



Identité™

TECHNICAL MANUAL

NoPASS APPLICATION SERVER INSTALLATION

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**NoPass Application Server Installation
Technical Manual
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1. ABOUT THIS MANUAL

This chapter contains the following:

- **Purpose and scope**
- **Intended audience**
- **Document conventions**

1.1. Purpose and scope

This manual provides a detailed overview of the installation of the NoPass application server for conducting password less authentication. You can find all the requirements needed for the successful installation and detailed systematic instruction on the commands and configuration you will need to run the program. This manual is designed to guide you in setting up the environment and successfully installing the NoPass application server.

Aside from the general information chapter provided in the document, the document has two integration setups, which are:

- **Web integration:** which describes “How to install NoPass application server for Web”. up the environment to run the NoPass application server alongside its demo portal (Preshop) for demonstration purposes, by setting up this environment you will be able to witness how the NoPass password less authentication works on a demo environment. For Web integration setup we have Test portal with configured API (Preshop) and you can download it from <https://www.identite.us/developers>.
- **RADIUS integration:** which is setting up the environment that you will be able to install the NoPass application server on your servers and connect it to your desired portal. Your user will have the ability to authenticate to your services by the help of the NoPass password-less authentication application.

This manual contains the following chapters:

- **About this manual.** Introduces the manual’s scope and proposes, targeted audience, and content organization.
- **Before you begin.** Describes the requirements and preparations needed for a successful installation of the NoPass application server.
- **NoPass Server deployment.** Gives a view on the infrastructure on a whole and provides information on how to install, launch, and stop the NoPass application server.
- **Server deployment to AWS using Terraform.** Describes the infrastructure to be installed with the terraform script.
- **NoPass RADIUS portal.** Describes the principles of work and procedure for registering and configuring the RADIUS portal provided by NoPass for seamless integration with your corporate RADIUS server.
- **Identity provider and Server Provider management.** Provides instructions for installing Keycloak Identity and setting up the NoPass extension.
- **Web portal management.** Explains how to integrate a WEB portal with the NoPass system.
- **Licensing.** Describes the procedure of licensure.
- **NoPass Integrations.** Provides instructions on how to integrate NoPass with your corporate applications, identity providers, and cloud repositories.

1.2. Intended audience



This manual is designed to be used by IT specialists with basic knowledge of computer networks, databases, operating systems, and the docker container software.

To learn more about our product, visit us at <https://www.identite.us/>.

If you need additional support, email Identité at support@identite.us.

1.3. Document Conventions

The following guidelines present some specific conventions used in this manual.

ELEMENT	DESCRIPTION
	Note—Additional information about a subject.
	Warning—Indicates a potential obstacle or condition requiring special attention.
\	Used as a line break. Do not type.
<...>	Used to denote placeholders.
Save	Names of buttons, windows, menu items and other program interface elements.
sudo	Code samples, including keywords and variables within text.
Prerequisites	Cross-references to the document chapters or internal hyperlinks.
https://dev.mysql.com/	Cross-references to external hyperlinks to web pages.

2. BEFORE YOU BEGIN

This chapter contains the following:

- [Prerequisites](#)
- [System requirements](#)
- [Prepare virtual machine](#)

2.2. Prerequisites

To successfully install NoPass, make sure you have the following:

- 1) An SSL certificate signed by Public Certification Authorities (NOT a self-signed certificate).
- 2) Access to the NoPass application server from an external network (Assign a public IP address or set up port forwarding or proxy ports to the Virtual Machine where the NoPass application server will be launched).
- 3) A database.
- 4) Internet access for the NoPass application and mobile devices.

What to read next

[System requirements](#)

[Prepare virtual machine](#)

2.3. System requirements

HARDWARE REQUIREMENTS



Note: These hardware requirements are provided for running one instance. Resources will need to increase as the load on the instance.

- CPU: 1 core or higher
- RAM: 2 GB or more
- HDD: at least 2 GB of free space

SOFTWARE REQUIREMENTS

The application server is delivered as a docker image. It can run on any server with an existing Docker engine. For more information about the operating systems supported by Docker, see the [Docker website](#).

- Docker Engine version 19.03.0 or higher
- Docker Compose tool version 1.24.0 or higher

ADDITIONAL SERVICES

To collect and store structured data you must have a database.

Supported databases:

- MySQL
- PostgreSQL
- MS SQL

CERTIFICATE REQUIREMENTS

Developing trust between two entities is established via the Secure Socket Layer (SSL) and SSL certificates. The purpose of SSL and certificates is encryption and identification to ensure that the communication exchange between the two parties is secure and trustworthy.

- SSL certificate for domain validation. You must use certificates signed by Public Certification Authorities.



Warning: Make sure you have included the intermediate and root CAs into the public part of certificate.



Warning: DO NOT SUPPORT a self-signed certificate.

NETWORK REQUIREMENTS

Mobile phone requirements

The mobile phone must have internet access to receive Push Notifications.

If you have a firewall to restrict traffic to or from the Internet, you need to configure it to allow mobile devices to connect with Firebase Cloud Messaging (Push service) for devices on your network to **receive messages**.

Ports to open for **incoming messages**:

- 5228
- 5229
- 5230
- 443

For outgoing connections, FCM does not provide specific IPs because their IP range changes too frequently, and your firewall rules could get out of date impacting your users' experience. Ideally, you will whitelist ports 5228-5230 with no IP restrictions. However, if you must have an IP restriction, you should whitelist all of the IP addresses in the IPv4 and IPv6 blocks listed in Google's [ASN of 15169](#). This is a large list, and you should plan to update your rules monthly. Problems caused by firewall IP restrictions are often intermittent and difficult to diagnose.

Choose one of these IP configurations to allow outgoing connections (option #1 is preferred):

- No IP restrictions
- All IP addresses contained in the IP blocks listed in Google's [ASN of 15169](#). Do not forget to update this at least once a month.

For more information about Firebase Cloud Messaging, see [About FCM messages](#).

NoPass server requirements

The NoPass server needs Internet access to communicate with third party services. If you have a firewall to restrict traffic to or from the Internet, you need to open the following ports:

For **incoming connections**:

Whitelist the following default ports:

- 443 (HTTPS)
- 1812 (RADIUS authentication)
- 1813 (RADIUS accounting)

For **outgoing connections**:

Whitelist the following ports:

- 53 (DNS)
- 80 (HTTP)
- 443 (HTTPS)
- 25,465 or 587 (SMTP)
- 1812 (RADIUS authentication)
- 1813 (RADIUS accounting)

To use other ports for these protocols, open them.

2.4. Prepare virtual machine

You can use various operating systems for the application that supports Docker installation. We recommend using the Ubuntu Server, which is a variant of the standard Ubuntu you already know, tailored for networks and services that brings along a high technical stability.

This guide describes how to deploy to the Linux platform and Windows platform.

Workflow

- 1) [Install OS](#)
- 2) [Allow firewall ports](#)
- 3) [Create DNS records](#)
- 4) [Install docker and docker-compose tool](#)
- 5) [Install and configure a database server](#)

2.4.1. Install OS

This documentation shows how to deploy NoPass application to Linux and Windows platforms. Specifics screenshots and examples will refer to **Ubuntu Server 18.04** and **Windows 10 Professional**

For Ubuntu Server installation instructions, see [the Ubuntu official tutorial](#).

For Windows 10 installation guide, see [official Windows site](#).

What to read next

[Allow firewall ports](#)

2.4.2. Allow firewall ports

After that, you have to open the required ports preinstalled on the virtual machine. For information about the list of ports, see Network requirements at [Before you begin](#).

LINUX PLATFORM

- Ubuntu uses UFW to protect the system.

For more information about opening ports on the UFW, see [the official Ubuntu community forum](#).

You can disable UFW as well by running the following command:

```
$ sudo ufw disable
```

WINDOWS PLATFORM

- Windows 10 uses Windows Firewall to protect the system.

For more information about opening ports on Windows Firewall, see [Windows Firewall Technologies](#).

What to read next

[Create DNS records](#)

2.4.3. Create DNS records

You will have to create DNS records type A, which will point to Reverse Proxy server.

You can use the Reverse proxy server you already have. For demo purposes we provide a configured proxy server as a Docker image.

Procedure

- 1) To find out the public address of the server, run the following command:

LINUX PLATFORM

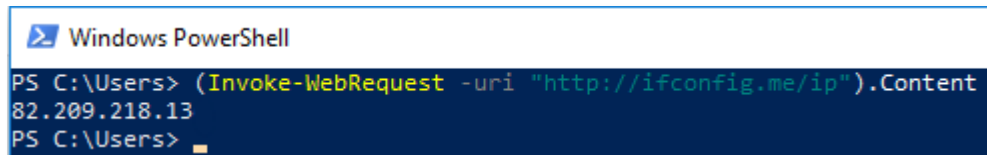
```
$ dig +short myip.opendns.com @resolver1.opendns.com
```

A successful result is as follows:

```
[root@ip-172-28-16-143 ec2-user]# dig TXT +short o-o.myaddr.l.google.com @ns1.google.com
"35.173.198.172"
[root@ip-172-28-16-143 ec2-user]#
```

WINDOWS PLATFORM

```
$ (Invoke-WebRequest -uri "http://ifconfig.me/ip").Content
```



```
Windows PowerShell
PS C:\Users> (Invoke-WebRequest -uri "http://ifconfig.me/ip").Content
82.209.218.13
PS C:\Users>
```

What to read next

[Install docker and docker-compose tool](#)

2.4.4. Install docker and docker-compose tool



Note: If you use the Linux platform you can skip this section and go to [Install the NoPass application server](#) to install the required tools automatically.

The NoPass application server is delivered as a container image. To deploy it, you should have a Docker Engine to run Docker containers and the Docker-Compose tool to run multi-containers.

Before you begin

- 1) Uninstall older version if it is less than required:

LINUX PLATFORM

```
$ sudo apt-get remove docker docker-engine docker.io containerd runc
```

WINDOWS PLATFORM

To uninstall Docker Desktop from Windows machine:

- a. From the **Windows Start** menu, select **Settings > Apps > Apps & features**.
- b. Select **Docker Desktop** from the **Apps & features** list, and then select **Uninstall**.
- c. Click **Uninstall** to confirm your selection.

Procedure

LINUX PLATFORM

Download a new version of Docker Desktop for Linux from [Docker hub](#) and install it. It contains Docker and Docker-compose tools.

For installation instructions, see [Install Docker Engine](#).

WINDOWS PLATFORM

Download a new version of Docker Desktop for Windows from [Docker hub](#) and install it. It contains Docker and Docker-compose tools.

For installation instructions, see [Install Docker Engine](#).

What to read next

[Install and configure a database server](#)

2.4.5. Install and configure a database server

The application requires a database to store and collection data.

If you do not have an installed database server, install and configure one of the following:

- MySQL — For installation instructions, see [MySQL documentation page](#).
- PostgreSQL — For installation instructions, see [the PostgreSQL manual](#).
- Microsoft SQL — For installation instructions, see [the SQL Server installation guide](#).

What to read next

[NoPass Server deployment](#)

3. NoPASS SERVER DEPLOYMENT

This chapter contains the following:

- [Infrastructure schemes](#)
- [Install the NoPass application server](#)
- [Stop the NoPass application server](#)
- [Update the application server](#)

3.1. Infrastructure schemes

Web portal integration scheme

Web portal integration scheme shows the location of our NoPass server in the network structure and the different connections between the NoPass server and its Mobile application with the different elements of your network to provide you the ability to authenticate your users with the help of NoPass.

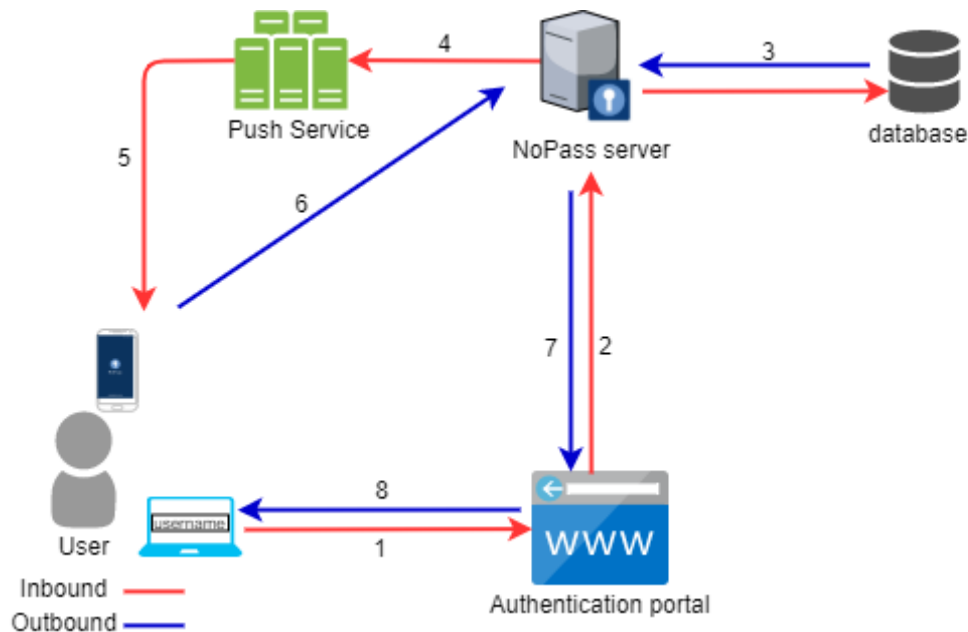


Figure 1. Web Portal Integration Scheme

- 1) Initiation of authentication for the application.
- 2) Authentication portal sends an authentication request to the NoPass application server.
- 3) The NoPass server checks the user in the database.
- 4) Server generates and sends push requests to the Push service.
- 5) The push service receives the push request and sends a notification to the user device.
- 6) NoPass mobile application sends the authentication response from the user device to the NoPass application server.
- 7) The NoPass server sends an authentication response to the Authentication portal.
- 8) Access to the service is provided or not.

RADIUS integration scheme

RADIUS integration scheme: here you can see how the NoPass server acts a RADIUS proxy server, its location in the network structure and different connections between the NoPass server and its Mobile application with the different elements of your network.

The NoPass server works as a proxy server between your corporate RADIUS server and a RADIUS client. It means that when a user of your corporate Network tries to access WiFi, OpenVPN, RDP, or any other client integrated with your corporate Network, the request goes to the NoPass server first. The NoPass server then requests approve from the corporate RADIUS server. If the user is present in the RADIUS server database, the request is approved and the NoPass server sends a push notification to the user's mobile. When the push notification is accepted, the NoPass server sends the response to the RADIUS client. After that, the RADIUS client grants access to the user.

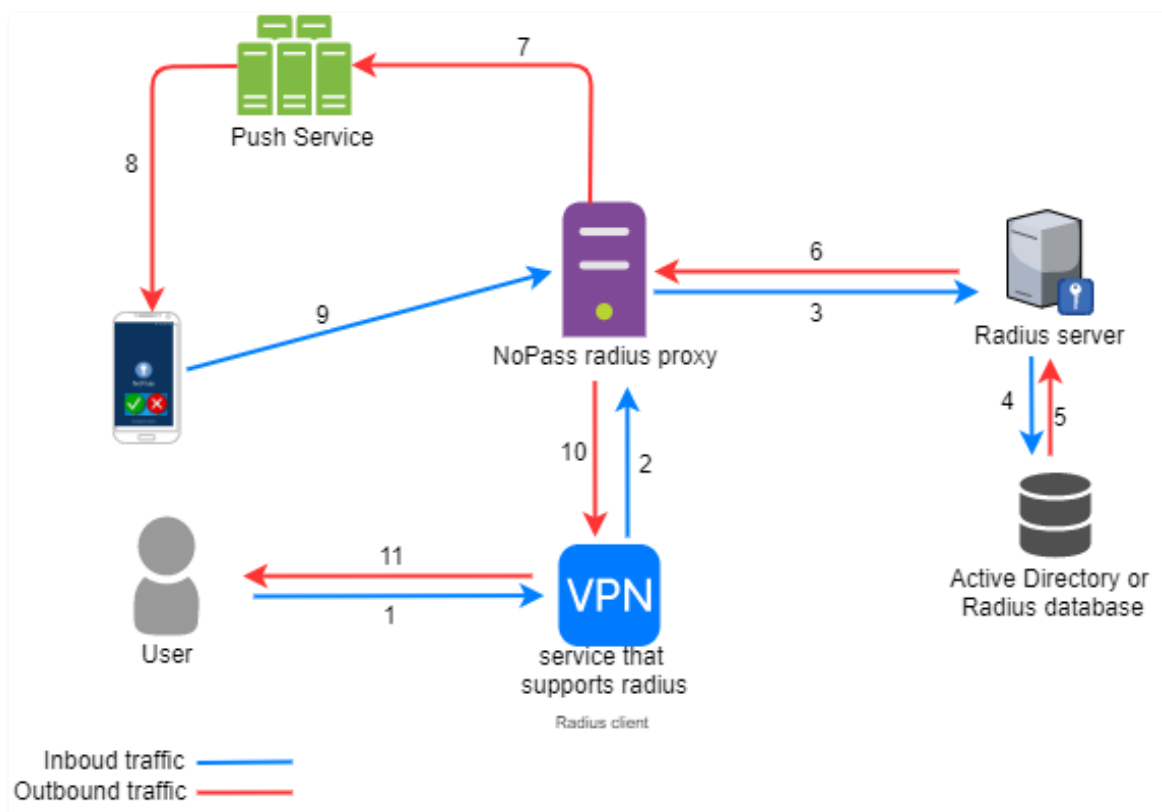


Figure 2. RADIUS Integration Scheme

- 1) Initiating primary authentication to the application or service.
- 2) The application or server sends an authentication request to the NoPass proxy server.
- 3) The NoPass proxy server redirects the authentication request to the RADIUS server.
- 4) The RADIUS server does primary authentication.
- 5) NoPass server intercepts the response from the RADIUS server and secondary authentication via NoPass RADIUS proxy.
- 6) NoPass server generates and sends a push request to the Push service.
- 7) The Push service receives the push request and sends notification to the user device.

- 8) NoPass mobile application sends authentication response from the user device to the NoPass RADIUS proxy.
- 9) The NoPass RADIUS proxy sends an authentication response to the application or service.
- 10) Access to application/service is provided or not.

SSO-integration scheme

This authentication scheme shows how SSO clients are authenticated using NoPass. A user browses the page they want to get access to. Then Keycloak checks whether the user is authenticated or not, and if yes, logs them in to the portal or redirects them for authentication to the NoPass.

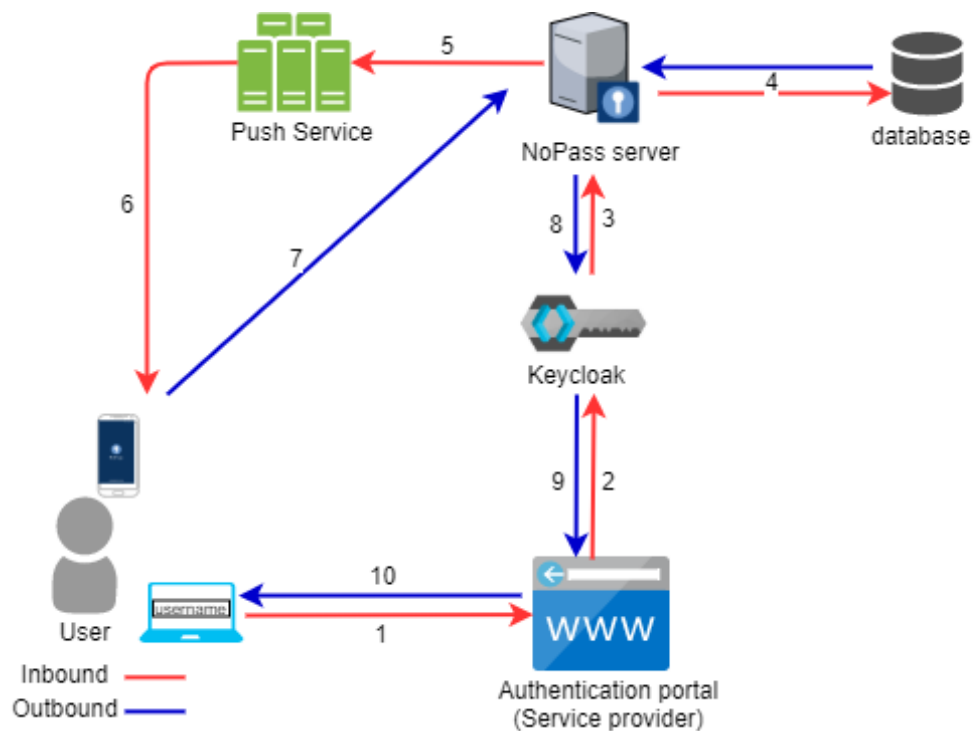
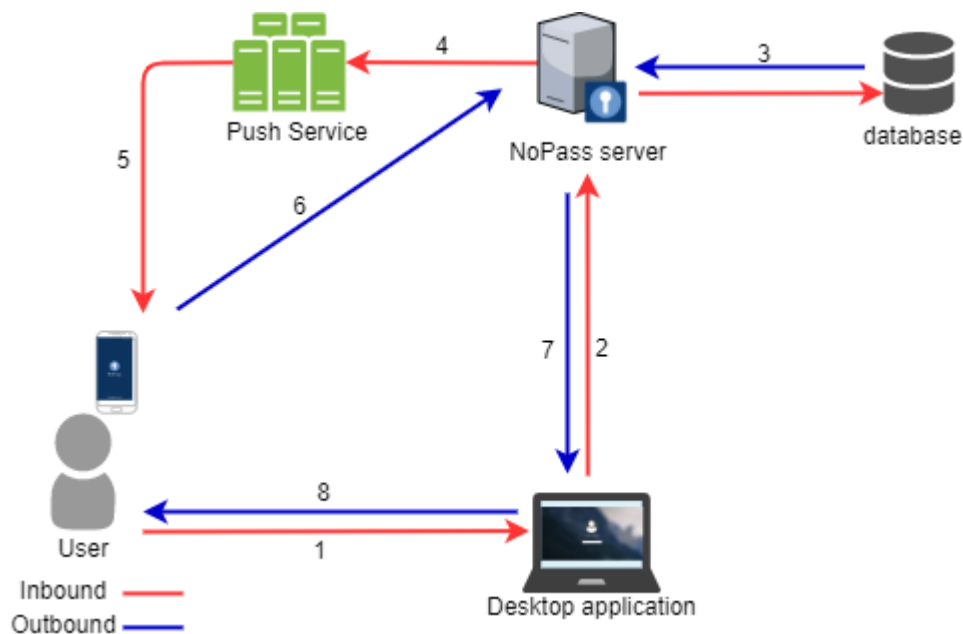


Figure 3. IDP Integration Scheme

- 1) Initiating primary authentication to the application or service with SSO.
- 2) The Service provider redirects the user's browser to send a token that contains information about the user to Keycloak.
- 3) Keycloak checks to see whether the user has already been authenticated and sends a request to NoPass.
- 4) If the user has not logged in, they will be prompted to enter their username and authenticate via NoPass.
- 5) NoPass server generates and sends a push request to the Push service.
- 6) The Push service receives the push request and sends a notification to the user device.
- 7) NoPass mobile application sends an authentication response from the user device to the NoPass RADIUS proxy.
- 8) NoPass sends a token back to Keycloak with a response message.
- 9) Keycloak receives the response message and authenticates or not.
- 10) The user is granted access to the Service Provider.

NoPass Desktop Unlock integration scheme

The following scheme describes the process of getting an access to a Windows computer using NoPass Desktop Unlock.



- 1) Initiation of authentication for the application.
- 2) The NoPass desktop application sends an authentication request to the NoPass application server.
- 3) The NoPass server checks the user in the database.
- 4) The server generates and sends push requests to the push service.
- 5) The push service receives the push request and sends a notification to the user device.
- 6) NoPass mobile application sends the authentication response from the user device to the NoPass application server.
- 7) The NoPass server sends an authentication response to the Authentication portal.
- 8) Access to the service is provided or not.

What to read next

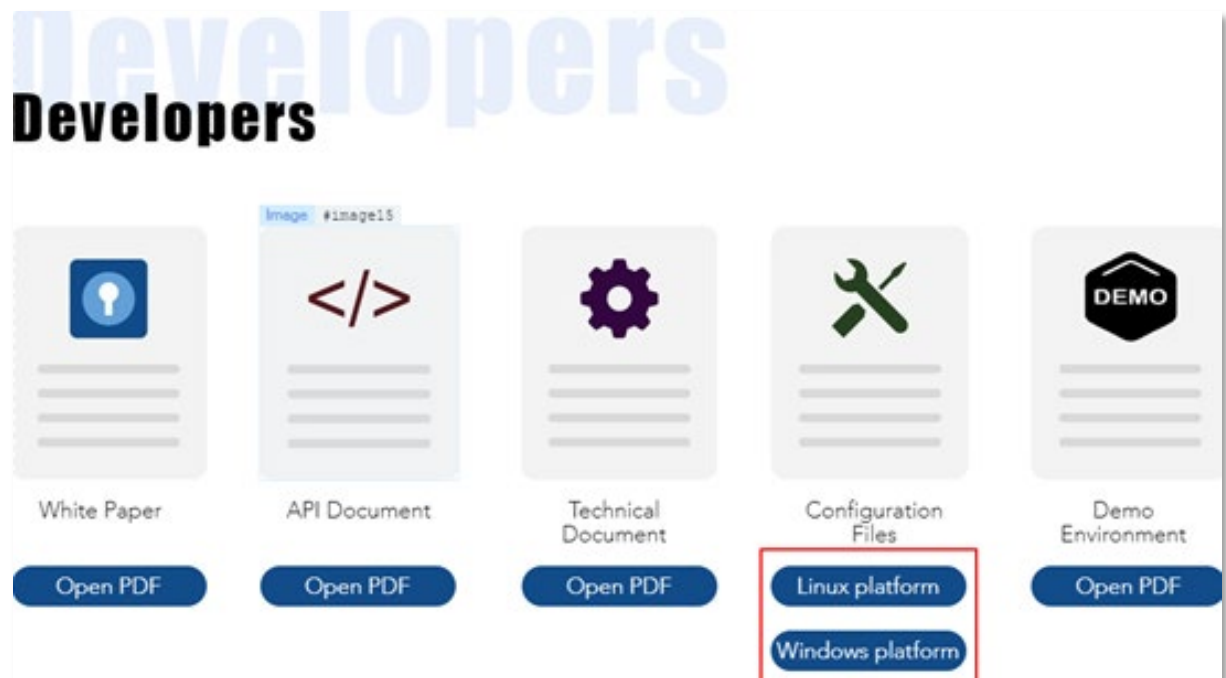
[Install the NoPass application server](#)

3.2. Install the NoPass application server

We provide preconfigured configuration files to help you install the NoPass application server.

Before you begin

- Download the configuration files for your platform from [the Identity™ website](#).



Note: The login and password are sent to you by our sales team.

Procedure

LINUX PLATFORM

- 1) Copy the link for Linux platforms, download the archive to your server, and unzip.

```
$ curl -LOJ https://download\_link (change the link)
```

Unpack the archive:

```
$ tar -xzf NoPass.tar.gz
```

Unpacked files look as follows:

```
root@bionic64:~# tar -xzf nopass.tar.gz
nopass.bash.script/
nopass.bash.script/variables.env
nopass.bash.script/install.sh
nopass.bash.script/templates/
nopass.bash.script/templates/nginx/
nopass.bash.script/templates/nginx/nginx_preshop.tpl
nopass.bash.script/templates/nginx/nginx_main.conf
nopass.bash.script/templates/nginx/nginx_nopass.tpl
nopass.bash.script/templates/composes/
nopass.bash.script/templates/composes/compose_demo.tpl
nopass.bash.script/templates/composes/compose_prodnginx.tpl
nopass.bash.script/templates/composes/compose_prod.tpl
root@bionic64:~#
```

- 2) Open the variable file **variables.env** and fill it according to your needs.

For detailed information about environment variables, see [Appendix 1. NoPass server environment variables](#).



Note: For demo purposes, the database will be created in the container. For production, create a database on another instance by yourself.

- 3) Copy SSL certificate (Public and Private keys) in this directory
- 4) Set execution permission to **./install.sh** script

```
$ sudo chmod +x ./install.sh
```

- ### 5) Launch the script and follow the commands

```
$ sudo ./install.sh
```

WINDOWS PLATFORM

- 1) Copy the link for Windows platforms, download the archive to your server, and unzip.

```
$ Invoke-WebRequest -Uri https://download\_link -OutFile c:\NoPass.tar.gz (change the link)
```

Unpacking the archive using 7zp. Unpacked files look as follows:

```
PS C:\Users\Administrator\NoPass> tree /f
Folder PATH listing
Volume serial number is 2E61-1B32
C:..
|   docker-compose.yml
|   nopass.env
|
|_  nginx
    |   nginx.conf
    |
    |_  certs
    |   conf.d
    |       nopass.conf
    |
    |_  nopass.conf
```

File description:

- **nopass.env**—environment variable file for the NoPass application server.
 - **docker-compose.yml**—a configuration file to run multi-container applications.
 - **nginx/conf.d/nopass.conf**—nginx server context.
 - **nginx/nginx.conf**—default nginx configuration file.
- 2) Change variables in the **nopass.env** configuration file. For reference information about the environment variables, see [Appendix 1. NoPass server environment variables](#).
 - 3) Open the Nginx configuration file and path to the NoPass application server.

```
server nopass:80;
```



Warning: Do not touch this directive if you want to use the installed Nginx server with the NoPass server automatically.

- 4) Change the DNS name that you created during creating DNS records.

```
server_name nopass.example.com;
```

- 5) Copy the SSL certificate and key in the directory with the nginx server, change the path for them. If you use our Nginx server, copy the certificate to nginx/certs and change certificate names.

```
ssl_certificate      /etc/certs/nopass.crt;
ssl_certificate_key  /etc/certs/nopass.key;
```

- 6) Change the **docker-compose.yml** configuration file if you use the NoPass application server without nginx.



Note: If you want to use your own Reverse proxy server, make sure that it supports TLS 1.3.

- 7) Replace the row with expose port to row with publish port for NoPass directive. Replace the following:
 - a. From the expose port in the Docker bridge network.

```
expose:
  - 80
```

- b. To the publish container's port on the host. You can use any other free port instead of 8001.

```
ports:
  - 8001:80
```

If you want to use NoPass MFA product for RADIUS authentication you must be open RADIUS ports for the container with command:

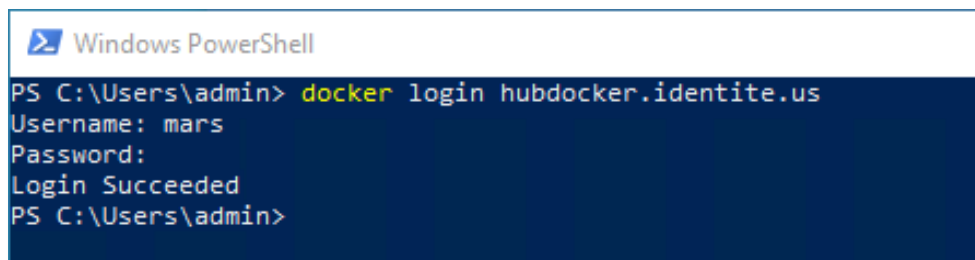
ports:

- 8001:80
- 1812:1812/udp
- 1813:1813/udp

- 8) Log in to an Identite docker registry hubdocker.identite.us. Enter the credentials that we provided you.

```
$ docker login hubdocker.identite.us
```

Successful log into the Identité™ Docker registry looks as follows:



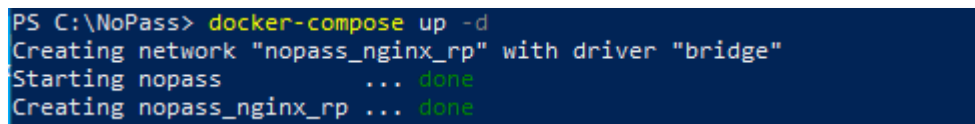
```
Windows PowerShell
PS C:\Users\admin> docker login hubdocker.identite.us
Username: mars
Password:
Login Succeeded
PS C:\Users\admin>
```

- 9) Enter the directory with the application installed. Do one of the following:

To start the production environment with Nginx server, run the following command:

```
$ sudo docker-compose up -d
```

A successful result is as follows:

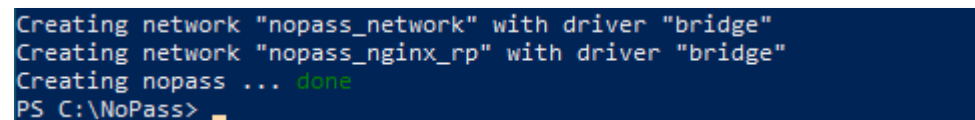


```
PS C:\NoPass> docker-compose up -d
Creating network "nopass_nginx_rp" with driver "bridge"
Starting nopass ... done
Creating nopass_nginx_rp ... done
```

To start the production environment without Nginx server, run the following command:

```
$ sudo docker-compose up -d nopass
```

A successful result is as follows:



```
Creating network "nopass_network" with driver "bridge"
Creating network "nopass_nginx_rp" with driver "bridge"
Creating nopass ... done
PS C:\NoPass>
```

- 10) Check the running application in the browser using the following link:

https://SERVER_URL:port/api/status

Server status output example:

```
errors: []  
▼ result:  
  0: "Database migration: Ok"  
  1: "Database tables: Ok"
```

What to read next

[Stop the NoPass application server](#)

3.3. Stop the NoPass application server

Procedure

- 1) To stop the application, run the command:

```
$ sudo docker-compose down
```

A successful result for the environment with the Nginx server is as follows:

LINUX PLATFORM

```
root@ubuntu01:~/NoPass/NoPass# docker-compose down
Stopping nopass_nginx_rp ... done
Stopping nopass ... done
Removing nopass_nginx_rp ... done
Removing nopass ... done
Removing network nopass_network
Removing network nopass_nginx_rp
root@ubuntu01:~/NoPass/NoPass# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
```

WINDOWS PLATFORM

```
Administrator: Windows PowerShell
PS C:\NoPass> docker-compose down
Stopping nopass_nginx_rp ... done
Stopping nopass ... done
Removing nopass_nginx_rp ... done
Removing nopass ... done
Removing network nopass_network
Removing network nopass_nginx_rp
PS C:\NoPass>
```

What to read next

[Update the application server](#)

3.3. Update the application server

Procedure

To update the application server, do the following:

- 1) Pull a new image from the repository.
- 2) Restart the server.
- 3) Run one of the following commands:
 - For the environment with the Nginx server:

```
$ sudo docker-compose pull && docker-compose up -d
```

- For the environment without the Nginx server:

```
$ sudo docker-compose pull && docker-compose up -d nopass
```

What to read next

[Server deployment to AWS using Terraform](#)

4. NoPASS SERVER DEPLOYMENT TO AWS USING TERRAFORM

This chapter contains the following:

- [Prerequisites](#)
- [Infrastructure scheme](#)
- [Preparation](#)

4.1. Prerequisites

To successfully deploy NoPass on AWS, make sure you have the following:

- 1) Subscription to one of the NoPass services.
For more information about available services, see [the Amazon marketplace](#).
- 2) An IAM user created with Administrative permissions. Access generated and a secret key.
For instructions, see [the Amazon knowledge center](#).
- 3) An SSL certificate issued by AWS.
For instructions on how to request a public certificate, see the [Amazon AWS Certificate Manager User Guide](#).
- 4) An SSH key generated.
For the SSH key generation instructions, see [Generating a new SSH key](#) at GitHub docs.
- 5) Terraform installed.
For instructions, see [Download Terraform](#) at Terraform Docs.

What to read next

[Infrastructure scheme](#)

4.2. Infrastructure scheme

The following scheme describes the infrastructure that will be installed using the terraform script. It contains the following main objects: VPC, security groups, instances, and databases. Besides, you can see the nonessential services that help to achieve certain security and flexibility. This scheme is relevant for deploying non-clustered infrastructure.

The VPC consists of three subnets: Public, Private, and Database. Public network has direct internet access via Internet Gateway. Private network has internet access via NAT instance that is located in the Public network. Database network does not have internet access.

NoPass server is located on the private network. It is started with the AWS ECS Service. Inbound traffic is routed to the server using AWS Application Load Balancer. It makes traffic termination from HTTPS into HTTP.

At the moment, the script supports only MySQL database installation, but the server supports MySql, PostgreSQL, MSSQL as well.

To improve security, only the networks and ports required for the application are open.

This scheme is relevant for deploying non-clustered infrastructure.

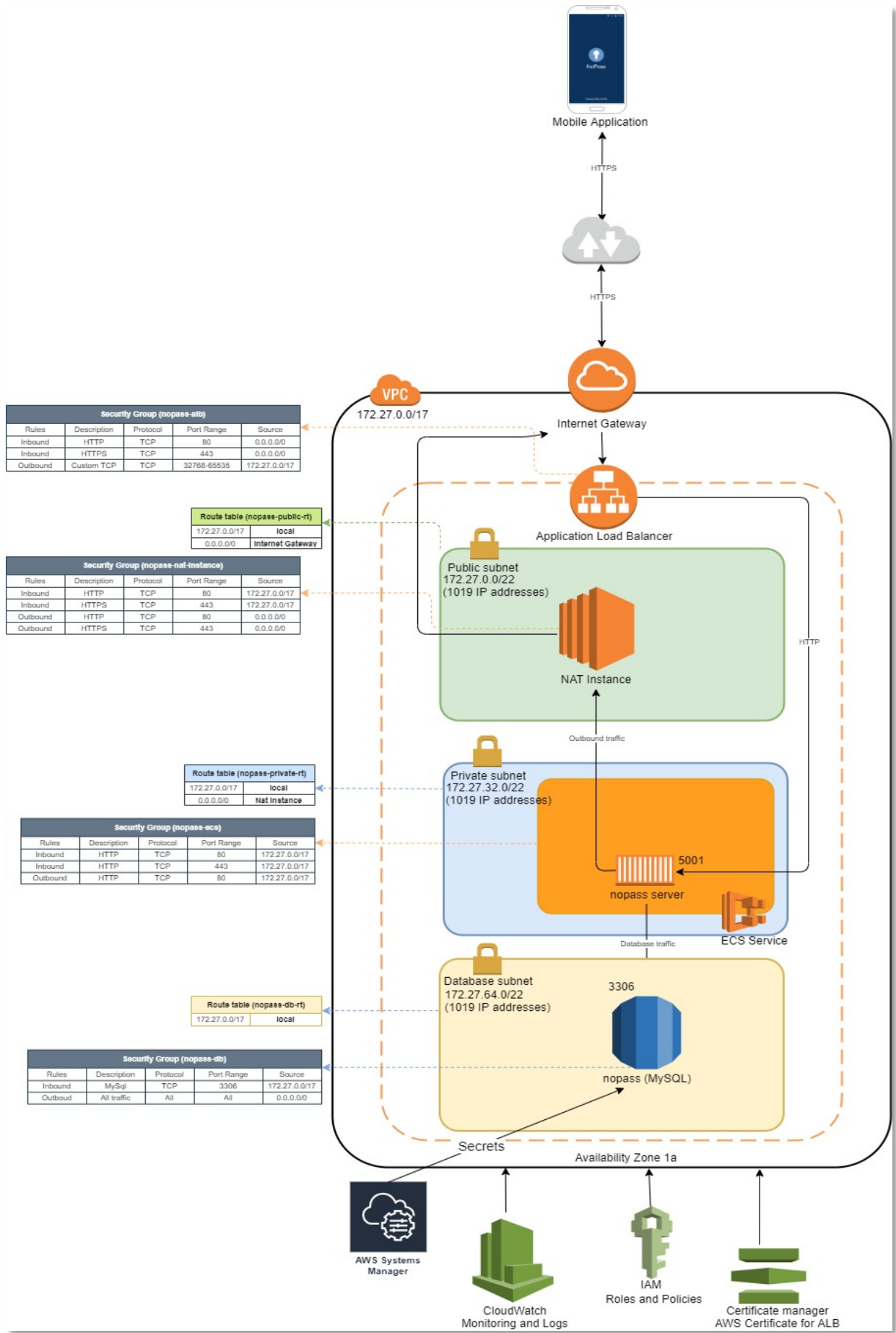


Figure 4. Infrastructure Scheme

What to read next

Preparation

4.3. Preparation

Procedure

- 1) Clone the repository with terraform code. Credentials to authenticate:

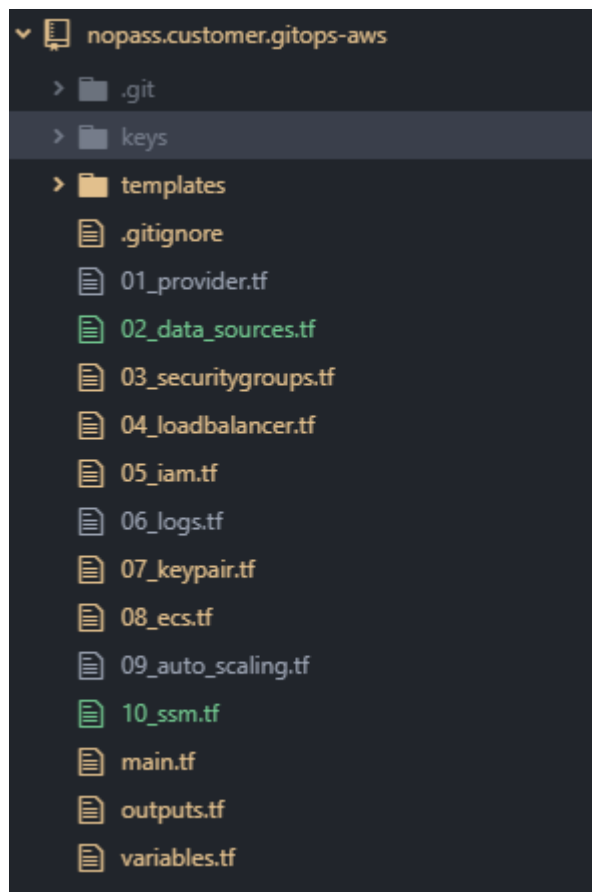
Username: nopass.guest02

Password: Cvsg25xE@r

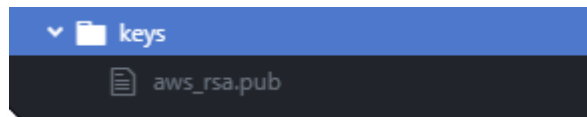
```
$ git clone http://bitgit.psa-software.com/Identite/nopass.customer.gitops-aws.git  
$ git checkout tags/v1.0.0 -b v1.0.0
```

```
senko@DESKTOP-2JR687P MINGW64 /d/MyProjects  
$ git clone http://bitgit.psa-software.com/Identite/nopass.customer.gitops-aws.git  
Cloning into 'nopass.customer.gitops-aws'...  
warning: redirecting to https://bitgit.psa-software.com/Identite/nopass.customer.gitops-aws.git/  
remote: Enumerating objects: 18, done.  
remote: Counting objects: 100% (18/18), done.  
remote: Compressing objects: 100% (17/17), done.  
remote: Total 18 (delta 0), reused 0 (delta 0), pack-reused 0  
Unpacking objects: 100% (18/18), 8.77 KiB | 147.00 KiB/s, done.
```

List of files in the repository:



- 2) Copy the SSH key that you generated previously to the keys folder with the name **aws_rsa.pub**.



- 3) Set environment variables for authentication in AWS. For more information about variables generating, see [Appendix 1. NoPass server environment variables](#). The access key and secret key should have been created earlier. Set the desired region. For example:

```
$ export AWS_ACCESS_KEY_ID=AKIAIOSFODNN7EXAMPLE
$ export AWS_SECRET_ACCESS_KEY=wJalrXUtnFEMI/K7MDENG/bPxrFc1YEXAMPLEKEY
$ export AWS_DEFAULT_REGION=us-east-1
```

- 4) Open the **variables.tf** file for more detailed settings or skip this step.
- 5) Initialize the project.

```
$ terraform init
```

```
senkoa@BYMINPC91 MINGW64 /d/git/nopass.customer.gitops-aws (master)
$ terraform init
Initializing modules...

Initializing the backend...

Initializing provider plugins...
- Using previously-installed hashicorp/template v2.2.0
- Using previously-installed hashicorp/aws v3.13.0
- Using previously-installed hashicorp/random v3.0.0

The following providers do not have any version constraints in configuration,
so the latest version was installed.

To prevent automatic upgrades to new major versions that may contain breaking
changes, we recommend adding version constraints in a required_providers block
in your configuration, with the constraint strings suggested below.

* hashicorp/random: version = "~> 3.0.0"
* hashicorp/template: version = "~> 2.2.0"

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
```

- 6) Run the infrastructure building simulation. Enter the following values:

- AWS Certificate domain name.
- Docker image path.

- EC2 instance type

For the AWS EC2 type list, see [Amazon EC2 Instance Types](#).

We recommend use t3.small < 200 RPS.

- EC2 memory limit. Specify the required memory limit for the container. For example: t3.small has 2GB memory, the limit on the container can set up at 1536.
- AWS region.

For the AWS regions list, see [What is Amazon EC2](#)

```
$ terraform plan
```

If you get a successful result then you can run with the key apply:

```
$ terraform apply
```

Approximate setting time: 10 min

The result is as follows:

```
Outputs:
alb_hostname = nopass-1807382529.us-east-1.elb.amazonaws.com
db_password  = pMnzHa28t0BU7fZQ
db_password_arn = arn:aws:ssm:us-east-1:101259527774:parameter/nopass/prod/database/password
```

Please use these values for the following purposes:

- alb_hostname: create a DNS CNAME record to this load balancer url
- db_password: password to connect to the database
- db_password_arn: password storage path in the AWS secrets

7) To destroy infrastructure, run the command:

```
$ terraform destroy -auto-approve
```

What to read next

[NoPass RADIUS portal](#)

5. LICENSING

We offer licenses for the following integrations: web, RADIUS, SSO, UNLOCK, and SDK. You need to get a license prior to registering a portal or a service.



Warning: DO NOT begin registering a portal before getting the license!

Getting the license

- 1) Send a license request to sales@identite.us.

Make sure your request contains the following information: service type, portal domain name, service domain name. In the table below, see the example request depending on a certain NoPass product.




REQUEST INFORMATION	NoPass™ CONSUMER	NoPass™ SDK	NoPass™ EMPLOYEE MFA	NoPass™ DESKTOP UNLOCK	NoPass™ EMPLOYEE SSO
Service type	Portal service	SDK	RADIUS service	Unlock	Identity provider
Portal domain name	<code><portal.example.com>:port</code>	<code><portal.example.com>:port</code>	-	-	<code>https://{Keycloak URL}/auth/realms/{Realm}</code>
Service domain name	<code>nopass.<example.com>:port</code>	<code>nopass.<example.com>:port</code>	<code>nopass.<example.com>:port</code>	<code>nopass.<example.com>:port</code>	<code>nopass.<example.com>:port</code>
Android app package name	N/A	+	N/A	N/A	N/A
iOS app bundle ID	N/A	+	N/A	N/A	N/A

If you want to purchase a product with SDK, specify the information about the Android app package name/iOS app bundle ID in your request.


- 2) Check your email for the message from the NoPass team. In this email, you will receive your license.
- 3) Copy the license file. You will need this file during the portal registration.

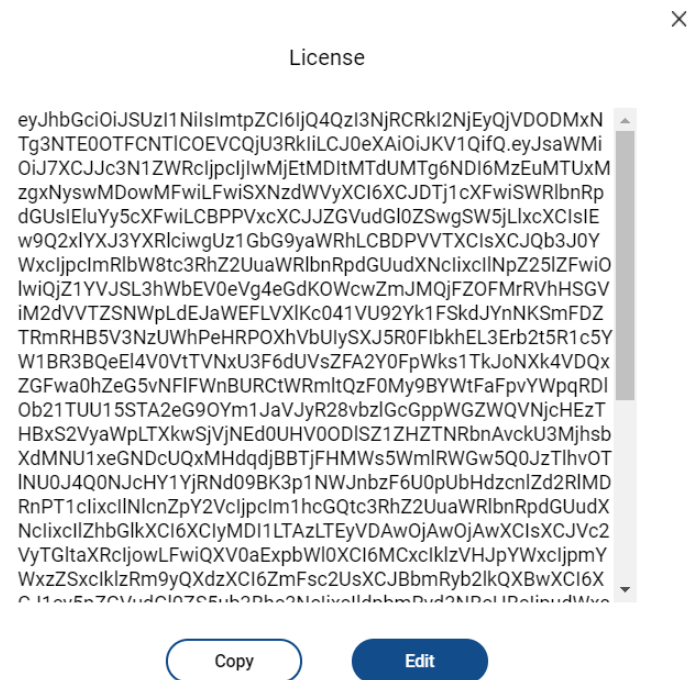
Managing the license



- 1) Go to NoPass Admin Panel.
- 2) On the **Settings** tab, in the **General information** group, do one of the following:

License: eyJhbGciOiJSUzI1NiIsImtpZCI6I...   

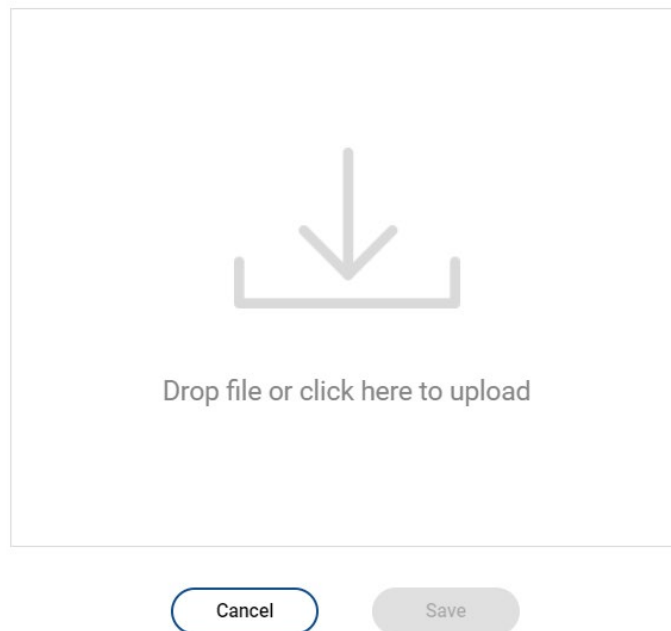
Activated:	Feb 17, 2021
Valid Till:	Mar 12, 2025
User Limit:	0

- Click  **View** to view, copy or edit the license.



- click  **Copy** to copy the license text
- click  **Edit** to update your license and drag the new license to the window.

License

A modal dialog box titled "License" with a close button (X) in the top right corner. The main area contains a large gray arrow pointing down into a rectangular box, with the text "Drop file or click here to upload" centered below it. At the bottom, there are two buttons: "Cancel" (outlined) and "Save" (solid gray).

- 3) Click **Save**.
Your license is updated.

What to read next[NoPass Integrations](#)

6. NoPass RADIUS PORTAL

NoPass RADIUS portal is an intermediate member that provides connection between the NoPass server and your corporate radius server to use NoPass as a 2FA when accessing corporate radius clients like WiFi, VPN, RDP, etc.

This chapter contains the following:

- [How to register RADIUS portal](#)
- [How to configure RADIUS portal](#)
- [How to bind a User](#)

6.1. How to register RADIUS portal

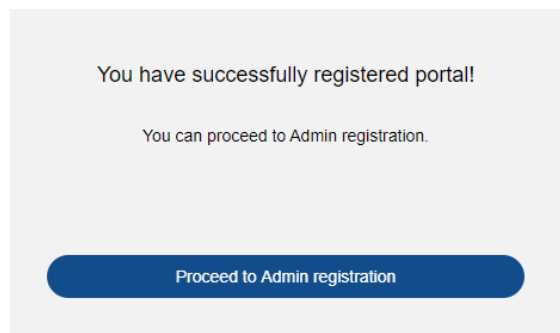
Procedure

- 1) To register the RADIUS portal, on the **Portal registration** page, set the following parameters and click **Register**:

Portal type	RADIUS server
Portal name	The portal name is displayed in this field
Admin login	By default, the admin login is <code><radiusadmin></code> . To override this value, you can use the environment variable for the NoPass server. For more information about environment variables, see Appendix 1. NoPass server environment variables .
S-code	Admin password. The same as in the Admin login field. By default, it is <code><radiuspassword></code> .

- 2) On **Portal settings**, configure the settings and add the license file.

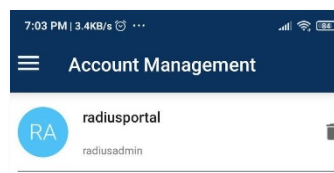
A successful result is as follows:



- 3) Click **Proceed to Admin registration** and scan the QR-code to link the account to your mobile application.



The result on your mobile phone is as follows:



What to read next

[How to configure RADIUS portal](#)

6.2. How to configure RADIUS portal

Procedure

To configure the RADIUS portal, do the following:

- 1) Log in to the RADIUS admin panel using the following link:

`https://SERVER_URL/#!/PortalName/admin/login`

- 2) On the RADIUS Admin panel, select RADIUS settings.

Portal settings **RADIUS settings**

General settings

RADIUS enabled: ☐

2FA timeout: 30 sec

Block Unverified users: ☒

Remote server settings

Server address: _____

Server authentication port: 1812

Server accounting port: 1813

Server secret: _____

Server timeout: 3000 msec

Remote clients

#	Name	Address

Add client

- 3) In the **RADIUS settings** tab, in the **General settings** group, configure the following parameters:
 - a. Select **RADIUS enabled**.
 - b. Set **2FA timeout**—confirmation timeout on a mobile device—less than the service connection timeout.
 - c. Select **Block Unverified users** to block connection for unverified users.
- 4) In the **Remote server settings** group, configure the following parameters:
 - a. Fill the **Server address** field.
 - b. Fill the **Server authentication port** field.
 - c. Fill the **Server accounting port** field.
 - d. In the **Server secret** field, enter the RADIUS server secret.
 - e. Set the **Server timeout** for connection timeout to RADIUS server.
- 5) In the **Remote clients** group, configure the following parameters:
 - a. **Name**—service display name.
 - b. **Address**—service address.

- c. **Secret**—service secret.
 - d. **Link**—link to the server user manual.
- 6) *Optional*. Select **Require additional decline** if needed.
- 7) To customize design of the RADIUS login page, configure the following parameters:
- a. In the **Login form** group, set **Form header**, **Introductory text**, and **Field names**.
 - b. In the **Final page** group, set **Text header**, **Final text**, **Client list**.

Login form	Username confirmation form
Form header: <input type="text" value="Log in to your account"/>	Form header: <input type="text" value="Confirm your username"/>
Introductory text: <input type="text" value="Please verify your account to register in the passwordless authentication system"/>	Introductory text: <input type="text" value="Please enter your username to register on the passwordless authentication system"/>
Field names: <input type="text" value="Username"/>	Username: <input type="text" value="Username"/>
<input type="text" value="Password"/>	
Final page	
Text header: <input type="text" value="You have successfully registered!"/>	
Final text: <input type="text" value="You can log in to one of the available clients:"/>	
Client list: <input type="text" value="It's a list of your Remote clients (look at the table above). If a client has a link, for users its name is shown like a link."/>	
Username confirmation form	
Email subject: <input type="text" value="Registration on the passwordless authentication system"/>	
Email text: <input type="text" value="Hello, For registration on the passwordless authentication system you should follow the link below. You will need to confirm your username, then scan a QR-code and follow the instructions. If you have any problems please contact your system administrator."/>	
Confirmation link: <input type="text" value="The link will be added to the email automatically for each user."/>	

Related topic

[Licensing](#)

What to read next

[How to bind a User](#)

6.3. How to bind a User

The RADIUS server checks that information is correct using authentication schemes such as PAP, CHAP or EAP. NoPass Proxy server supports the following RADIUS authentication protocols: PAP, CHAP, MS-CHAP, PEAP, EAP-MSCHAPv2.

There are two ways to bind a user to the NoPass server depending on the type of RADIUS authentication protocol.

Procedure 1

To bind a new user if the **PAP/CHAP/MS-CHAP/MS-CHAPv2** settings of your RADIUS server are enabled, do the following:

- 1) Register an administrator using the following link:

```
https://SERVER_URL/#/RADIUS-user-registration
```

Log in to your account

Please verify your account to register in the passwordless authentication system

Username *

radius01

Password *

.....

Register

The user registers by the link and the administrator can see it on the verified user page in the admin panel.

Dashboard Users Logs Settings

Verified users Unverified users

Filters

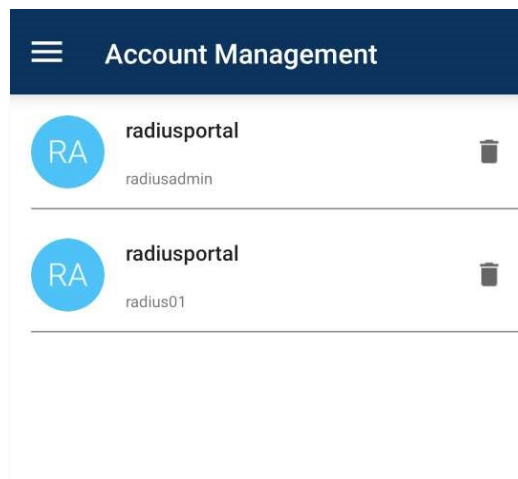
Login & ID

☐ All status ☐ Active ☐ Locked ☐ Inactive ☐ Blocked

Reset Search

Login	Status	OS	Version	Rooted/Jailbroken	Last Authorization
radius01	Active	android	10	No	08/17/2020, 2:11 PM
radiusadmin	Active	android	10	No	08/26/2020, 1:19 PM

Items per page: 20 1 - 2 of 2



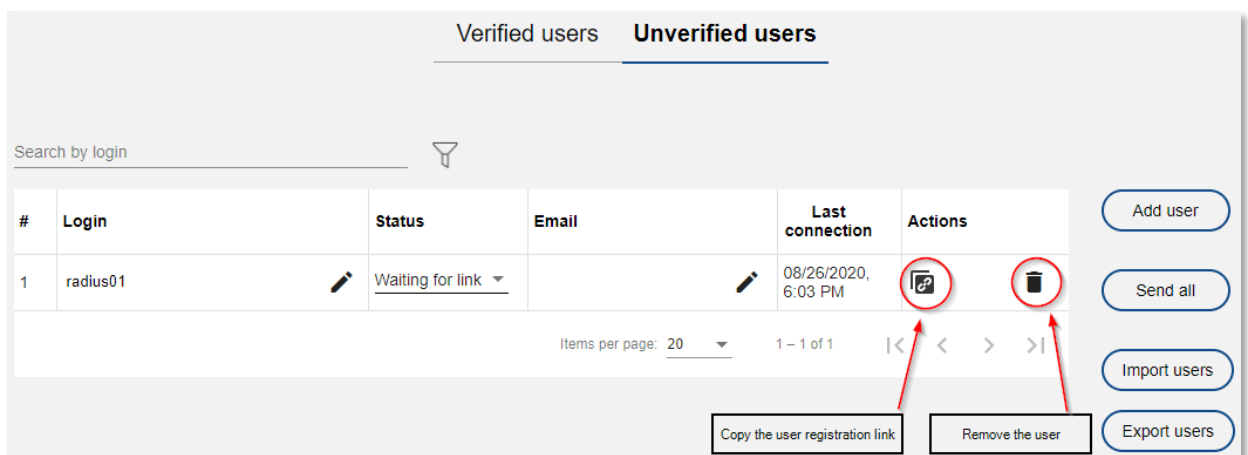
Procedure 2

To bind a new user with any RADIUS authentication protocol, do the following:

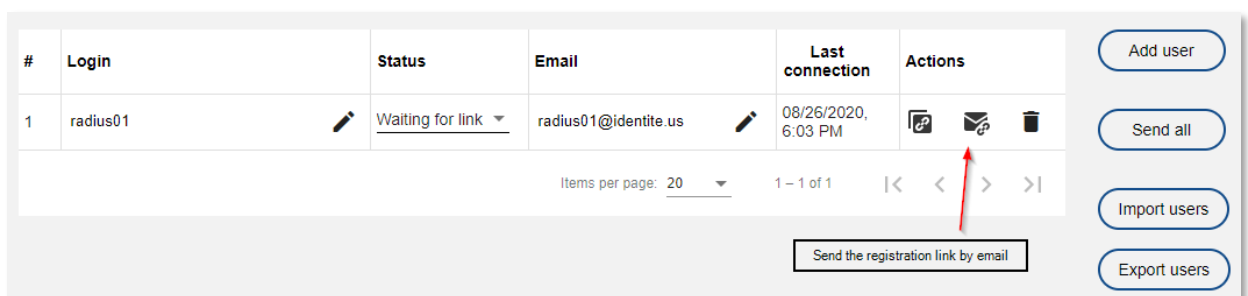
- 1) In the **Admin panel**, select **Block Unverified** users.



Note: NoPass can proxy all connections from RADIUS services to the RADIUS server. When the user connects for the first time, the **Block Unverified users** checkbox appears in the **Unverified users** tab of the **Admin panel**.



- 2) Send the unique registration link to the user. You can send it by email but you have to enter the email address for user.



- 3) *Optional.* You can import users from CSV.

```
radius02,radius02@identite.us  
radius03,radius03@identite.us  
radius04,radius04@identite.us  
radius05,radius05@identite.us  
radius06,radius06@identite.us
```

#	Login	Status	Email	Last connection	Actions
1	radius01	Waiting for link	radius01@identite.us	08/26/2020, 6:03 PM	
2	radius02	Waiting for link	radius02@identite.us		
3	radius03	Waiting for link	radius03@identite.us		
4	radius04	Waiting for link	radius04@identite.us		
5	radius05	Waiting for link	radius05@identite.us		
6	radius06	Waiting for link	radius06@identite.us		

Items per page: 20 1 – 6 of 6 < > >>

Add user
Send all
Import users
Export users

The user needs to follow the link and bind account to the NoPass Proxy server to change their status to verified users.

What to read next

Identity Provider and Service Provider management

7. IDENTITY PROVIDER AND SERVICE PROVIDER MANAGEMENT

This chapter contains the following:

- [Prerequisites](#)
- [Set up the NoPass extension](#)
- [Set up service providers with Keycloak](#)

7.1. Prerequisites

- 1) [Download](#) and [install](#) the Keycloak identity and access management application to integrate the NoPass application with the identity provider.
- 2) [Download](#) the extension and NoPass theme from the Identité Repository, and then do the following:
 - a. To install the extension, copy the downloaded files to the **\$keycloak_home/standalone/deployments** directory.
 - b. To install the theme, unzip the archive and copy the files to the **\$keycloak_home/themes/** directory.



To enter to the Identité Repository, use the credentials that you received from the Identité team by email.

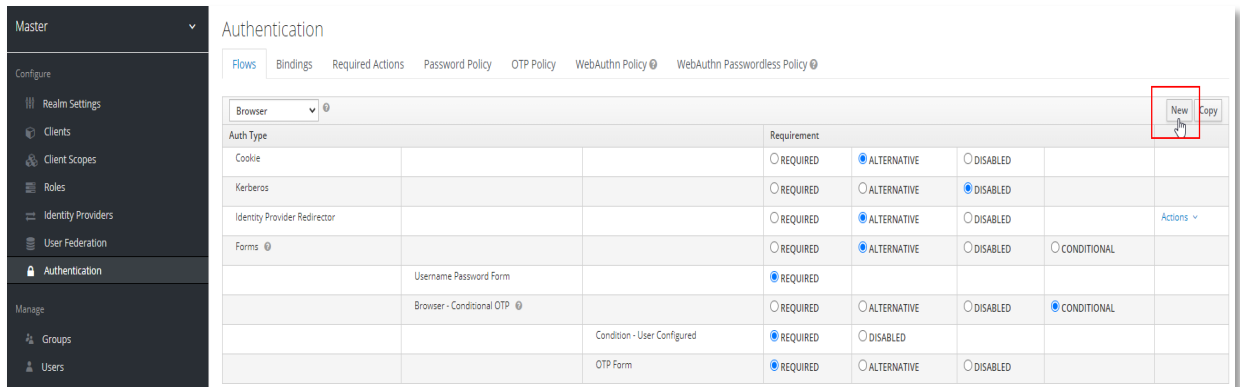
What to read next

[Set up the NoPass extension](#)

7.2. Set up the NoPass extension

Procedure

- 1) From the administrative console of your Keycloak server select a realm and click **New** to create a new Authentication flow.



- 2) To identify the flow, in the **Alias** field enter the alias name.



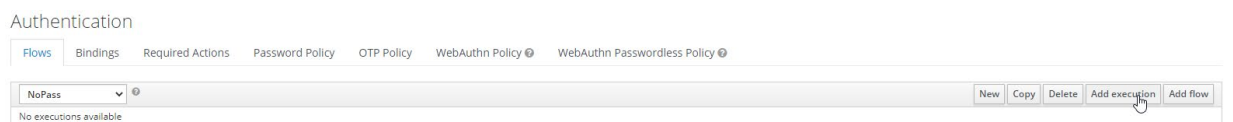
Note: Make sure that the **Alias** field is set to **NoPass**.

- 3) In the **Top Level Flow Type** box, select **generic**, and then click **Save**.

The screenshot shows the 'New Authentication Flow' form. The 'Alias' field is set to 'NoPass'. The 'Description' field contains 'NoPass authentication'. The 'Top Level Flow Type' dropdown is set to 'generic'. The 'Save' button is highlighted.

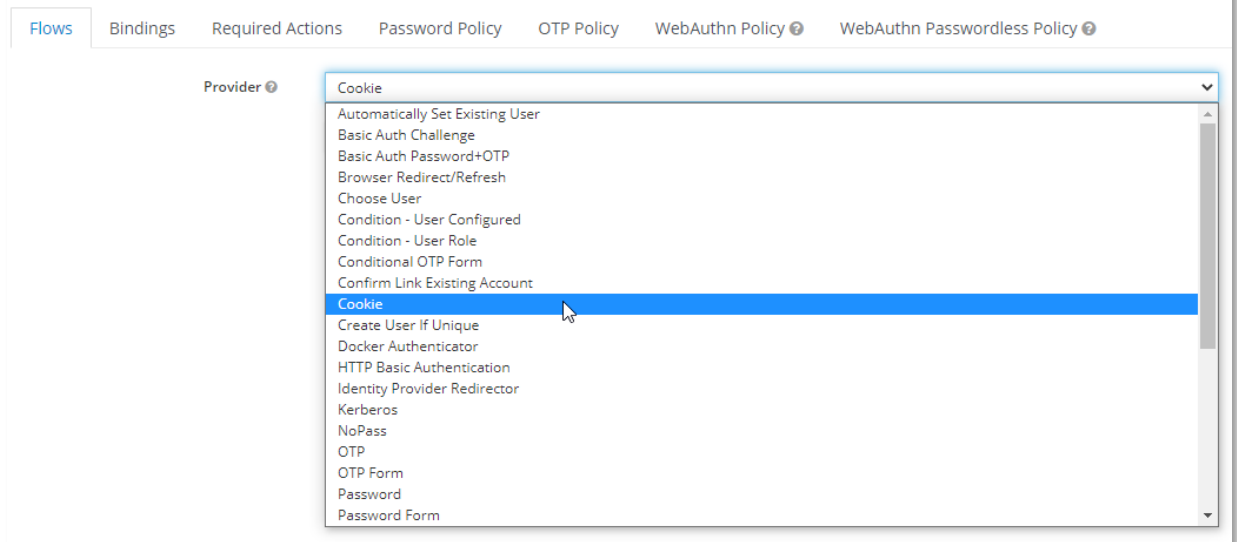
- 4) After you have successfully created the new flow, you need to add a new execution.

- 5) In the **Flows** tab, select **Add execution**.

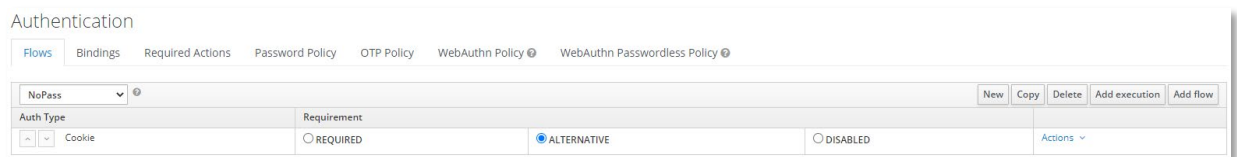


- 6) From the **Provider** list, select **Cookies**.

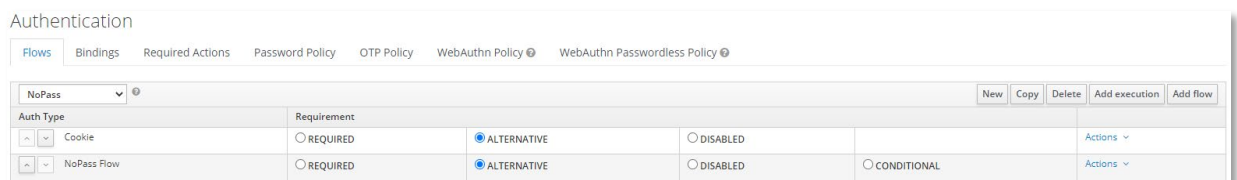
Create Authenticator Execution



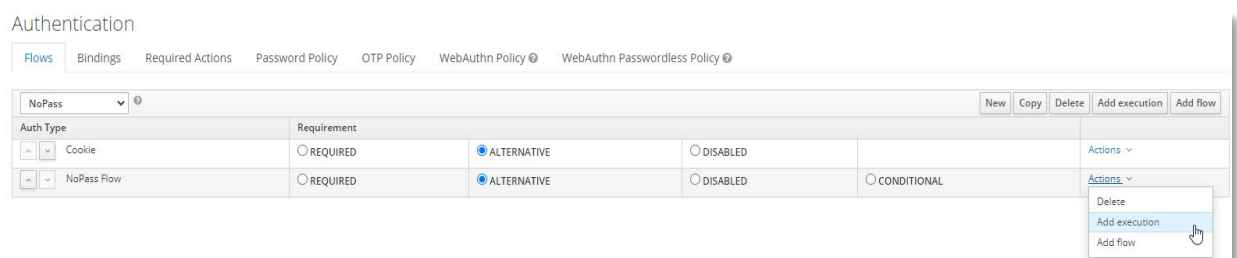
7) Select **ALTERNATIVE** to enable cookies as an alternative authentication method.



8) Add a new flow for NoPass Authentication and enable it as an alternative authentication method.



9) Under **Actions**, select **Add execution** to add the NoPass execution to the **NoPass Form** flow, and then select **REQUIRED**.



Create Authenticator Execution

Flows Bindings Required Actions Password Policy OTP Policy WebAuthn Policy WebAuthn Passwordless Policy

Provider

- Browser Redirect/Refresh
- Automatically Set Existing User
- Basic Auth Challenge
- Basic Auth Password+OTP
- Browser Redirect/Refresh
- Choose User
- Condition - User Configured
- Condition - User Role
- Conditional OTP Form
- Confirm Link Existing Account
- Cookie
- Create User If Unique
- Docker Authenticator
- HTTP Basic Authentication
- Identity Provider Redirector
- Kerberos
- NoPass**
- OTP
- OTP Form
- Password
- Password Form

Authentication

Flows Bindings Required Actions Password Policy OTP Policy WebAuthn Policy WebAuthn Passwordless Policy

NoPass

Auth Type	Requirement	Requirement	Requirement	Requirement	Requirement	Actions
Cookie	<input type="radio"/> REQUIRED	<input checked="" type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED			Actions
NoPass Flow	<input type="radio"/> REQUIRED	<input checked="" type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL		Actions
NoPass	<input checked="" type="radio"/> REQUIRED	<input type="radio"/> DISABLED				Actions

10) Under **Actions**, select **Config** to configure the extension.

Authentication

Flows Bindings Required Actions Password Policy OTP Policy WebAuthn Policy WebAuthn Passwordless Policy

NoPass

Auth Type	Requirement	Requirement	Requirement	Requirement	Requirement	Actions
Cookie	<input type="radio"/> REQUIRED	<input checked="" type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED			Actions
NoPass Flow	<input type="radio"/> REQUIRED	<input checked="" type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL		Actions
NoPass	<input checked="" type="radio"/> REQUIRED	<input type="radio"/> DISABLED				Actions

Delete
Config

11) In the **Create authenticator config** dialog, enter the following parameters for the NoPass server, that you have installed earlier:

- **Alias**—configuration name.



Note: Make sure that the Alias field is set to **NoPass**.

- **NoPass URL**—the URL of the NoPass server
- **Verify SSL**—turned off
- **Admin login**—login that is allowed to the Administrative panel
- **S-Code**—secret key necessary for the Identité administration during Keycloak registration
- **Portal ID**—ID of the Identité Provider. Generates and fills automatically
- **Auth GUID**—GUID for authentication. Generates and fills automatically

[Authentication Flows](#) > [NoPass Flow](#) > Create authenticator config

Create authenticator config

Alias ?	<input type="text"/>
NoPass URL ?	<input type="text"/>
Verify SSL ?	<input type="checkbox"/> OFF
Admin login ?	<input type="text"/>
S-Code ?	<input type="text"/>
Portal Id ?	<input type="text"/>
Auth GUID ?	<input type="text"/>
	<input type="button" value="Save"/> <input type="button" value="Cancel"/>

What to read next

[Set up the NoPass theme](#)

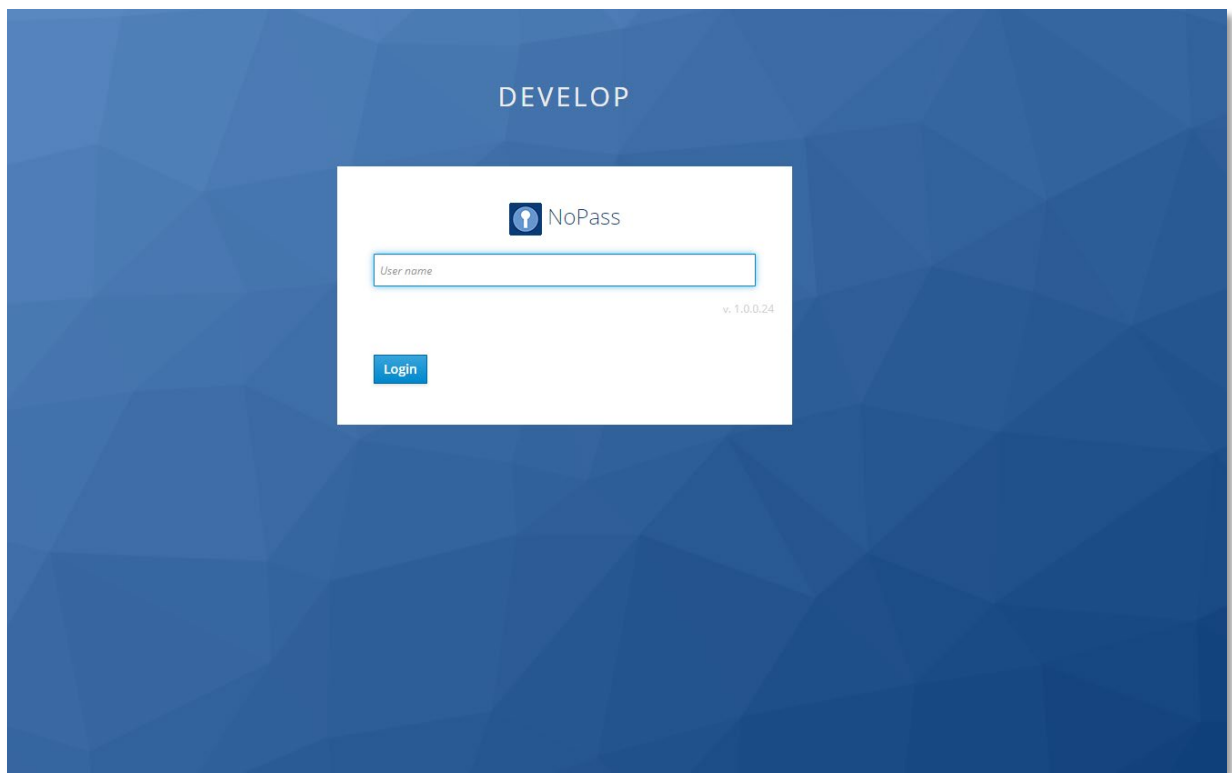
7.3. Set up the NoPass theme

To set up the NoPass theme, do the following:

- 1) From the Administration Console, select the required realm.
- 2) In the **General** tab, toggle **Enabled**.
- 3) In the **Themes** tab, set the following parameters and click **Save**:
 - a. **Login Theme**—nopass
 - b. **Account Theme**—nopass
 - c. **Admin Console Theme**—nopass
 - d. **Email Theme**—nopass

The screenshot shows the 'Master' administration console interface. At the top, there is a navigation bar with tabs: General, Login, Keys, Email, Themes (selected), Cache, Tokens, Client Registration, and Security Defenses. Below the tabs, the 'Themes' section is displayed. It contains four rows, each with a label and a dropdown menu: 'Login Theme' set to 'nopass', 'Account Theme' set to 'nopass', 'Admin Console Theme' set to 'nopass', and 'Email Theme' set to 'nopass'. Below these, there is a toggle for 'Internationalization Enabled' which is currently set to 'OFF'. At the bottom of the form, there are two buttons: 'Save' (highlighted in blue) and 'Cancel'.

A successfully installed theme looks as follows:



What to read next

[Set up service providers with Keycloak](#)

7.4. Set up service providers with Keycloak

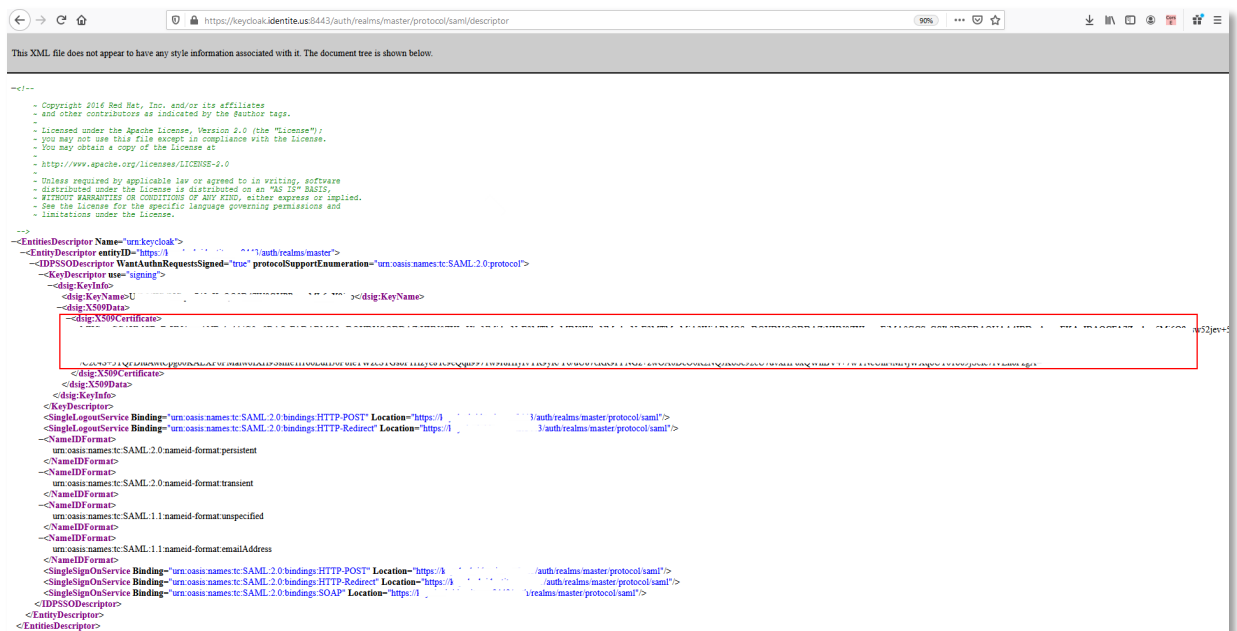
You will need to configure Keycloak for future work with various service providers. For successful integration with NoPass, you should use those service providers that support SAML or OpenID. However, before configuring a service provider, it is necessary to configure both Keycloak and a service provider.

Before you begin

- Find the Keycloak metadata at <https://{KeycloakURL}/auth/realms/{Realm}/protocol/saml/descriptor>.

Procedure

- 1) Extract the IdP signing certificate within the Keycloak metadata.



- 2) Copy the **dsig: X509Certificate** value to any text editor and save it as a .crt file. The certificate will contain the following three lines:

```
-----BEGIN CERTIFICATE-----
{Certificate}
-----END CERTIFICATE-----
```

What to read next

Register an Identity Provider

7.5. Register an Identity Provider

Procedure

To register an identity provider, do the following:

- On the **Portal registration** page, set the following parameters and click **Register**:
 - a. From the **Portal type** list, select **Identity provider**.
 - b. In the **Keycloak URL** field, enter the URL of the Keycloak server.
 - c. In the **Provider name** field, enter the name of identity provider.
 - d. In the **Admin login** field, enter the login, which is allowed to the **Admin panel**.
 - e. In the **S-code** field, enter the secret key necessary for the Identité administrator to register Keycloak.

Portal registration

Portal type: Identité provider

Keycloak URL: https://{keycloak.domain[:port]}/auth/realms/{realm}/nopass

Provider name:

Admin login:

S-code:

Register

Now your identity provider is registered.

What to read next

[Web portal management](#)

8. WEB PORTAL MANAGEMENT

This chapter contains the following:

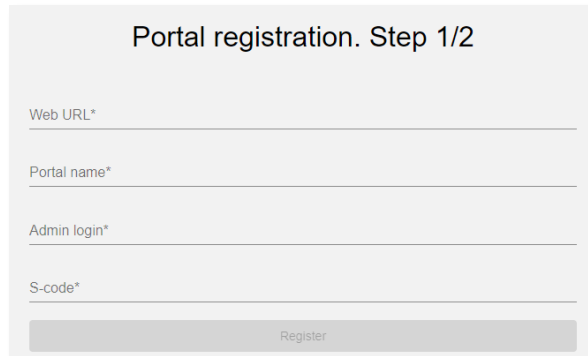
- [How to register a web portal](#)
- [How to register a web portal in the application server](#)
- [How to create an administrator account on the Preshop portal](#)

8.1. How to register a web portal

Procedure

To register a web portal, do the following:

- 1) On the portal registration page, enter the Admin login and S-code.



Portal registration. Step 1/2

Web URL*

Portal name*

Admin login*

S-code*

Register



Note: choose a name for your admin login and generate a password (S-code) to bind the authentication portal to the application server. These parameters are defined by you and saved on your database. Mind the following restrictions for the credentials:

- Admin login: length is less than 64 case sensitive characters.
- Password (S-code): length is a minimum of 8 characters including capital letters and numbers or symbols.

Example of AdminID and S-code:

```
AdminID: nopass-admin  
SCode: passCODE99!
```

- 2) Send this data into the portal response. For more information about it, see the API documentation.
- 3) [Register web portal in application server.](#)
- 4) On the admin portal settings page, enter (import) the license code that your received from us earlier and then customize the settings.

What to read next

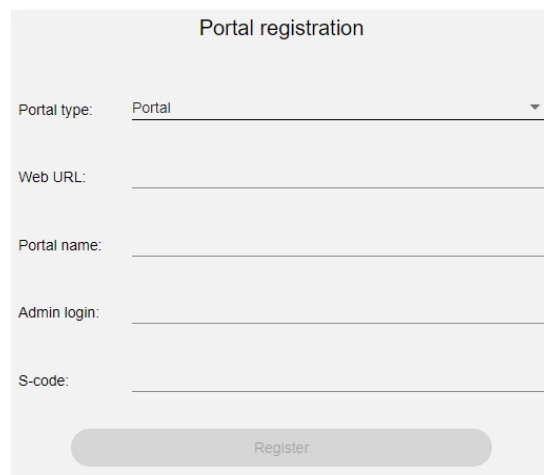
[How to register web portal in the application server](#)

8.2. How to register a web portal in the application server

Procedure

- 1) Follow the WEB URL that is assigned to the application server.
- 2) On the **Portal registration** page, fill in the following fields, and then click **Register**:

Web URL	Authentication portal
Portal Name	Unique portal name in the database
Admin login	Admin login name from the previous stage
S-code	Password that has been generated at the previous stage.



The screenshot shows a web form titled "Portal registration". It contains the following fields and controls:

- Portal type:** A dropdown menu with "Portal" selected.
- Web URL:** A text input field.
- Portal name:** A text input field.
- Admin login:** A text input field.
- S-code:** A text input field.
- Register:** A button at the bottom of the form.

- 3) In the admin portal settings page, enter or import the license code that you have received earlier.
- 4) Customize the following settings and click **Apply Settings**:
 - a. **General information**—information created in Step 2. The license information is available after entering or importing to this page.
 - b. **Security**—can be triggered or manipulated by admin for all users using our authentication system to access your services.
 - c. **General settings**—information of your admin panel.

Portal registration. Step 2/2


General information

Portal Name: preshop

Portal URL: https://demo-devops.identity.us

Portal admin/s: admindevops

Number of users: Active: 0 Inactive: 0 Blocked: 0 Locked: 0 Total: 0

License: No License 

Security

Rooted/jailbroken device: ☒ Allow ☐ Block

2nd factor of authentication: ☐ Mandatory ☒ Voluntary

Screen Lock: ☐ Mandatory ☒ Voluntary

Supported OS: ☒ iOS: min version

☒ Android: min version

General settings

Region: North America


Language: English

Logging: ☒ Never delete logs

☐ Delete logs every days

General settings

Support email:

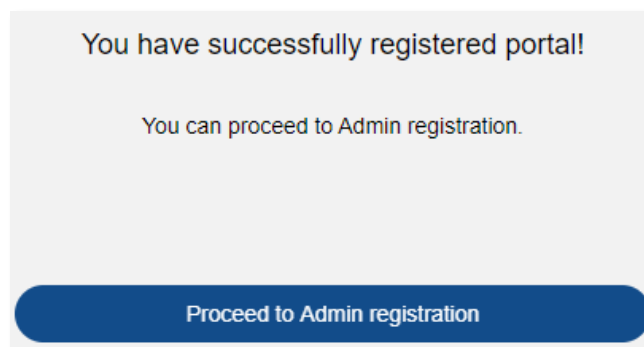
Logo: 

[Change logo](#)

png or jpeg, to 2 mb

[Apply settings](#)

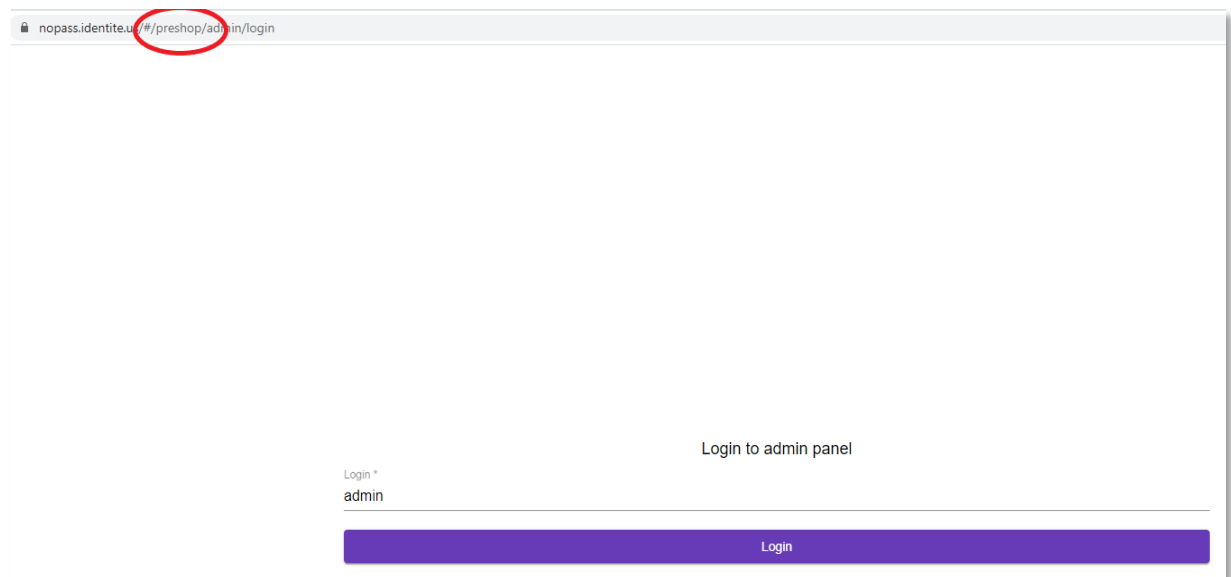
A successful result is as follows:



- 5) Click **Proceed to Admin registration**, scan the QR code, and enter the confirmation code.
- 6) On the **Admin panel login** page, save the link to the admin panel. The link consists of the NoPass application URL and Portal name that was set during the registration in **Step 2**.

`https://SERVER_URL/#!/PORTAL_NAME/admin/login`

- 7) Enter the **Admin panel** using the link and click **Login**.



- 8) Go to nopass.identite.us/#/preshop/admin/login (the name of the registered portal is highlighted in red) and enter your AdminID.
- 9) After accepting the authentication attempt, by default, you will be logged into the admin panel.

Related topic

[Licensing](#)

What to read next

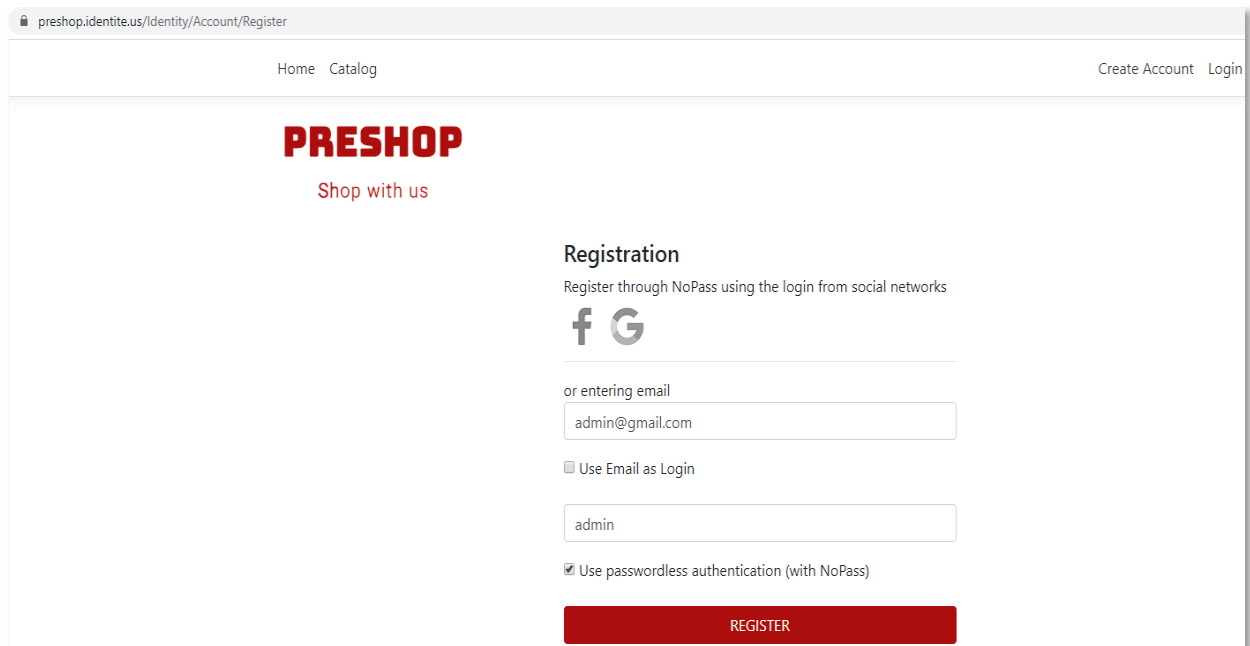
[How to create an administrator account on the Preshop portal](#)

8.3. How to create an administrator account on the Preshop portal

You need to register and bind an administrator account to your mobile device to have access to the admin panel. If you accidentally missed this step during Web Portal Registration, you can do it on the Preshop Web portal

Procedure

- 1) Click **Create Account**.
- 2) On the **Registration Page**, enter the same login name that you entered into the **AdminID** field in Step 2, [How to register the web portal in the application server](#), and click **Register**.



The screenshot shows the Preshop Registration page in a web browser. The browser's address bar displays 'preshop.identite.us/Identity/Account/Register'. The page has a header with 'Home' and 'Catalog' links on the left, and 'Create Account' and 'Login' links on the right. The main content area features the 'PRESHOP' logo in red, with the tagline 'Shop with us' below it. To the right of the logo is a 'Registration' section. This section includes the text 'Register through NoPass using the login from social networks' and icons for Facebook and Google. Below these is a section for 'or entering email' with a text input field containing 'admin@gmail.com'. There is a checkbox labeled 'Use Email as Login' which is currently unchecked. Below the email field is another text input field containing 'admin'. At the bottom of the registration section is a checkbox labeled 'Use passwordless authentication (with NoPass)' which is checked. A large red 'REGISTER' button is positioned at the bottom right of the registration form.

What to read next

[Licensing](#)

9. NoPASS DESKTOP UNLOCK

NoPass Desktop Unlock is an alternative method of interactive user authentication and access management on machines running Windows operating system.

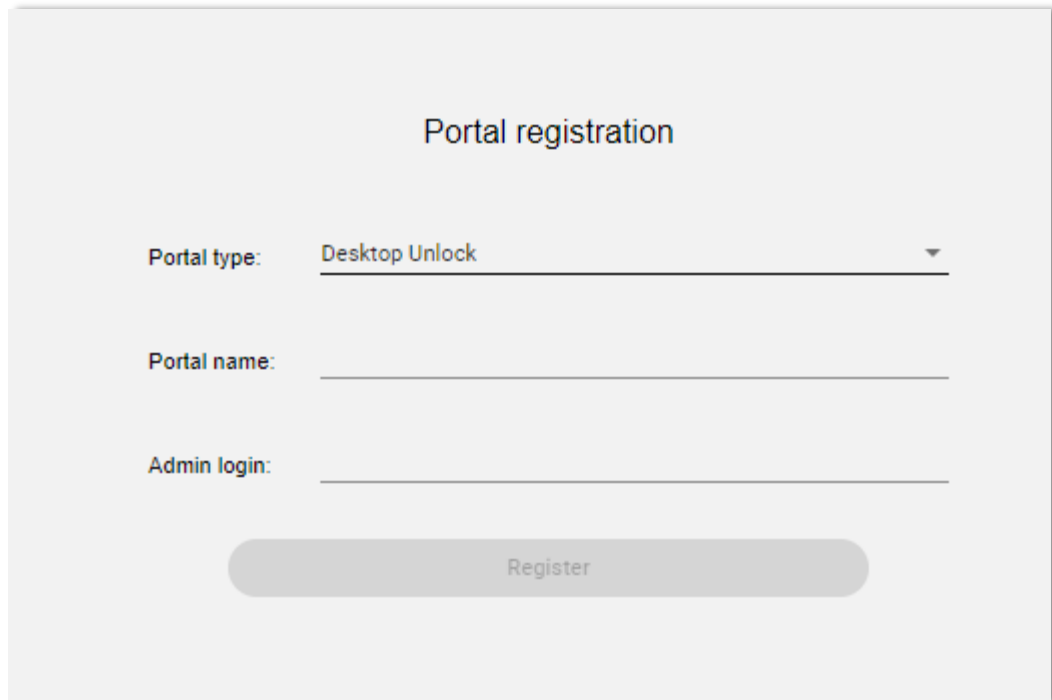
As an intermediate member, it provides connection between the NoPass server and your corporate server to provide passwordless authentication and Two-Factor authentication as an option when accessing a Windows desktop computer.

This chapter contains the following:

- [Register the portal and create an admin](#)
- [Installation](#)


9.1. Register the portal and create an admin

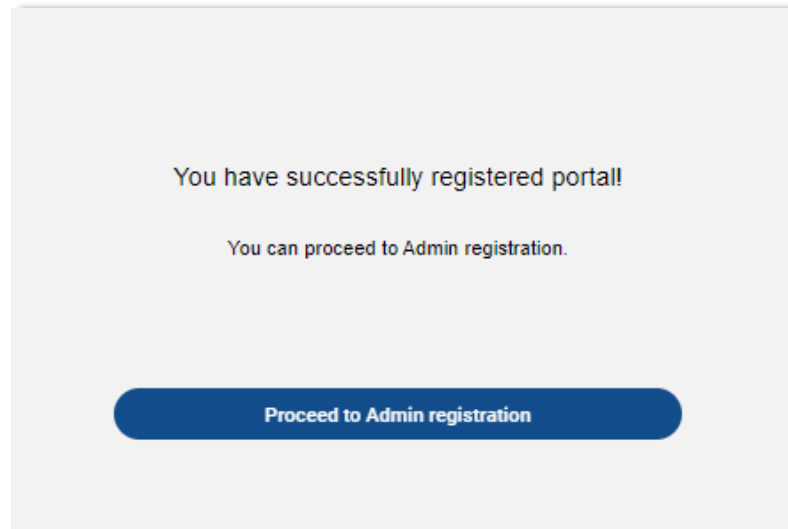
- 1) On the portal registration page, set the following parameters, and click **Register**:
 - a. From **Portal Type**, select **Desktop Unlock**
 - b. In the **Portal Name** field, enter a unique name.
 - c. In the **Admin login** field, enter your login.



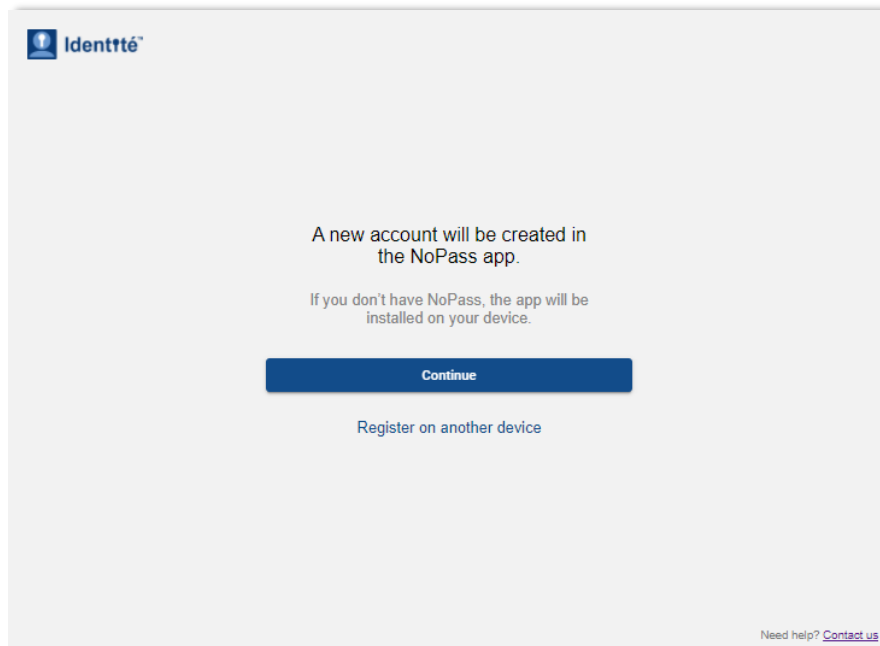
The screenshot shows a web form titled "Portal registration". It contains three input fields: "Portal type:" with a dropdown menu showing "Desktop Unlock", "Portal name:" with a text input field, and "Admin login:" with a text input field. Below these fields is a large, rounded rectangular button labeled "Register".

If the registration is successful, you will be redirected to the next page for licensing.

- 2) In the **Licensing** group, click  **Edit** to add the license file.
- 3) Drag your license file into the window and click **Save**.



- 4) Click **Proceed to Admin registration** and scan the QR-code to link the account to your desktop application.

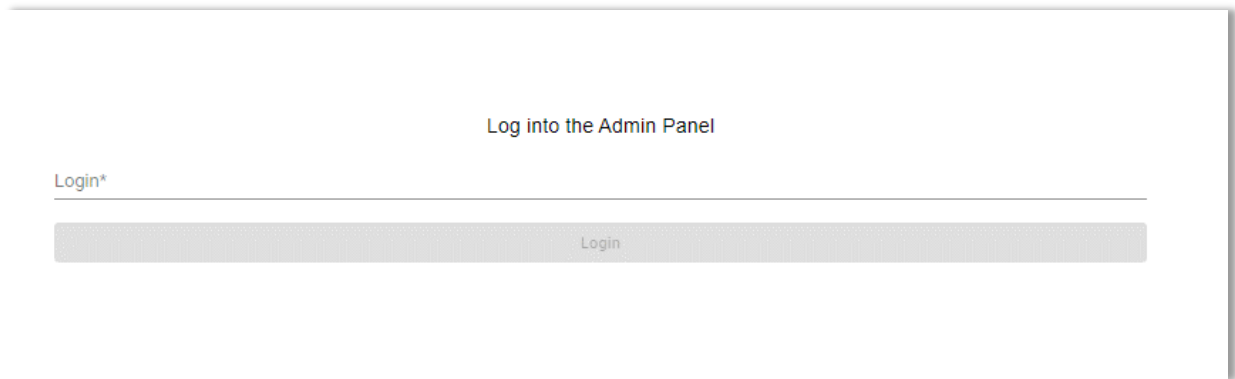


Warning: By default, the session timeout is set to 300 seconds. Make sure to register during this period of time, otherwise it will not be possible to complete the registration procedure.

Now, you can enter the Admin Panel.

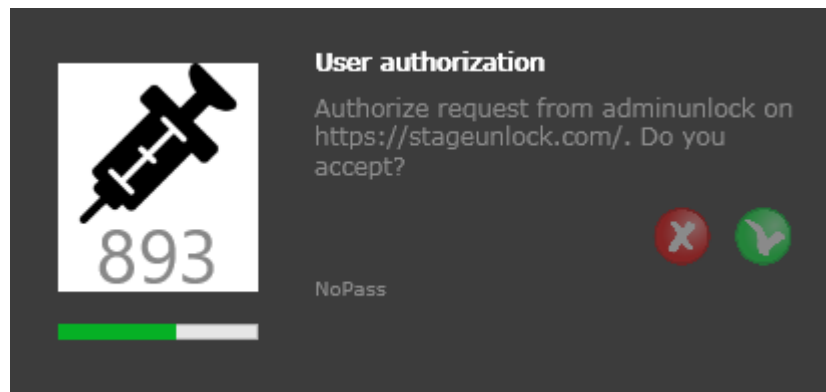
Enter the Admin Panel

- 1) Go to <https://<serverURL>/#/portalname/admin/login>



The screenshot shows a web browser window displaying the 'Log into the Admin Panel' page. At the top, the text 'Log into the Admin Panel' is centered. Below it, there is a label 'Login*' followed by a horizontal input field. Underneath the input field is a grey button labeled 'Login'.

- 2) In the **Login** field, enter your admin login.
- 3) On a push notification, click **Accept**.



You have entered the NoPass Desktop Unlock Admin Panel.

For more information about Admin Panel controls and managing user accounts, see *The NoPass Administrator Manual*.

9.2. How to install the NoPass Desktop Application

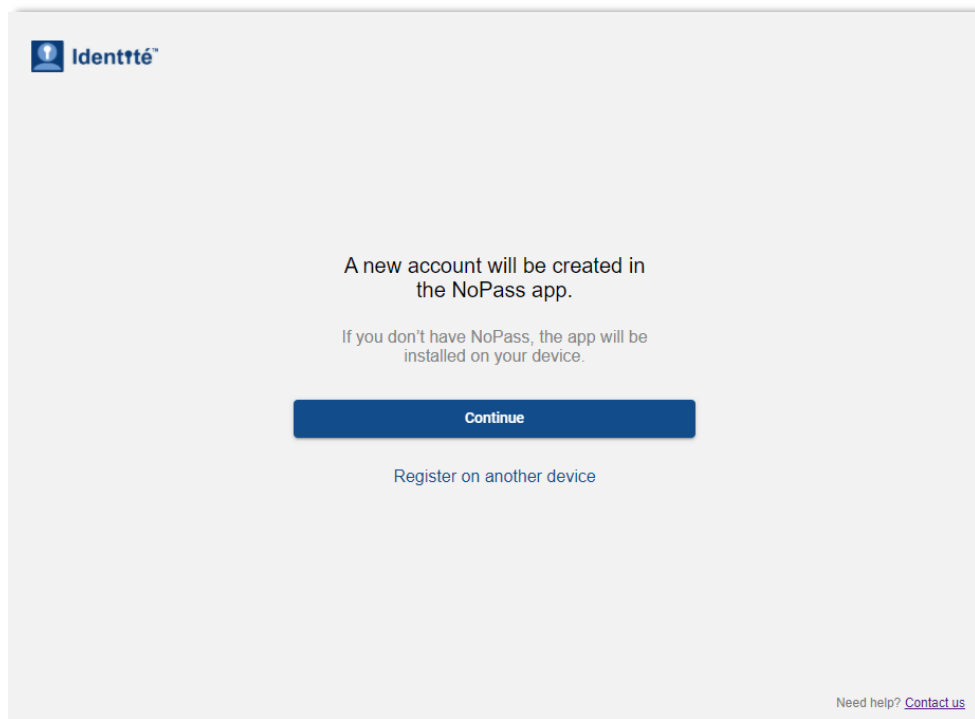
A user installs a desktop client on the computer they want to unlock using NoPass Desktop Unlock. Then, they need to register an account and synchronize it with their mobile NoPass application to be able to receive push notifications.

Prerequisites

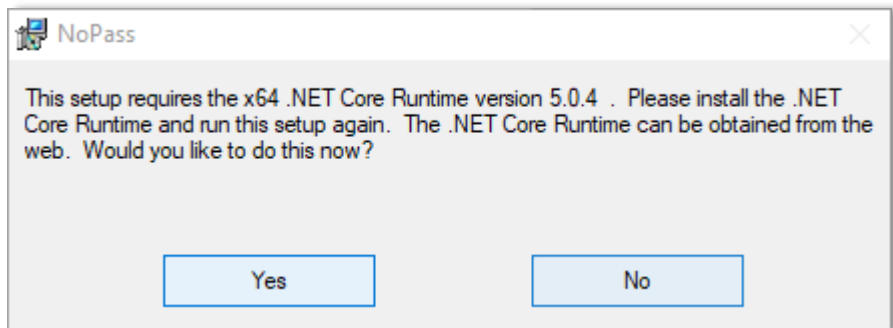
For correct work of the NoPass Desktop Unlock feature, you will need Microsoft .NET SDK 5.0.201 installed on your computer.

Install the NoPass Desktop Application

- 1) Go to <https://<serverURL>/#/<portalname>/user-confirmation> and click **Continue** to download the NoPass Desktop Application.

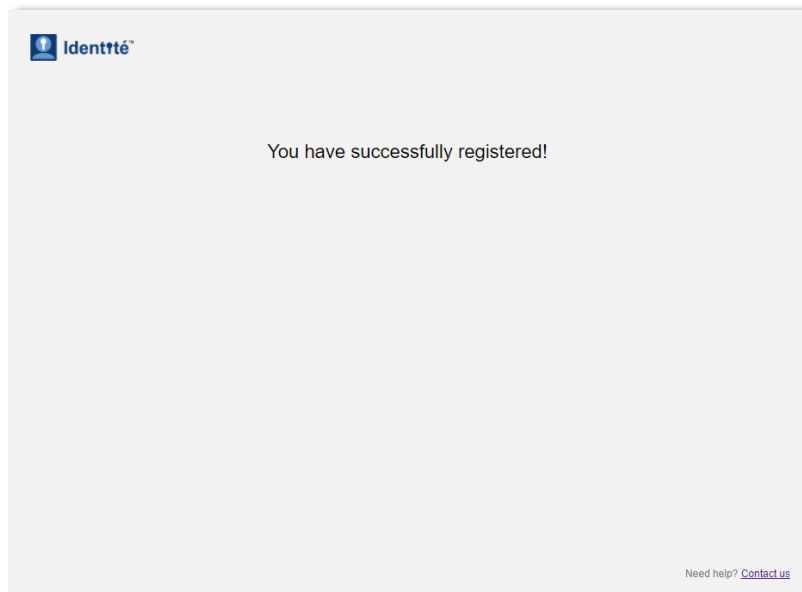


- 2) Follow the **NoPass Setup Wizard** instructions.



- 3) Locate the NoPass Setup program on your computer and launch it again to start the registration process.

The registration will be completed automatically.

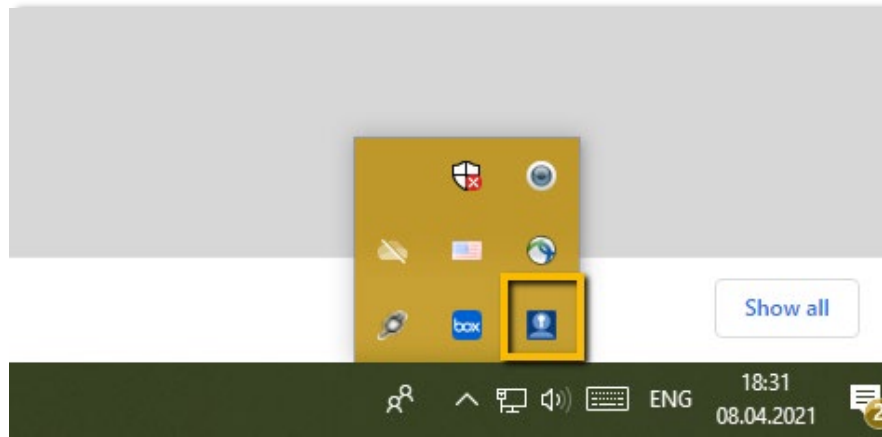



- 4) Close the browser window.

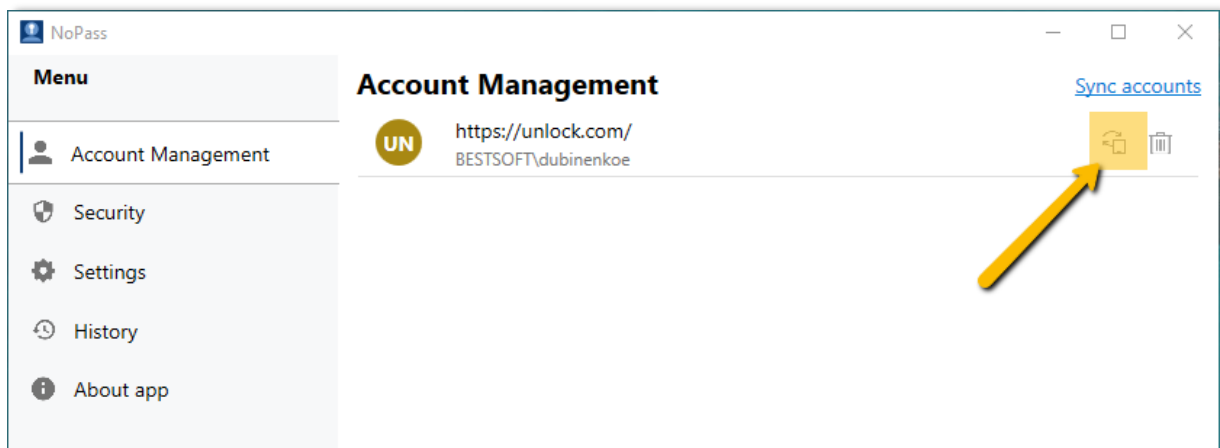
Synchronize the devices

Before you can start using the NoPass Desktop Unlock, you need to synchronize the NoPass applications on your devices to make your desktop account appear in your mobile NoPass application.

- 1) In the Windows notification area, click the **NoPass** icon to open the NoPass Desktop Application.



- 2) In the Account Management menu, click  **Synchronize** to make your account appear in your other device application.



- 3) Follow the instructions on the **Account synchronization** popup.

Account synchronization

<https://unlock.com/>

Scan the QR with the NoPass App



1. Open the NoPass application.
2. On Account management, tap Add account.
3. On Registration, tap Get started.
4. On the popup, tap Yes, to give the application permission to use your camera.
5. Scan QR code on this page

Cancel

NoPass

- 4) On the next popup, enter the confirmation code from your mobile device.

Account synchronization

Please enter confirmation code you see on the device

 -

OK

Cancel

NoPass

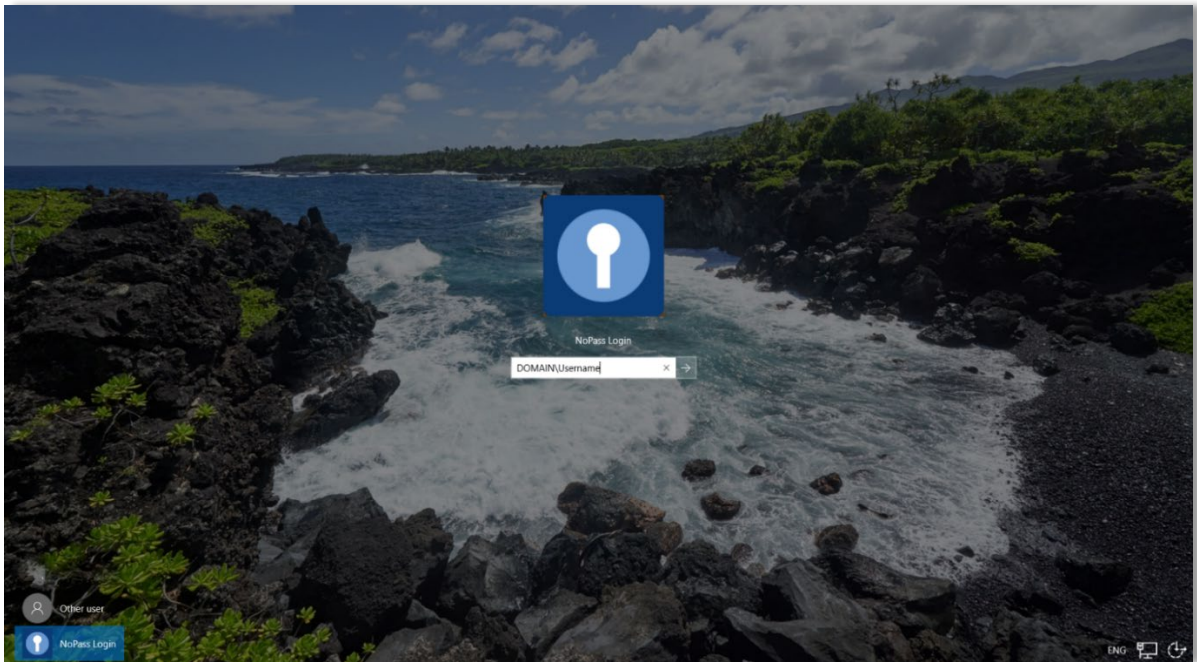
If the synchronization pedure is successful, a new account on your NoPass mobile application appears.

Now, you can use the NoPass Desktop Unlock feature.

How to unlock Windows using NoPass Desktop Unlock

When you try to open your Windows desktop computer with NoPass Desktop Unlock for the first time, you will be asked to enter your login name and password. You will be asked to do so each time you renew the password.

- 1) On Windows 10 Login Screen, select **NoPass Login**.



- 2) Accept the push notification on your other device.



You have unlocked your Windows account.

10. NoPASS INTEGRATIONS

This chapter contains the following:

- **RADIUS based integrations**
- **Integrations with Identity Providers**
- **NoPass integration with Box**

10.1. RADIUS based integrations

NoPass provides the ability for organizations to use NoPass as a 2nd factor authentication to manage authorization and access to on-premises applications using the RADIUS protocol.

For RADIUS integration scheme and explanation, see Section 3.1. [Infrastructure schemes](#).



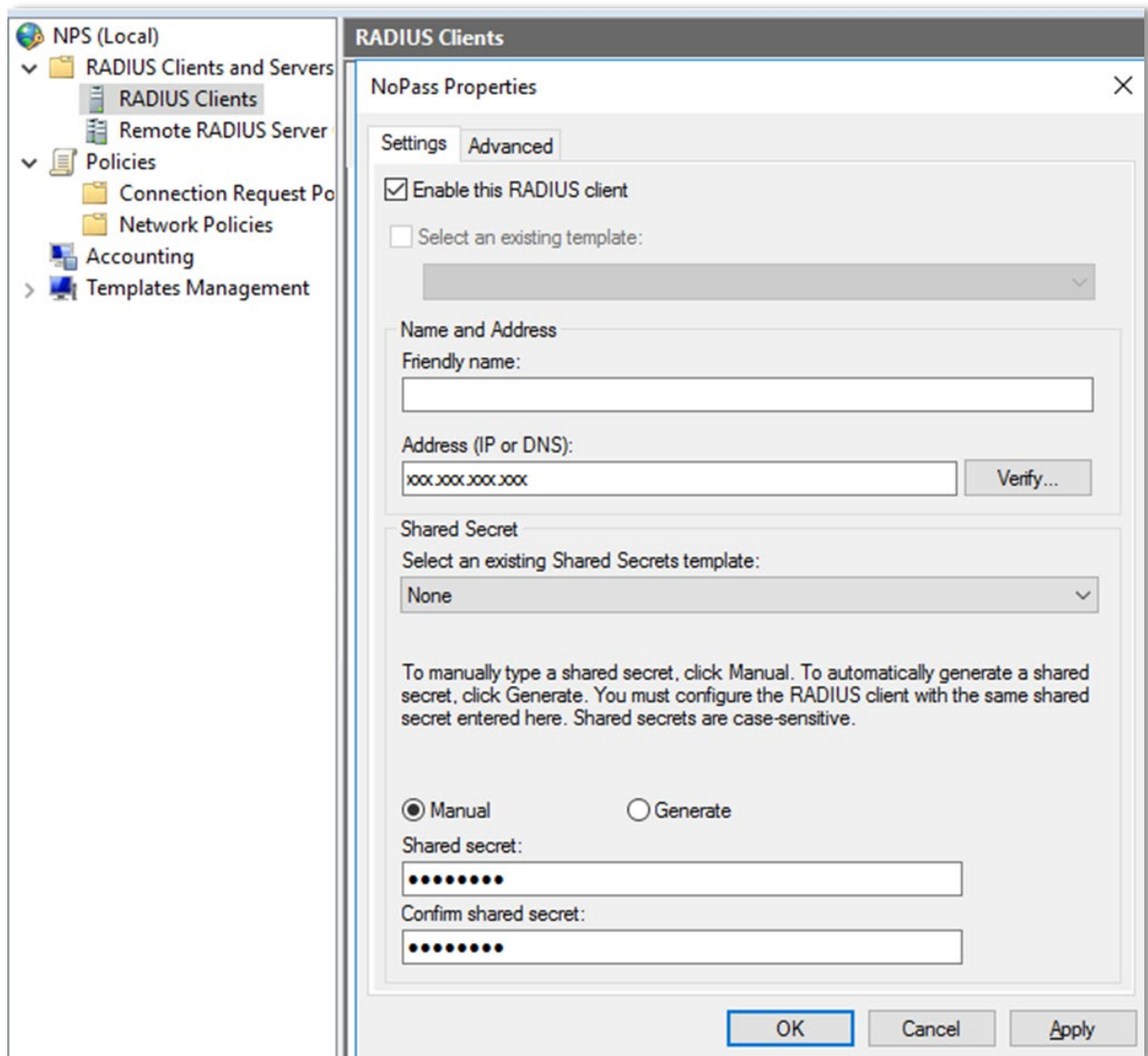
Note: The following instructions apply for Windows 2016.

What to read next

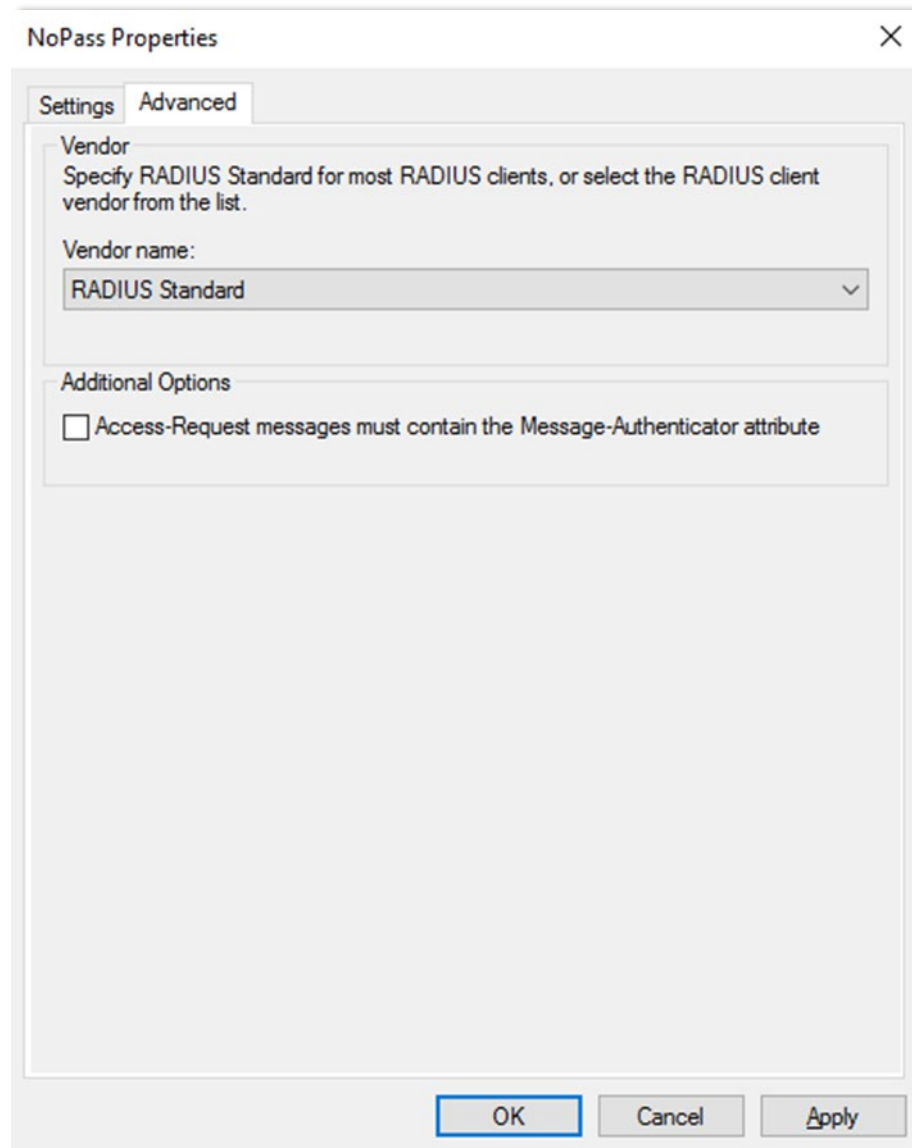
[Configure RADIUS server](#)

Configure RADIUS server

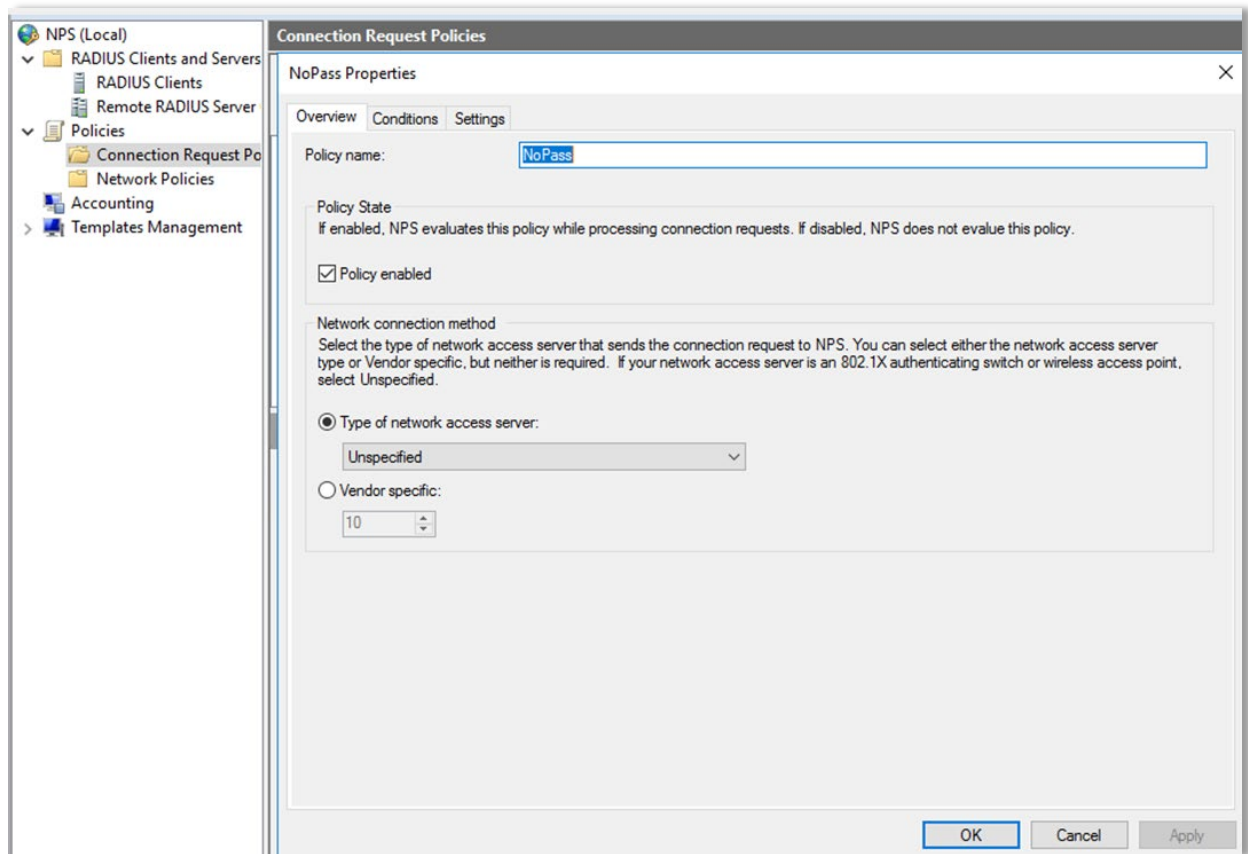
- 1) In the **NPS** console, add a new RADIUS client, and then do the following:
 - a. In the **Address (IP or DNS)** field, enter the NoPass server IP address
 - b. Form the **Shared secret** list, select the same secret as one used in the NoPass configuration.



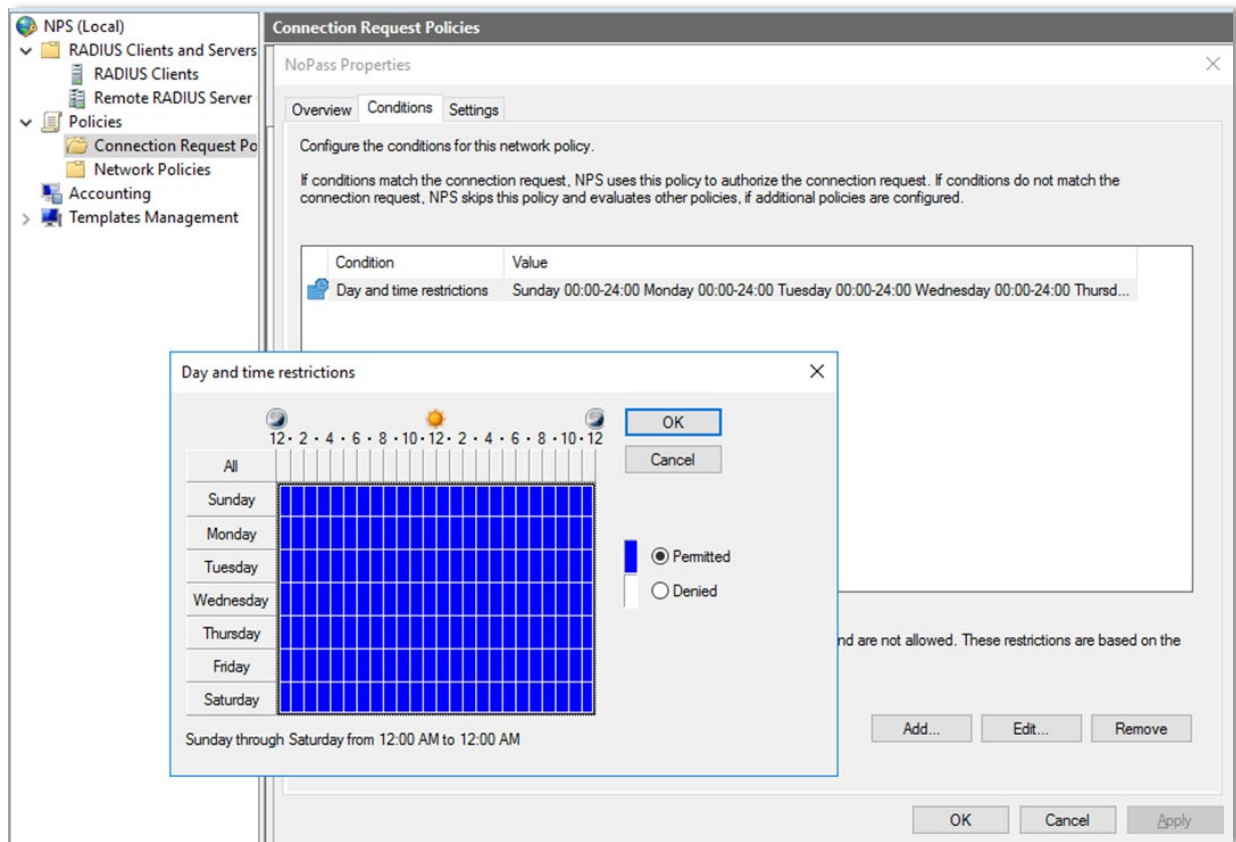
- 2) The **Advanced** tab is fulfilled by default.



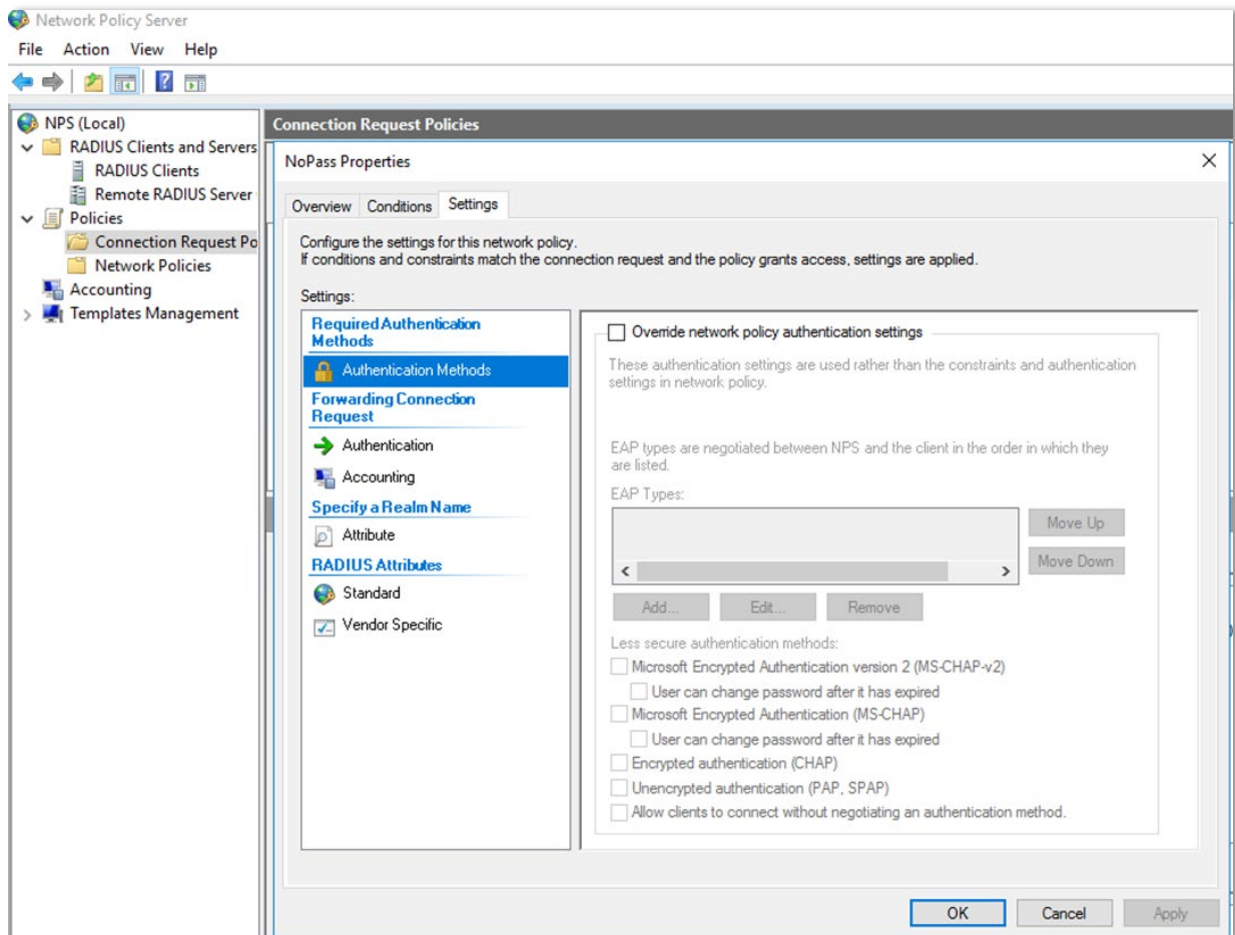
- 3) In the **NPS** console, select **Connection Request Policy**, and do the following:
 - a. On the **Overview** tab, in the **Policy name** field, enter *NoPass*.
 - b. In **Policy State**, select **Policy enabled**.
 - c. In **Network connection method**, select **Type of network access server > Unspecified**, then click **Apply**.



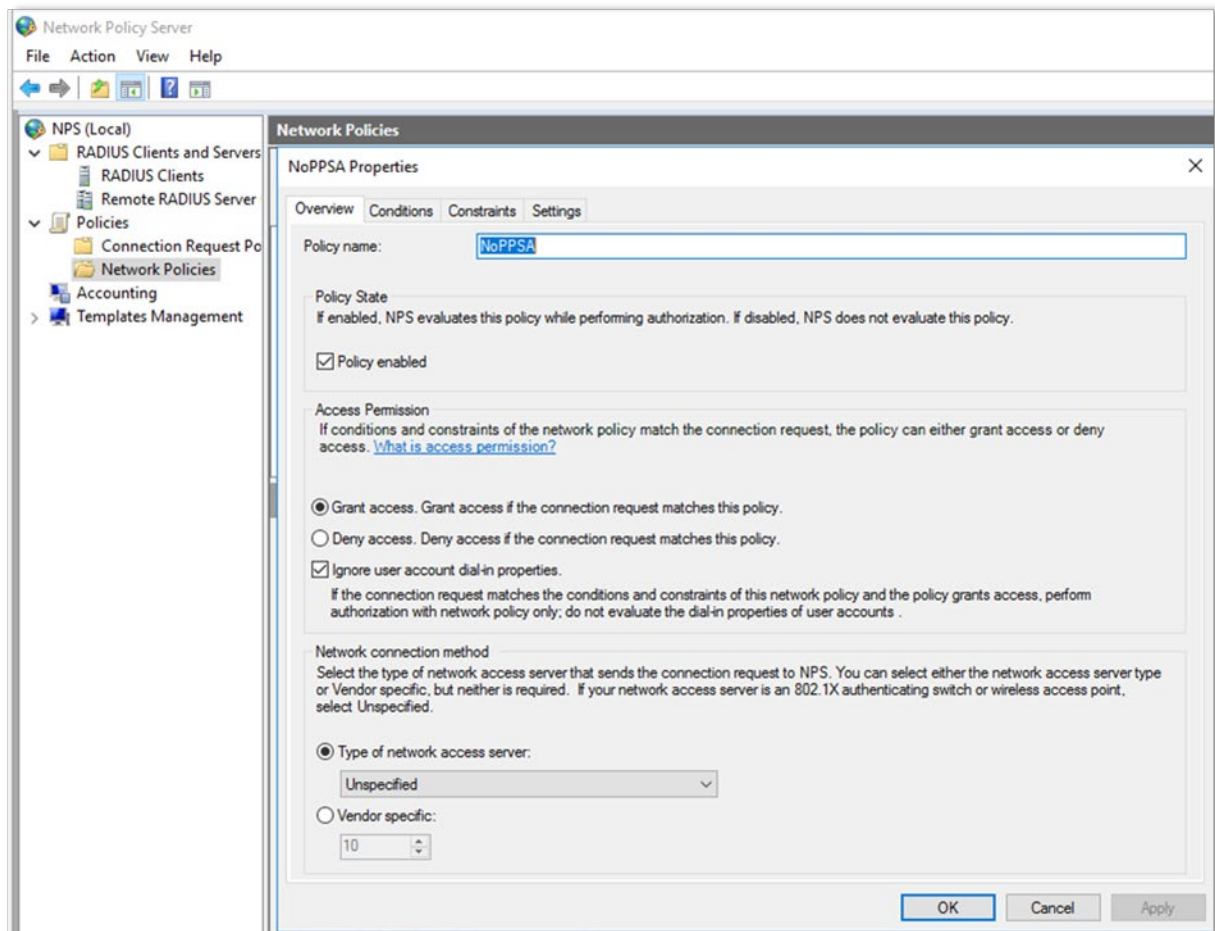
- 4) On the **Conditions** tab, set **Day and time restrictions**, and click **Apply**.



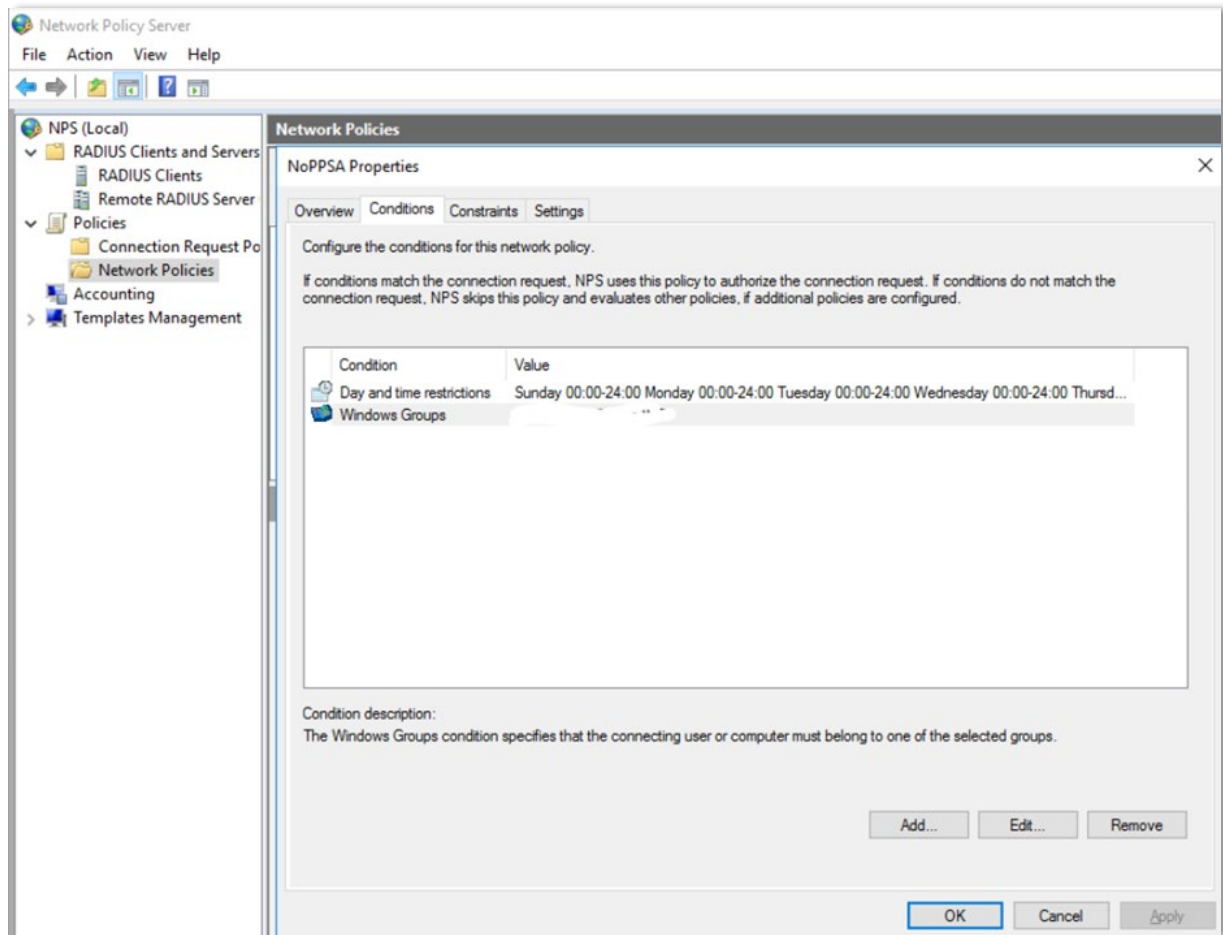
- 5) On the **Settings** tab, configure **Authentications methods**, and click **Apply**.



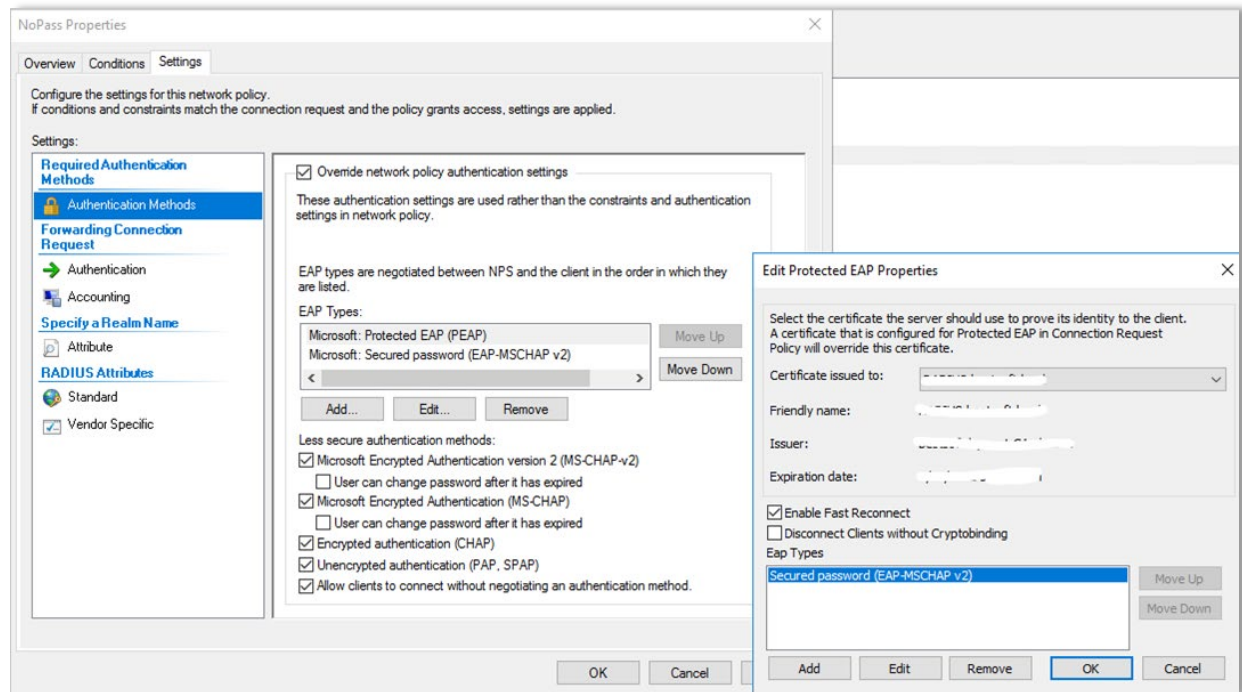
- 6) In the **NPS** console, select **Network Policies**, and do the following:
 - a. On the **Overview** tab, in the **Policy name** field, enter **NoPPSA**.
 - b. In **Policy State**, select **Policy enabled**.
 - c. In **Access Permission**, select **Grant access**. Grant access if the connection request matches this policy. Select **Ignore user account dial-in properties**.
 - d. In **Network connection method**, select **Type of network access server**.
 - e. Click **Apply**.



- 7) On the **Conditions** tab, configure additional rules related to Active Directory access hierarchy. Click **Apply**.



- 8) On the **Settings** tab, install an appropriate certificate. Self-signed certificates are allowed here.



Now that the NoPass system is integrated with your RADIUS server, you can add RADIUS clients, such as WiFi, VPN, RDP, etc.

What to read next

[Configure WiFi access point](#)

Configure Wi-Fi access point

In your WiFi access point set the following parameters:

- 1) **Profile Name — NoPass**
- 2) **RADIUS Auth Server** — IP address, Port, Password/Shared Secret the same as for the NoPass server
- 3) **RADIUS Accounting Server** — IP address.

What to read next

[OpenVPN](#)

OpenVPN

The following instructions enable you to add NoPass 2FA to your OpenVPN, which requires configuring OpenVPN Access Server and OpenVPN Connect.



Configure OpenVPN Access Server



Note: The NoPass system is currently working on OpenVPN Access Server v2.7.3.

- In the **OpenVPN Access Server** application, in **RADIUS Authentication**, enter and save the following settings: The Hostname or IP Address, Shared Secret, Authentication Port and Accounting Port.



Warning: Make sure these values are the same as in the RADIUS Admin Panel.

The screenshot shows the 'RADIUS Authentication' configuration page in the OpenVPN Access Server v2.7.3 interface. The left sidebar contains navigation links: STATUS, CONFIGURATION, USER MANAGEMENT, AUTHENTICATION (selected), TOOLS, and a Logout button. The main content area is titled 'RADIUS Authentication' and includes a sub-header 'RADIUS in use' indicating it is selected. Below this, the 'RADIUS Authentication Method' section shows three options: PAP, CHAP (selected), and MS-CHAP v2. The 'RADIUS Settings' section at the bottom contains four input fields: 'Hostname or IP Address' (10.0.254.24), 'Shared Secret' (masked with dots), 'Authentication Port' (1812), and 'Accounting Port' (1813). Each field is highlighted with a yellow border.

What to read next

[Access Open VPN using NoPass 2FA: User instructions](#)

Access OpenVPN Connect using NoPass 2FA: User instructions

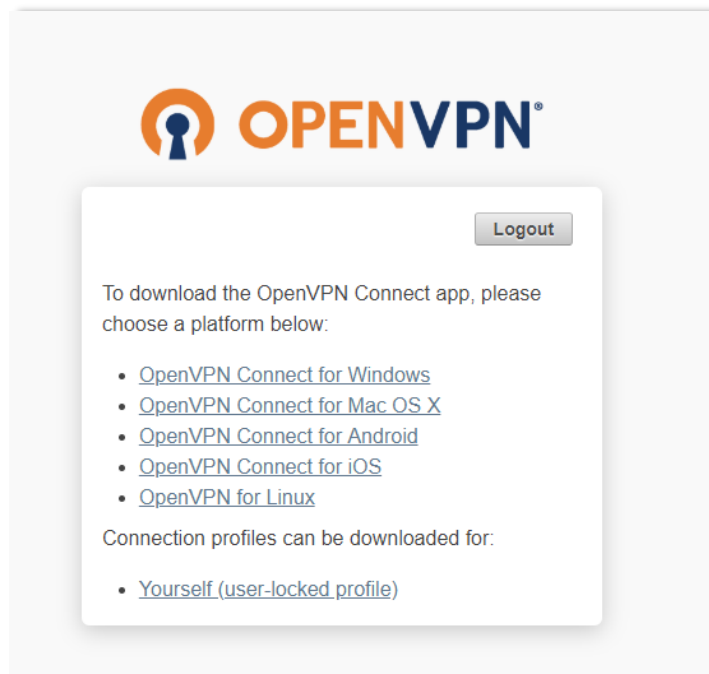
As an Administrator, provide the following instructions to your network users.

Install the OpenVPN Connect application

- 1) On the Open VPN connection page, enter your domain login and password.

The image shows the OpenVPN Connect login page. At the top is the OpenVPN logo, which consists of a blue circle with a white keyhole icon inside, followed by the text "OPENVPN" in blue. Below the logo is a white rectangular box containing two input fields: "Username" and "Password". To the right of the "Password" field is a blue "Login" button.

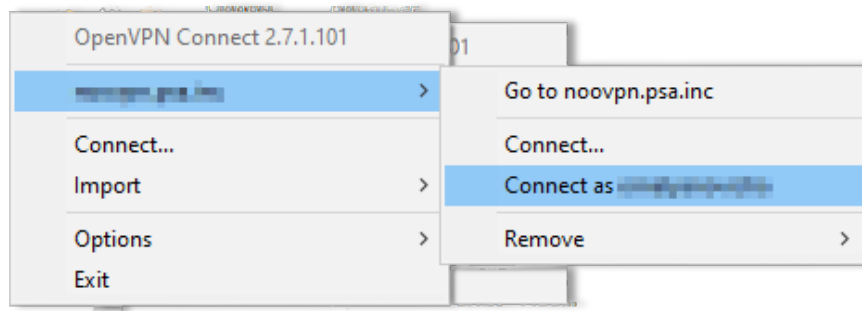
- 2) On the next page, select the platform to download the OpenVPN application. Local administrator permissions are required.

The image shows the OpenVPN Connect download page. At the top is the OpenVPN logo. Below the logo is a white rectangular box. In the top right corner of this box is a grey "Logout" button. The main text in the box says "To download the OpenVPN Connect app, please choose a platform below:". Below this text is a bulleted list of links: "OpenVPN Connect for Windows", "OpenVPN Connect for Mac OS X", "OpenVPN Connect for Android", "OpenVPN Connect for iOS", and "OpenVPN for Linux". Below the list, the text says "Connection profiles can be downloaded for:", followed by a bulleted list with one link: "Yourself (user-locked profile)".

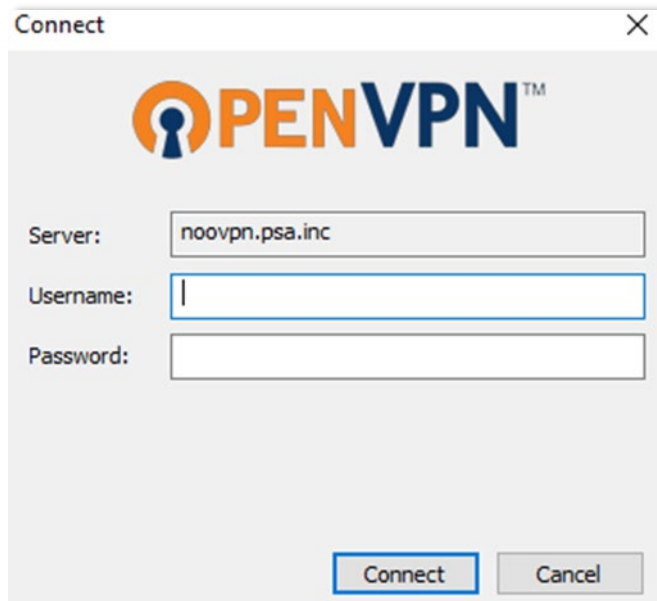
- 3) Download/run the *.msi file to start the application installation.
- 4) On the same page, select **Yourself (user-locked profile)**, download and save the configuration file.
- 5) After installation is completed, right-click the **OpenVPN** icon. Click **Import** and then select **From local file**.
- 6) In the **Explorer**, navigate to the corresponding directory, and select the configuration file saved during Step 4.

Connect to OpenVPN

- 1) Right-click the **OpenVPN** icon. Click the corporate VPN network, and then select a user.



- 2) In the dialog box, enter your username and password.



- 3) On the **OpenVPN – Warning** popup click **Yes**, to allow OpenVPN to connect to your corporate VPN server.
- 4) On your smartphone with the NoPass application, accept the push authentication notification.

If the connection is successful, the OpenVPN icon on your desktop changes:



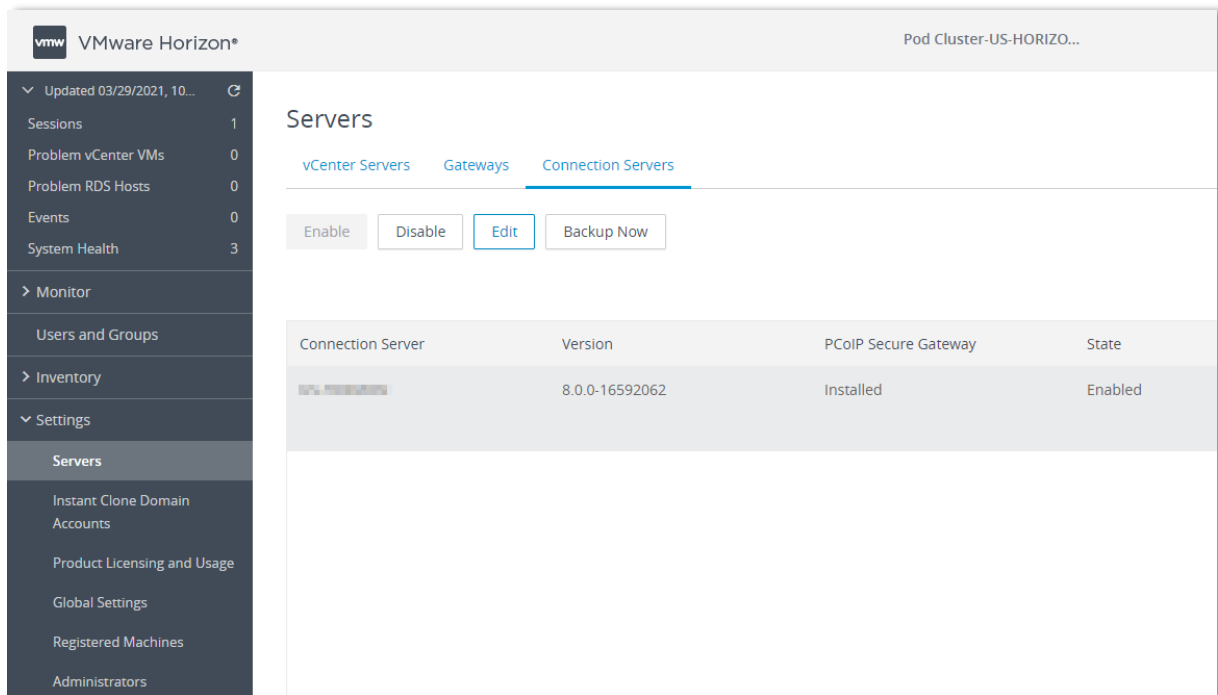
What to read next

[Horizon](#)

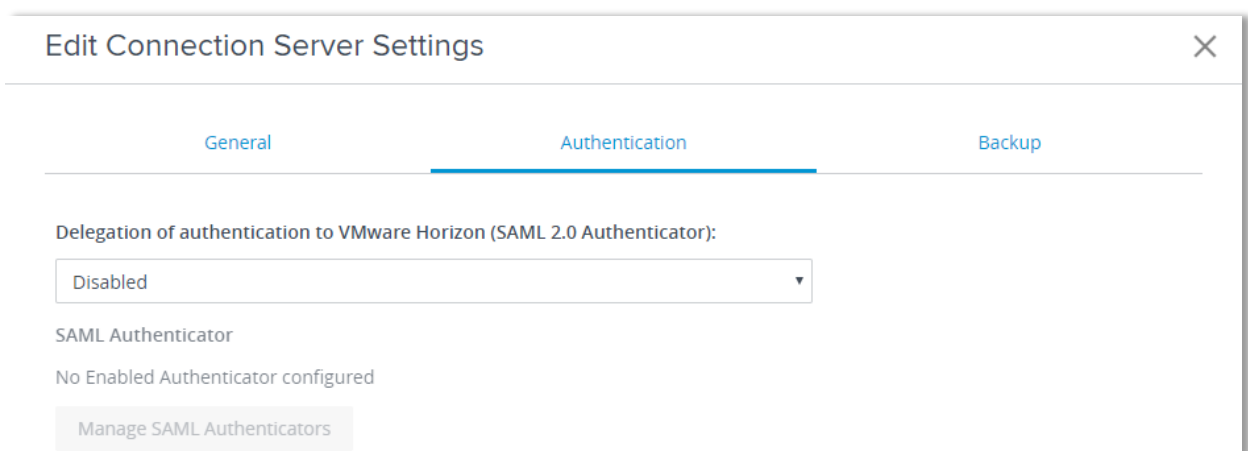
Horizon

Configure VMware Horizon

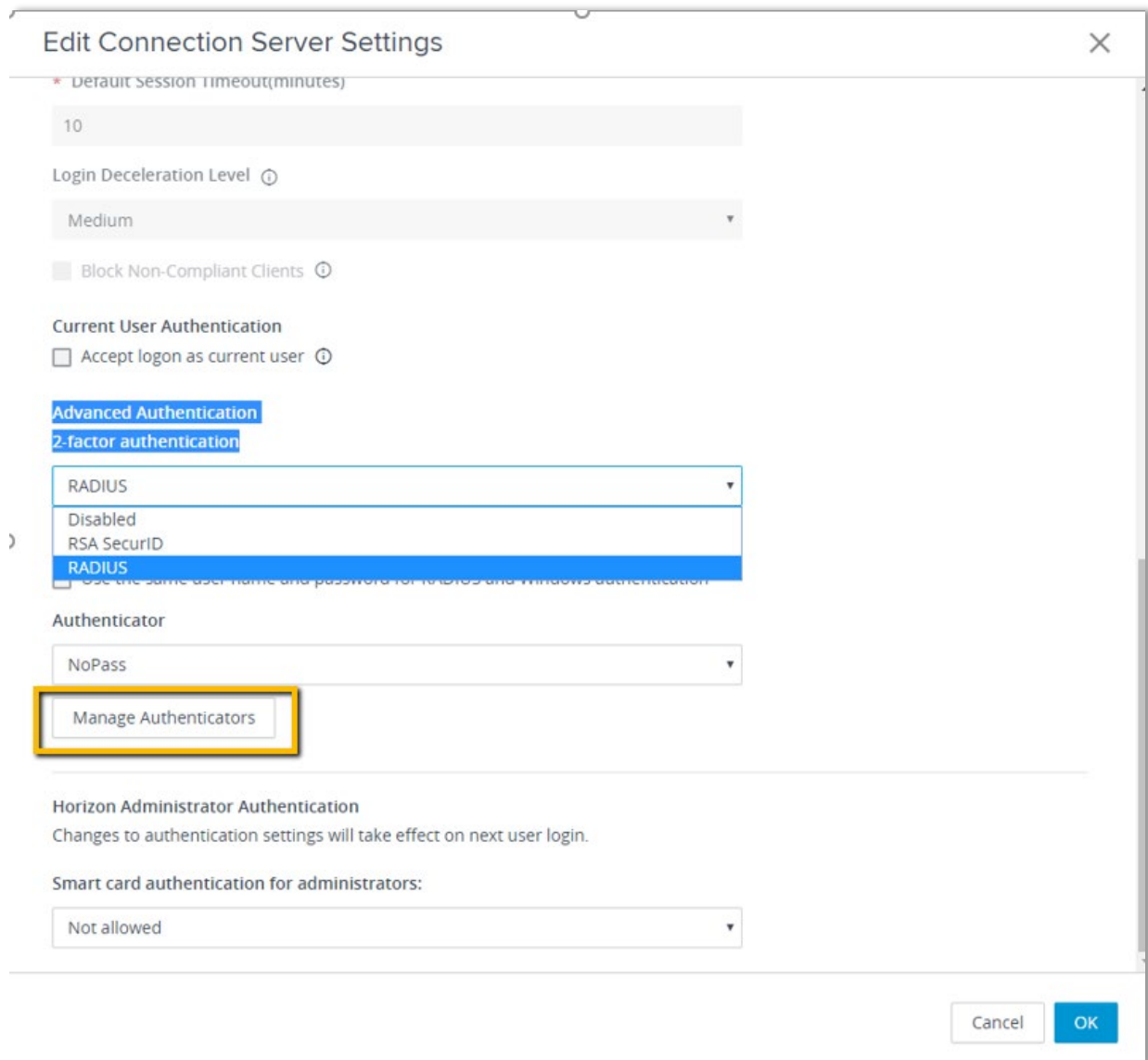
- 1) Go to <https://<horizon.domain.name>/admin> to enter the VMWare Horizon admin panel > **Settings** > **Servers** > **Connection Server**. Click **Edit**.



- 2) In the **Edit Connection Server Settings**, select the **Authentication** tab and scroll it down to **Advanced Authentication**.



- 3) From **Advanced Authentication 2-factor authentication**, select **RADIUS**, and then click the **Manage Authenticators** button.



Edit Connection Server Settings

* Default Session Timeout(minutes)

10

Login Deceleration Level ⓘ

Medium

☐ Block Non-Compliant Clients ⓘ

Current User Authentication

☐ Accept logon as current user ⓘ

Advanced Authentication

2-factor authentication

RADIUS

Disabled

RSA SecurID

RADIUS

☐ Use the same user name and password for RADIUS and Windows authentication

Authenticator

NoPass

Manage Authenticators

Horizon Administrator Authentication

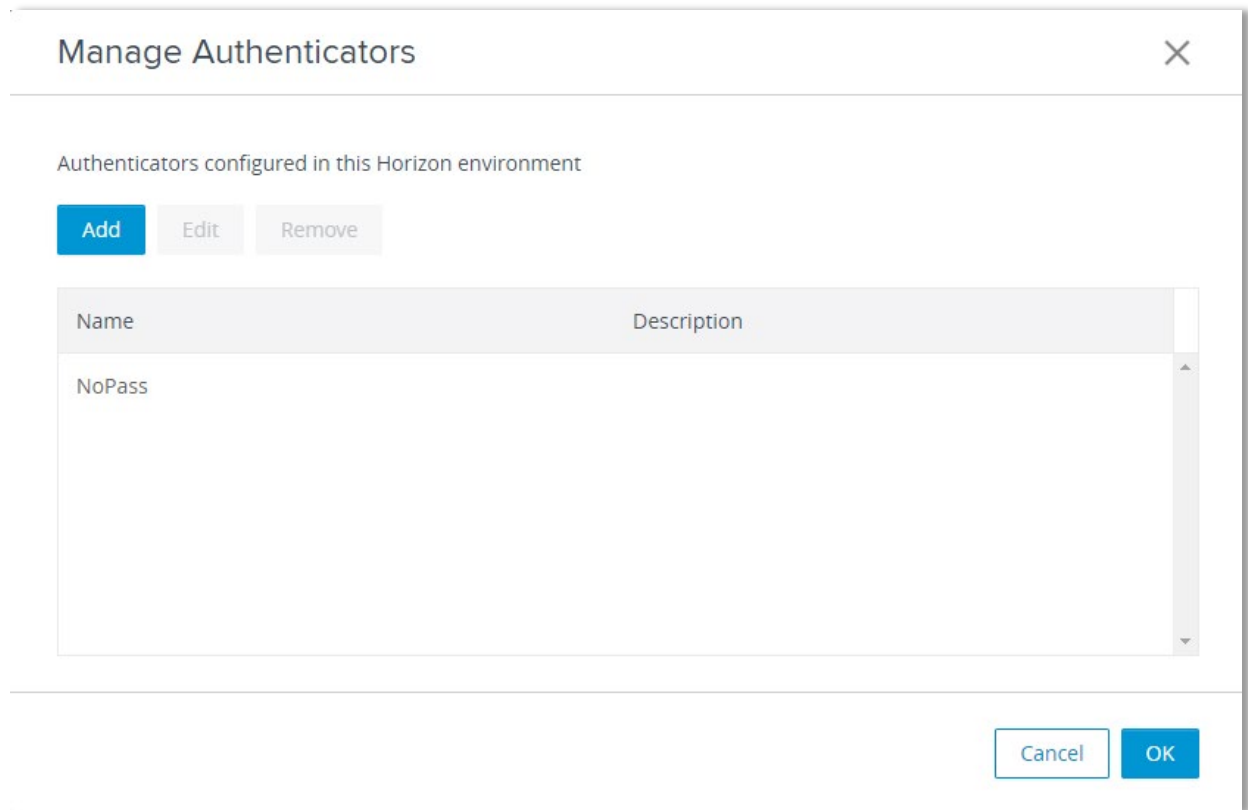
Changes to authentication settings will take effect on next user login.

Smart card authentication for administrators:

Not allowed

Cancel OK

- 4) In the **Manage Authenticators** window, click **Add** to add a new RADIUS server.



5) Click **Edit**, to configure RADIUS Authenticator, and populate the following mandatory fields with the values known from the NoPass server deployment:

- **Hostname/Address**, enter the ID address of NoPass radius ports
- **Authentication Port**
- **Accounting Port**
- **Authentication Type**
- **Shared Secret**
- **Server Timeout**
- **Max Attempts**
- **Realm Prefix**
- **Realm Suffix**

Edit RADIUS Authenticator

Client Customization
Primary Authentication Server
Secondary Authentication Server

* Hostname/Address

* Authentication Port

* Accounting Port

Authentication Type

* Shared Secret

* Server Timeout
 Seconds

* Max Attempts

Realm Prefix

Realm Suffix

Cancel OK

Configure the NoPass RADIUS admin panel

- 1) Go to the **NoPass RADIUS admin panel** > **Settings** > **RADIUS settings**.
- 2) In the **Remote clients** group, add Horizon as a remote client.

#	Name	Address	Actions	Add client
1	RD Gateway	10.2.1.130	⋮	
2	Horizon	10.2.0.152	⋮	

For more information about RADIUS settings, see *NoPass Administrator Manual*.

What to read next

[IdP based integrations](#)

10.2. IdP based integrations

For SSO integration scheme, see Section 3.1 [Infrastructure schemes](#).

NoPass integration with Salesforce

Before you begin

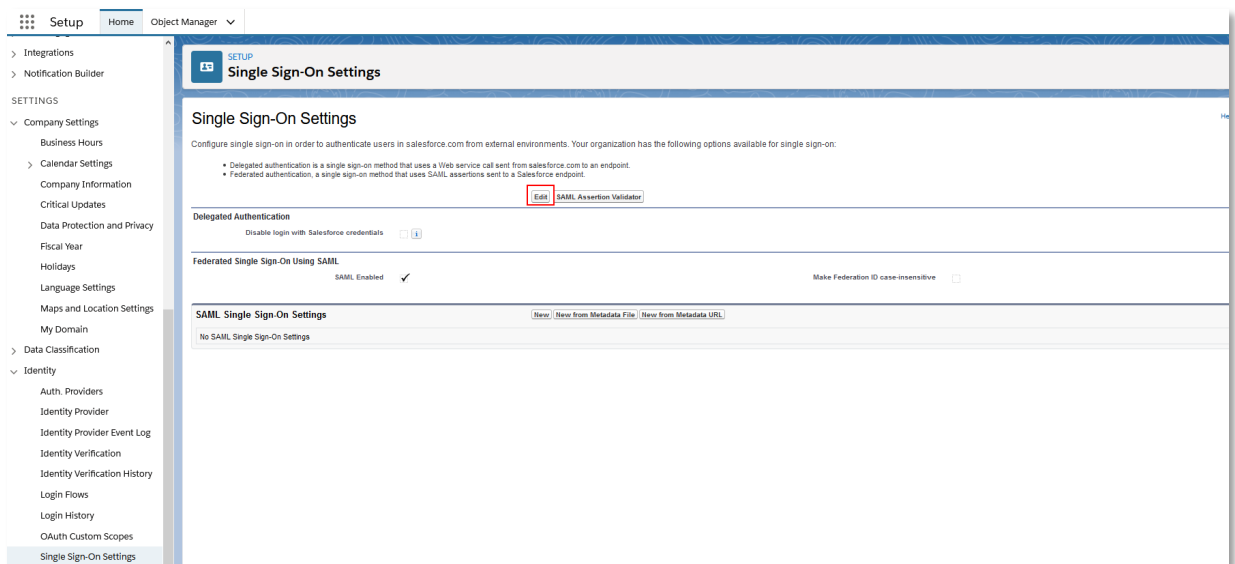
Salesforce offers the following ways to use SSO:

- Federated authentication using Security Assertion Markup Language (SAML).
- Federated authentication using OpenID Connect protocol.

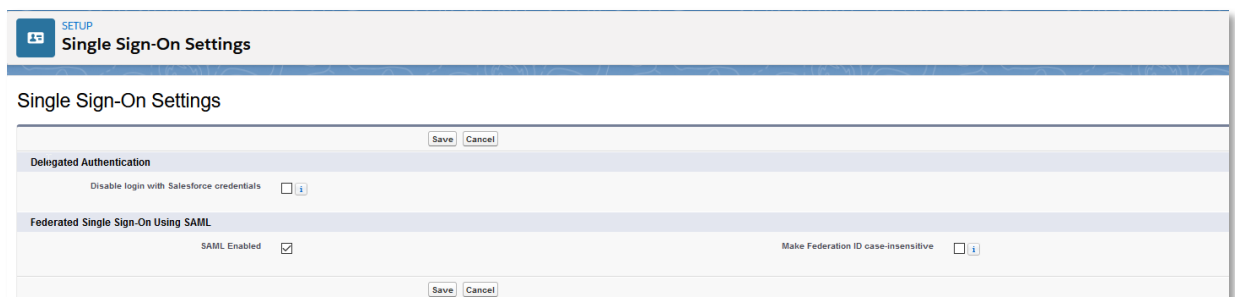
Procedure

To configure SAML for SSO, do the following:

- 1) In Salesforce, in the **Setup** tab, in the **Quick Find** box, enter **Single Sign-On Settings**, select **Single Sign-On Settings**, and then click **Edit**.



- 2) To view SAML single sign-on settings, select **SAML Enabled**, and click **Save**.



- 3) In SAML Sign-On Settings, click one of the following buttons to create a configuration:
 - **New**—to specify all settings manually.
 - **New from Metadata file**—Import SAML 2.0 settings from an XML file from your identity provider. This option reads the XML file and uses it to complete as many of the settings as possible.

- **New from Metadata URL**—Import SAML 2.0 settings from a public URL. This option reads the XML file at a public URL and uses it to complete as many of the settings as possible. The URL must be added to Remote Site Settings to access it from your Salesforce org.

- 4) Name this setting for referencing within your organization. Salesforce inserts the corresponding API value, which you can customize if necessary.
- 5) In the **Single-On Settings**, configure the following, and then click **Save**:

Issuer	It is often referred to as the Entity ID for the identity provider .
Identity Provider Certificate	Click the Browse button to locate and upload the authentication certificate issued by your identity provider. The certificate size cannot exceed 4 KB. If it does, try using a DER encoded file to reduce the size.
Request Signing Certificate	SELECT the certificate you want from the ones saved in your Certificate and Key Management settings.
Request Signature Method	Select the hashing algorithm for encrypted requests, either RSA-SHA1 or RSA-SHA256.
Assertion Decryption Certificate	<i>Optional.</i> If the identity provider encrypts SAML assertions, select the assertion decryption certificate saved in your Certificate and Key Management settings. This field is available only if your org supports multiple SSO configurations.
SAML Identity Type SAML Identity Location and other fields described in Identity Provider Values	Specify the values provided by your identity provider, as appropriate.
Service Provider Initiated Request Binding	Select the appropriate value based on the information provided by your identity provider.
Custom Error URL	specify the URL of the page that the users are directed to if there is an error during SAML login. It must be a publicly accessible page, such as a public site Visualforce page. The URL can be absolute or relative.
SAML 2.0	if your identity provider has specific login or logout pages, specify them in Identity Provider Login URL and Custom Logout URL , respectively.

- 6) If your Salesforce org has [domains](#) deployed, specify whether you want to use [the base domain](#) or the custom domain for the **Entity ID**. Share this information with your identity provider.
- 7) *Optional.* Set up Just-in-Time user provisioning. For more information, see [Enable Just-in-Time user provisioning](#) and [About Just-in-Time Provisioning for SAML](#).

SAML Single Sign-On Settings

Save Save & New Cancel

Name **keycloak** API Name **keycloak**

SAML Version 2.0

Issuer **https://keycloak.i** Entity ID **https://i**

Identity Provider Certificate **Browse...** No file selected. Current Certificate **CN=master**
Expiration: 17 Jul 2030 13:02:07 GMT

Request Signing Certificate **SelfSignedCert_1**

Request Signature Method **RSA-SHA256**

Assertion Decryption Certificate **Assertion not encrypted**

SAML Identity Type
☒ Assertion contains the User's Salesforce username
☐ Assertion contains the Federation ID from the User object
☐ Assertion contains the User ID from the User object

SAML Identity Location
☒ Identity is in the NameIdentifier element of the Subject statement
☐ Identity is in an Attribute element

Service Provider Initiated Request Binding
☐ HTTP POST
☒ HTTP Redirect

Warning: The metadata file specifies multiple bindings for the login URL.

Identity Provider Login URL **https://keycloak.i/realms/master/protocol/saml**

Custom Logout URL

Custom Error URL

Single Logout Enabled ☒

Use Selected Request Signature Method for Single Logout ☐

Identity Provider Single Logout URL **https://keycloak.i/auth/realms/master/protocol/saml**

Single Logout Request Binding
☐ HTTP POST
☒ HTTP Redirect

Warning: The metadata file specifies multiple bindings for the single logout URL.

- 8) To download the .xml file of your SAML configuration settings, click **Download Metadata**.
- 9) Open the Keycloak admin console and select the realm that you want to use.
- 10) From the left navigation bar, click **Clients** and create a new SP application.

Clients

Lookup

Client ID	Enabled	Base URL	Actions
account	True	https://keycloak.identity.us:8443/auth/realms/master/account/	Edit Export Delete
account-console	True	https://keycloak.identity.us:8443/auth/realms/master/account/	Edit Export Delete
admin-cli	True	Not defined	Edit Export Delete
broker	True	Not defined	Edit Export Delete

Create

- 11) Select the file that you downloaded earlier, and then click **Save**.

Add Client

Import View details Clear import

Client ID **https://i**

Client Protocol **saml**

Client SAML Endpoint

Save Cancel

- 12) Configure the following parameters:

Name	Provide a name for this client
Description (optional)	Provide a description
Enabled	ON
Consent Required	OFF
Client Protocol	SAML

Include AuthnStatement	ON
Sign Documents	ON
Optimize Redirect signing key lookup	OFF
Sign Assertions	ON
Signature Algorithm	RSA_SHA256
Encrypt Assertion	OFF
Client Signature Required	ON
Canonicalization Method	EXCLUSIVE
Force Name ID Format	ON
Name ID Format	Email
Root URL	Leave empty
Valid Redirect URIs	The Assertion Consumer Service URL from Service Provider Metadata

13) Under **Fine Grain SAML Endpoint Configuration**, configure the following:

Assertion Consumer Service POST Binding UR	The ACS (Assertion Consumer Service) URL from Service Provider Metadata
Logout Service Redirect Binding URL	The Single Logout URL from Service Provider Metadata

14) To redirect Salesforce login to Keycloak IdP for Single Sign On (SSO), you need to enable authentication method type. Go to **Setup**, and then select **My Domain**. In the Login Page Branding section, select **Edit**:

The screenshot shows the Salesforce Setup interface for the 'My Domain' configuration. The left sidebar contains navigation options like 'Setup', 'Home', 'Object Manager', and various settings categories. The main content area is titled 'My Domain' and shows a progress bar for 'Step 3 Domain Ready for Testing'. The progress bar has four stages: 'Choose Domain Name', 'Domain Registration Pending', 'Domain Ready for Testing', and 'Domain Deployed to Users'. Below the progress bar, it displays the domain name 'identite.my.salesforce.com' and a 'Log in' button. The 'Authentication Configuration' section is visible, with an 'Edit' button highlighted in red.

15) Enable another authentication type:

Authentication Configuration

Authentication Configuration
Save Cancel Reset to Default

Login Page Type
Standard

Authentication Service
☒ Login Form
☐ keycloak

Logo File
Browse... No file selected.

Background Color
#F4F6F9

Right Frame URL

Use the native browser for user authentication on iOS
☐

Use the native browser for user authentication on Android
☐

Save Cancel Reset to Default

salesforce

Username

Password

Log In

☐ Remember me

[Forgot Your Password?](#)

Or log in using:

keycloak

For more information about Salesforce SAML configuration, see [Configure Salesforce as the Service Provider with SAML Single Sign-On](#).

What to read next

[NoPass integration with Confluence](#)

NoPass integration with Confluence

Before you begin

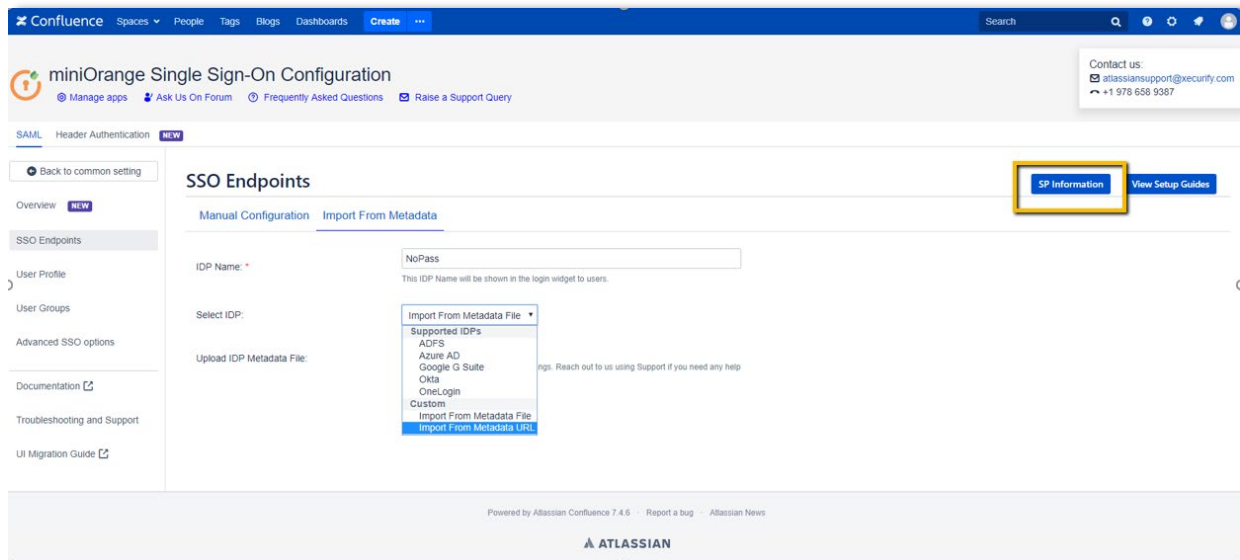
To have access to SSO in Confluence, it is necessary to install an additional application. You can download the application at [Atlassian Marketplace](#). It is also available in the Manage apps menu of the Confluence main window.

For more information about configuring Confluence SAML, see [SAML Single Sign On \(SSO\) into Confluence using Jboss Keycloak](#).

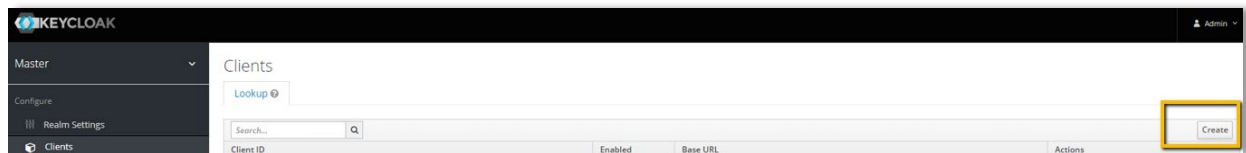
Procedure

To configure SAML for SSO using Confluence SSO/Single Sign On, SAML SSO by miniOrange do the following:

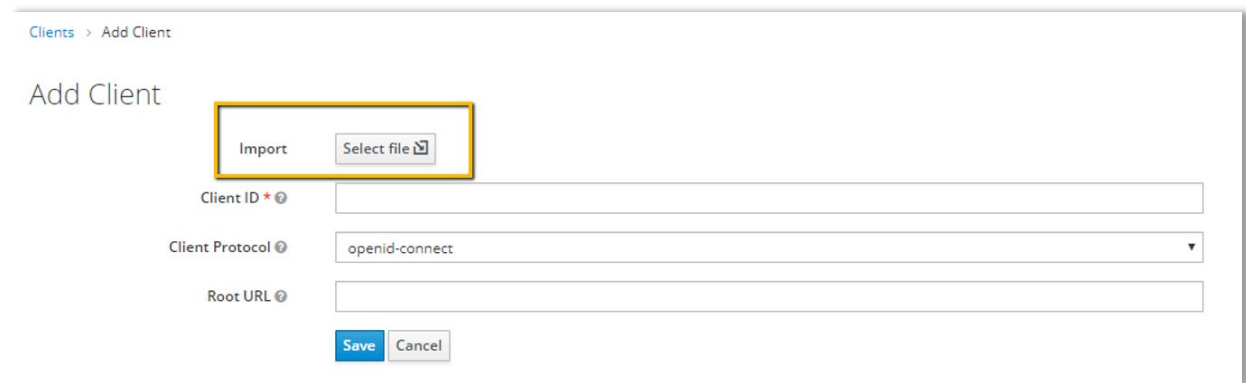
- 1) Go to **miniOrange Single Sign-On Configuration**. In the left pane, select **SSO Endpoints > Import From Metadata**, and do the following:
 - Import the Keycloak metadata file into the Confluence SSO configuration application.
 - Click **SP Information** to download the miniOranges's Metadata XML (or copy the Metadata URL). You will need it later.



- 2) In the Keycloak admin console, go to your realm > the **Clients** tab. Click **Create** to add a new client.



- 3) On the **Add client** tab, click **Select file** to import the Metadata XML (or Metadata URL) from step 2, and then click **Save**.



Note: If import failed, save the metadata file/URL manually, and delete the following tag from it:

```
<md:EntitiesDescriptor ...>
</md:EntitiesDescriptor>
```

- 4) On the **Settings** tab, set the following parameters:

Client ID	ID from the metadata file
Name	Provide a name for this client
Description (optional)	Provide a description
Enabled	ON
Always Display in Console	OFF
Consent Required	OFF
Login Theme	ON
Client Protocol	SAML
Include AuthnStatement	ON
Include OneTimeUse Condition	OFF
Sign Documents	ON
Optimize REDIRECT signing key lookup	OFF
Sign Assertions	ON

Signature Algorithm	RSA_SHA256
SAML Signature Key Name	KEY-ID
Canonicalization Method	EXCLUSIVE
Encrypt Assertions	OFF
Client Signature Required	ON
Force POST Binding	ON
Front Channel Logout	ON
Force Name ID Format	OFF
Name ID Format	<i>email</i>
Root URL	From the metadata file
Valid Redirect URLs	From the metadata file
Base URL	Leave empty
Master SAML Processing URL	Leave empty
IDP Initiated SSO URL Name	Leave empty
IDP Initiated SSO Relay State	Leave empty

Realm Settings

Clients

Client Scopes

Roles

Identity Providers

User Federation

Authentication

Manage

Groups

Users

Sessions

Events

Import

Export

Settings

SAML Keys

Roles

Client Scopes

Mappers

Scope

Sessions

Offline Access

Clustering

Installation

Client ID

https://corp.psa.inc/confluence

Name

Description

Enabled

ON

Always Display in Console

OFF

Consent Required

OFF

Login Theme

Client Protocol

saml

Include AuthnStatement

ON

Include OneTimeUse Condition

OFF

Sign Documents

ON

Optimize REDIRECT signing key lookup

OFF

Sign Assertions

ON

Signature Algorithm

RSA_SHA256

SAML Signature Key Name

KEY_ID

Canonicalization Method

EXCLUSIVE

Encrypt Assertions

OFF

Client Signature Required

ON

Force POST Binding

ON

Front Channel Logout

ON

Force Name ID Format

OFF

Name ID Format

email

Root URL

Valid Redirect URIs

https://corp.psa.inc/confluence/plugins/servlet/saml/auth

Base URL

Master SAML Processing URL

IDP Initiated SSO URL Name

IDP Initiated SSO Relay State

> Fine Grain SAML Endpoint Configuration

> Advanced Settings

< Authentication Flow Overrides

Browser Flow

NoPass

Save

Cancel

- 5) Click **Authentication Flow Overrides**. From the **Browser Flow** list, select **NoPass**, and then click **Save**.

> Fine Grain SAML Endpoint Configuration

> Advanced Settings

< Authentication Flow Overrides

Browser Flow

NoPass

Save

Cancel

- 6) On the **Mappers** tab, click **Create** to add a new Mapper.

- 7) In the **Create Protocol Mapper** window, from **Mapper type**, select **User Attribute**, and click **Save**.

Clients > <https://corp.psa.inc/confluence> > Mappers > Create Protocol Mappers

Create Protocol Mapper

Protocol

Name

Mapper Type

- Javascript Mapper
- Audience Resolve
- User Session Note
- Group list
- Audience
- Role Name Mapper
- Role list
- User Property
- Hardcoded attribute
- User Attribute**
- Hardcoded role

Script

Single Value Attribute ☒

Friendly Name

SAML Attribute Name

SAML Attribute NameFormat

- 8) In the **Name** field, type *name*, and click **Save**.

[Clients](#) > <https://corp.psa.inc/confluence> > [Mappers](#) > [NameID](#)

NameID

Protocol ?	<input type="text" value="saml"/>
ID	<input type="text" value="d698d28a-97e7-4a42-85ca-79dc3ab32939"/>
Name ?	<input type="text" value="NameID"/>
Mapper Type ?	<input type="text" value="User Attribute"/>
User Attribute ?	<input type="text" value="NameID"/>
Friendly Name ?	<input type="text"/>
SAML Attribute Name ?	<input type="text" value="NameID"/>
SAML Attribute NameFormat ?	<input type="text" value="Basic"/>
Aggregate attribute values ?	<input type="checkbox"/> OFF
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

- 9) Go to **miniOrange Single Sign-On Configuration > SSO Endpoints > Manual Configuration**. At the bottom of the page, click **Test Configuration**.

Overview **NEW**

SSO Endpoints

User Profile

User Groups

Advanced SSO options

Documentation

Troubleshooting and Support

UI Migration Guide

Manual Configuration Import From Metadata

Click on **Import From Metadata** to fetch IDP's settings from IDP metadata URL or XML file.

Need help with the configuration? Contact us using the **support/Feedback** widget or write to us at info@xecurify.com and we will help you set i

ACS URL for IDP-Initiated SSO

Update this ACS URL in IDP if you want to use IDP-Initiated SSO (optional). For copying click on ACS url.

IDP Name: * NoPass

This IDP Name will be shown in the login widget to users.

IDP Entity ID / Issuer: *

Enter the Entity ID or Issuer value of your Identity Provider. You can find its value in the entityID attribute of EntityDescr

Send Signed Requests: ☒

It is recommended to keep it checked. Uncheck, only if your IdP is not accepting Signed SAML Request.

SSO Binding Type: ☒ Use HTTP-Redirect Binding for SSO ☐ Use HTTP-Post Binding for SSO

Single Sign On URL: *

Enter the Single Sign-on Service endpoint of your Identity Provider. You can find its value in SingleSignOnService tag (E

SLO Binding Type: ☒ Use HTTP-Redirect Binding for SLO ☐ Use HTTP-Post Binding for SLO

Single Logout URL: *

Enter the Single Logout Service endpoint of your Identity Provider. You can find its value in SingleLogoutService tag in S

NameID Format: urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified

Select the name identifier format supported by the IdP. Select unspecified by default.

Authentication Context Class: None

Authentication Context Class is a means for a SP to ask the IDP to authenticate the user with a specific authentication r

IDP Signing Certificate: *

This Certificate is used to validate SAML response from Identity Provider. You can find its value in X509Certificate tag in content here.

Save Test Configuration

The successful result looks as follows:

TEST SUCCESSFUL

Hello, admin

ATTRIBUTES RECEIVED:

ATTRIBUTE NAME	ATTRIBUTE VALUE
Role	query-realms
NameID	admin

Done

Authentication(SAML) Request

Your Confluence environment is protected with NoPass now.

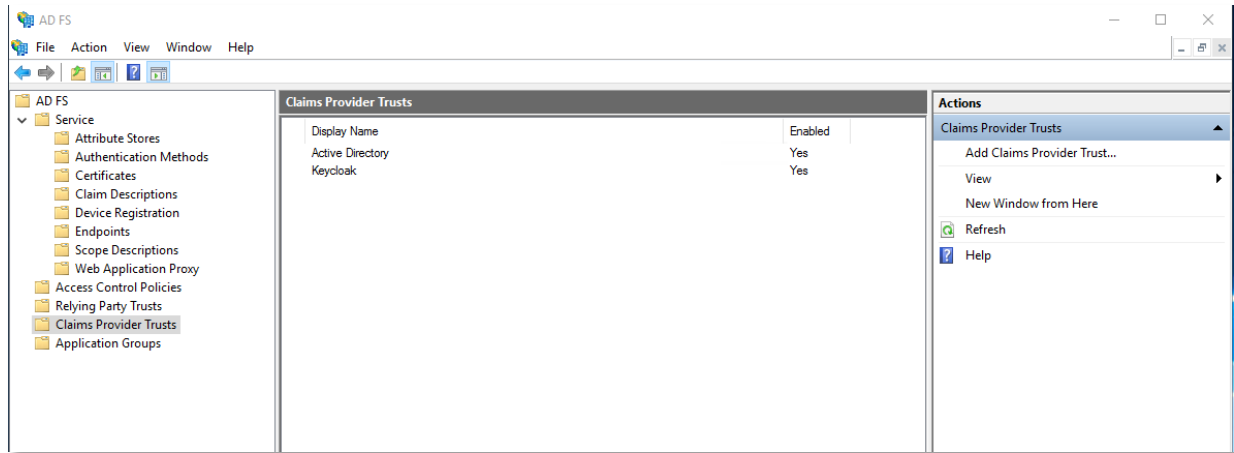
What to read next

[AD FS as a service provider](#)

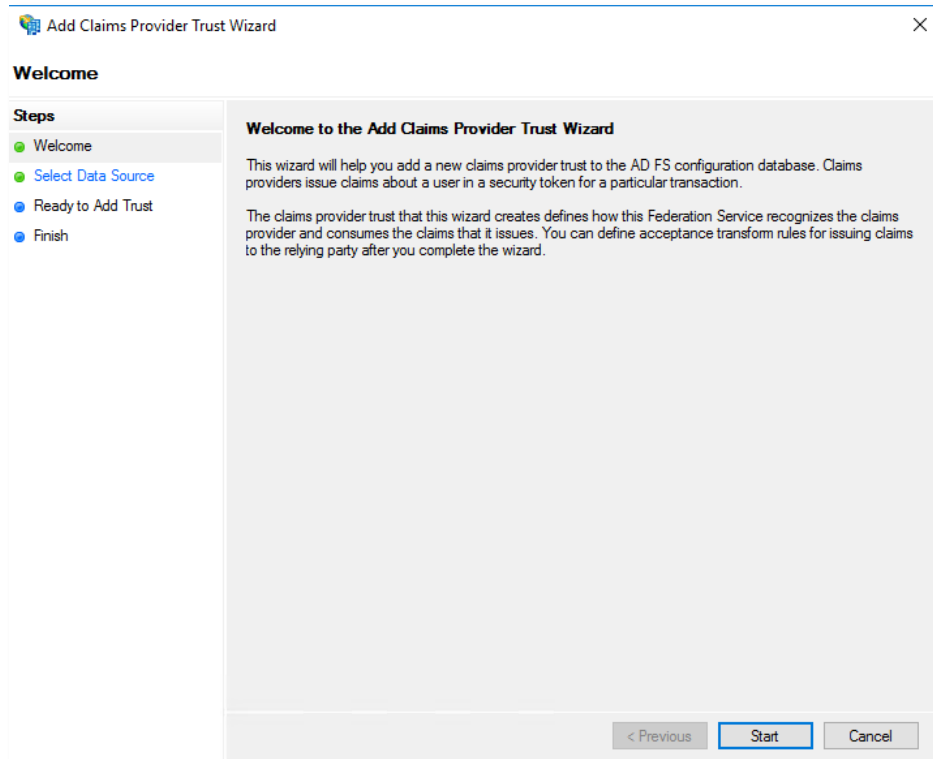
AD FS as a service provider

Procedure

- 1) In the AD FS **Management console**, on the left pane, select the **Claims Provider Trusts** folder.



- 2) On the right pane, select **Add Claims Provider Trust** to open Wizard.
- 3) In **Welcome**, select **Start**.



- 4) In **Select Data Source**, select the following options, as appropriate:

- Using metadata URL
- Using metadata XML
- Manual configuration

The screenshot shows the 'Add Claims Provider Trust Wizard' dialog box. The title bar reads 'Add Claims Provider Trust Wizard'. The 'Select Data Source' step is active, indicated by a green dot in the 'Steps' pane on the left. The 'Steps' pane lists: Welcome (green dot), Select Data Source (green dot), Ready to Add Trust (blue dot), and Finish (blue dot). The main area contains the instruction: 'Select an option that this wizard will use to obtain data about this claims provider:'. There are three radio button options: 1. 'Import data about the claims provider published online or on a local network' (selected). Description: 'Use this option to import the necessary data and certificates from a claims provider organization that publishes its federation metadata online or on a local network.' Input: 'Federation metadata address (host name or URL):' with a text box and example: 'fs.fabrikam.com or https://fs.fabrikam.com/'. 2. 'Import data about the claims provider from a file'. Description: 'Use this option to import the necessary data and certificates from a claims provider organization that has provided its federation metadata in a file.' Input: 'Federation metadata file location:' with a text box and a 'Browse...' button. 3. 'Enter claims provider trust data manually'. Description: 'Use this option to manually input the necessary data about this claims provider organization.' At the bottom are buttons: '< Previous', 'Next >', and 'Cancel'.

- 5) To configure Claims Provider Trust manually, do the following:
- a. In the **Specify Display Name**, enter display name and notes.

The screenshot shows a Windows-style dialog box titled "Add Claims Provider Trust Wizard". On the left, a "Steps" pane lists the following steps: Welcome, Select Data Source, Specify Display Name (which is highlighted with a green dot and bold text), Configure URL, Configure Identifier, Configure Certificates, Ready to Add Trust, and Finish. The main area of the dialog is titled "Specify Display Name" and contains the instruction "Type the display name and any optional notes for this claims provider." Below this instruction, there is a "Display name:" label followed by a single-line text input field. Underneath that is a "Notes:" label followed by a multi-line text area. At the bottom right of the dialog, there are three buttons: "< Previous", "Next >", and "Cancel".

- b. In **Configure URL**, enter a service provider URL.

Add Claims Provider Trust Wizard

Configure URL

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Configure URL**
- Configure Identifier
- Configure Certificates
- Ready to Add Trust
- Finish

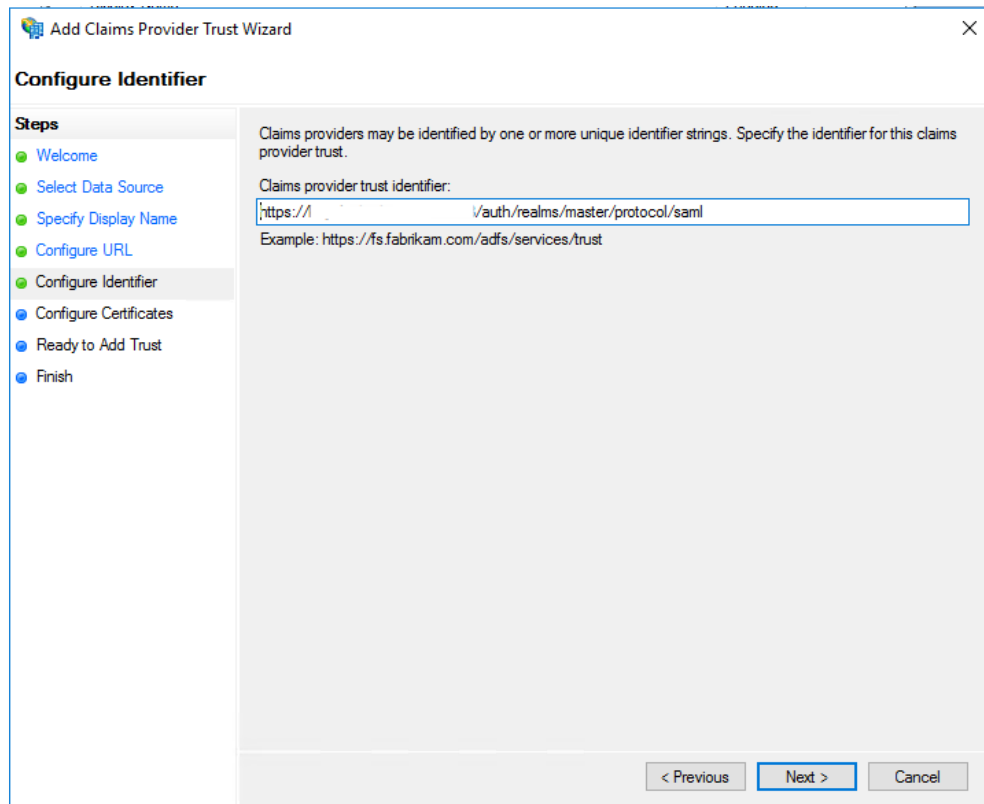
On an AD FS 1.0 or 1.1 Federation Service, the Federation Service endpoint URL is the WS-Federation Passive URL. Specify the login URL from AD FS to use as the WS-Federation Passive URL.

WS-Federation Passive URL:

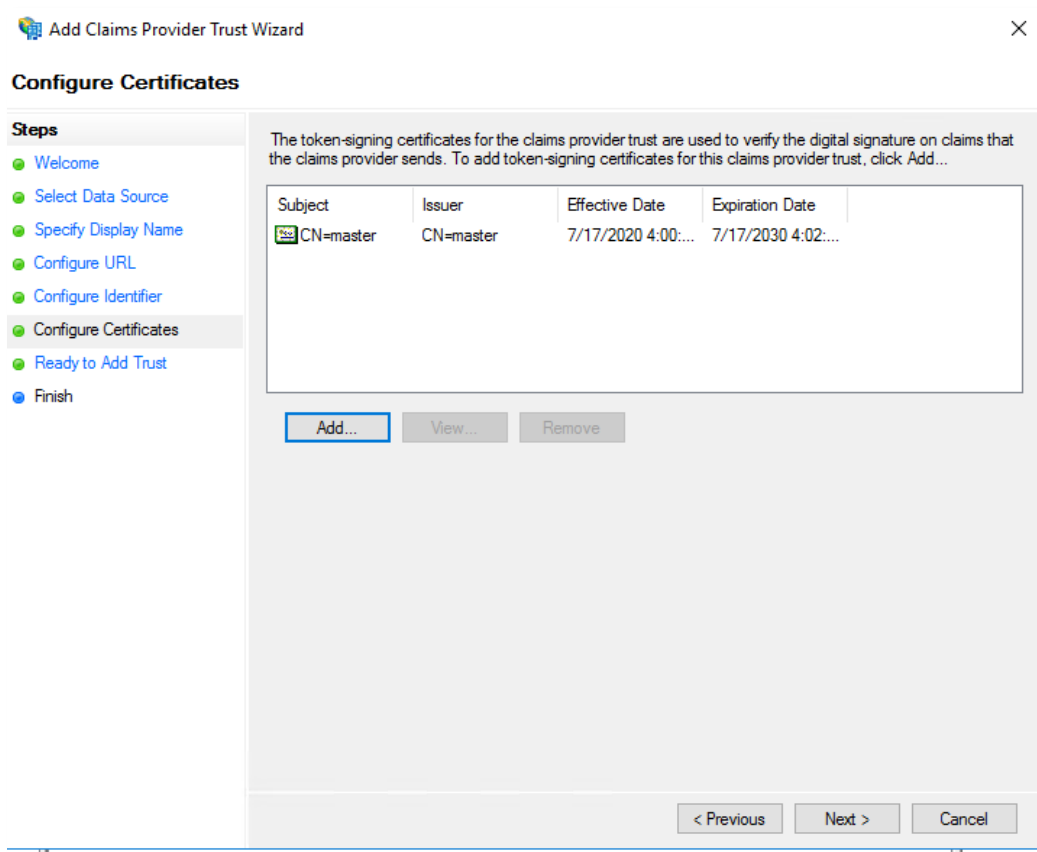
Example: https://www.fabrikam.com/adfs/ls/

< Previous **Next >** Cancel

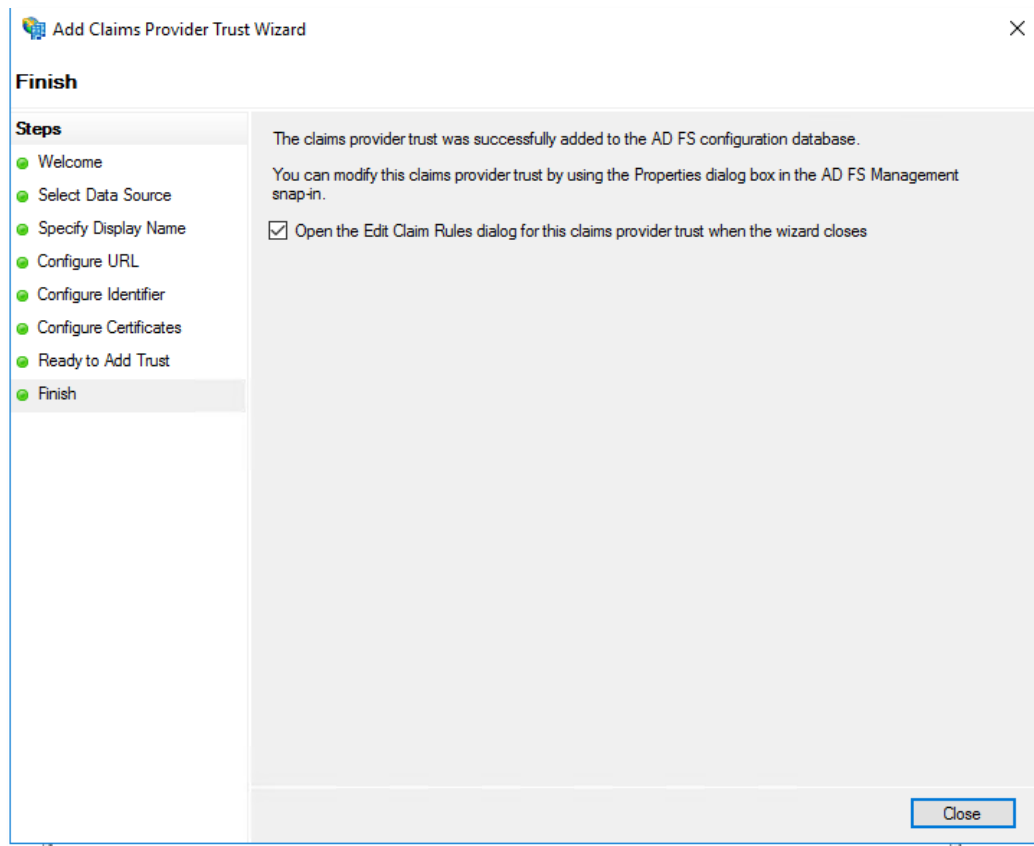
- c. In **Configure Identifier**, enter claims provider trust identifier.



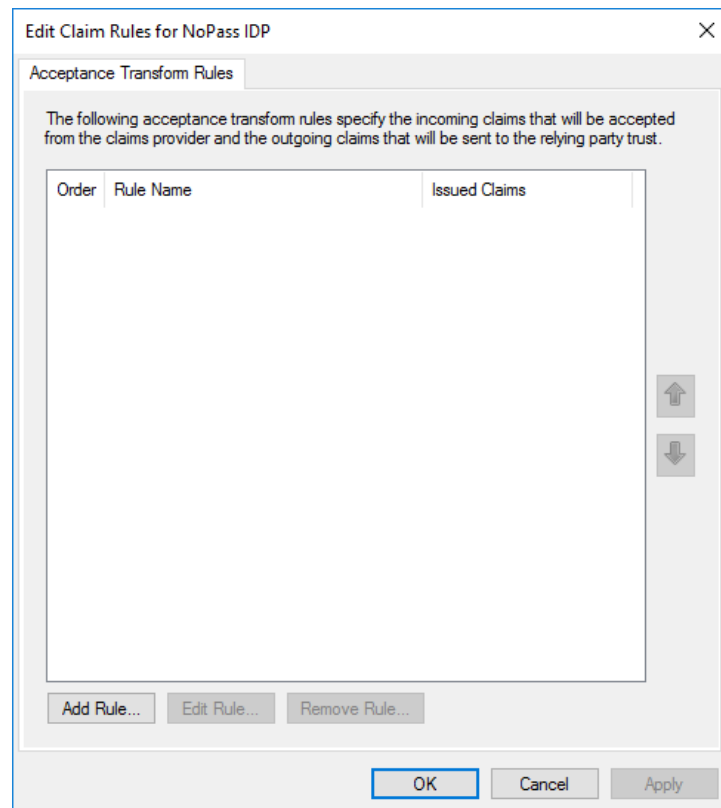
- d. In **Configure Certificates**, add the token-signing certificate from Keycloak provider.



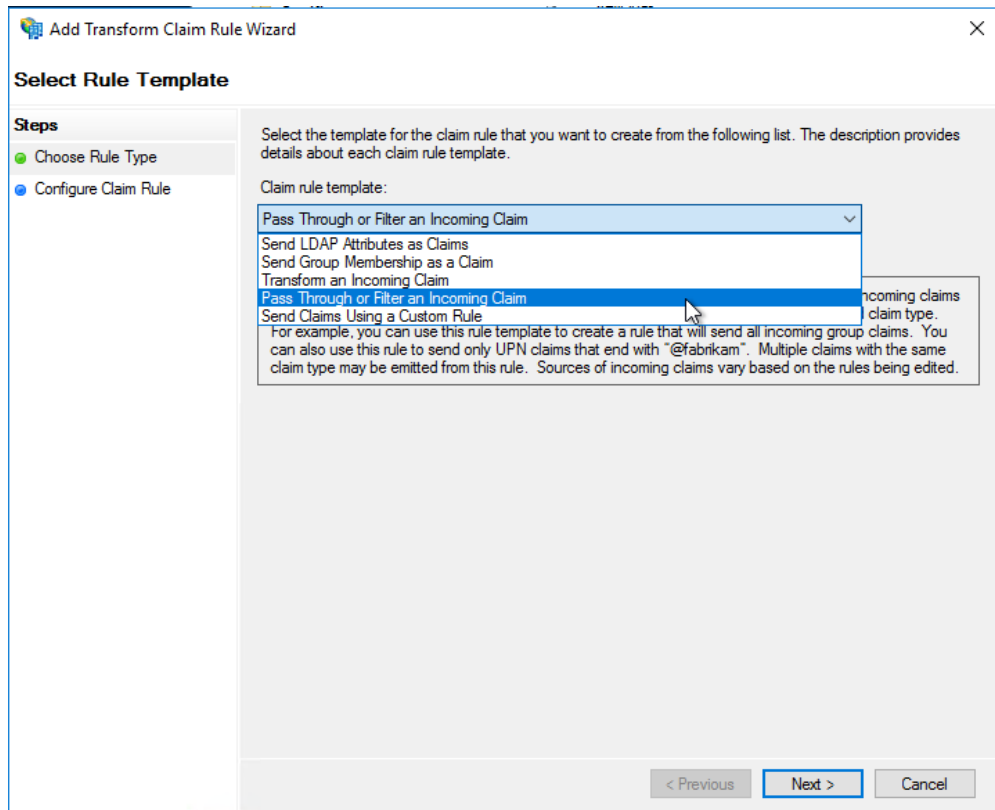
- e. Check the ready status and click **Next**.
- f. In **Finish**, select **Open the Edit Claim Rules dialog...**, and then click **Close**.



- g. In the **Edit Claim Rules for NoPass IDP** dialog box, select **Add Rule**.



- h. In **Select Rule Template**, from the **Claim rule template** list, select **Pass Through of Filter Incoming Claim**, and then select **Next**.



- i. In the **Configure Rule** dialog box, in **Choose Rule Type**, configure the following parameters:
 - Name ID
 - Email
 - UPN

Add Transform Claim Rule Wizard

Configure Rule

Steps

- Choose Rule Type
- Configure Claim Rule

You can configure this rule to pass through or filter an incoming claim. You can also configure this rule to filter claims that are generated by previous rules. Specify the claim type and whether only some claim values or all claim values should pass through.

Claim rule name:

Rule template: Pass Through or Filter an Incoming Claim

Incoming claim type:

Incoming name ID format:

☒ Pass through all claim values
☐ Pass through only a specific claim value
 Incoming claim value:
☐ Pass through only claim values that match a specific email suffix value:
 Email suffix value:
 Example: fabrikam.com
☐ Pass through only claim values that start with a specific value:
 Starts with:
 Example: FABRIKAM\

< Previous **Finish** Cancel

Add Transform Claim Rule Wizard

Configure Rule

Steps

- Choose Rule Type
- Configure Claim Rule

You can configure this rule to pass through or filter an incoming claim. You can also configure this rule to filter claims that are generated by previous rules. Specify the claim type and whether only some claim values or all claim values should pass through.

Claim rule name:

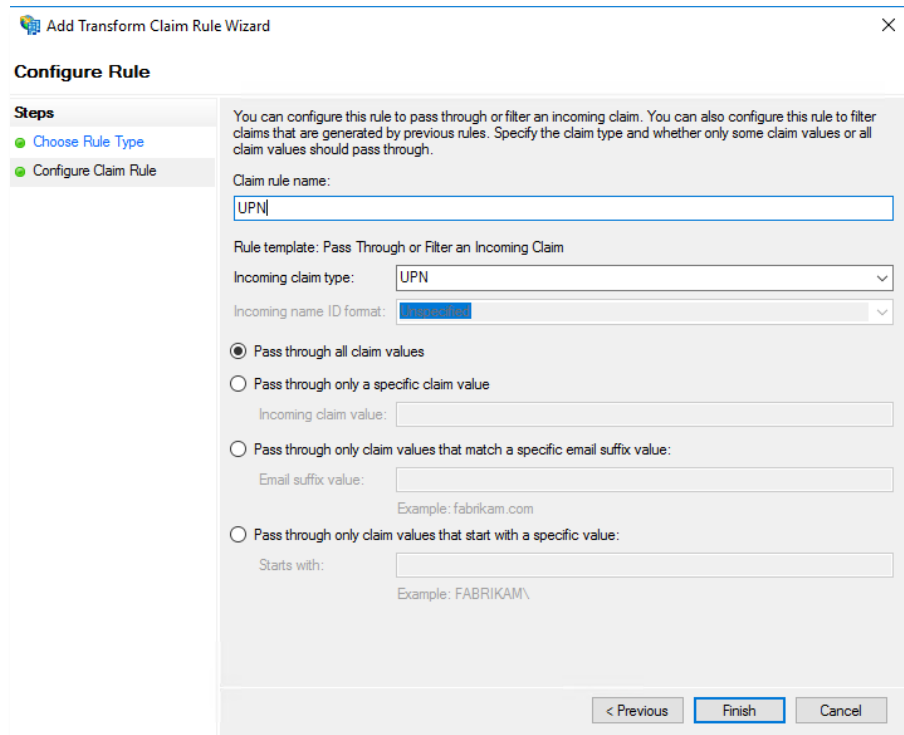
Rule template: Pass Through or Filter an Incoming Claim

Incoming claim type:

Incoming name ID format:

☒ Pass through all claim values
☐ Pass through only a specific claim value
 Incoming claim value:
☐ Pass through only claim values that match a specific email suffix value:
 Email suffix value:
 Example: fabrikam.com
☐ Pass through only claim values that start with a specific value:
 Starts with:
 Example: FABRIKAM\

< Previous **Finish** Cancel



Add Transform Claim Rule Wizard

Configure Rule

Steps

- Choose Rule Type
- Configure Claim Rule

You can configure this rule to pass through or filter an incoming claim. You can also configure this rule to filter claims that are generated by previous rules. Specify the claim type and whether only some claim values or all claim values should pass through.

Claim rule name:

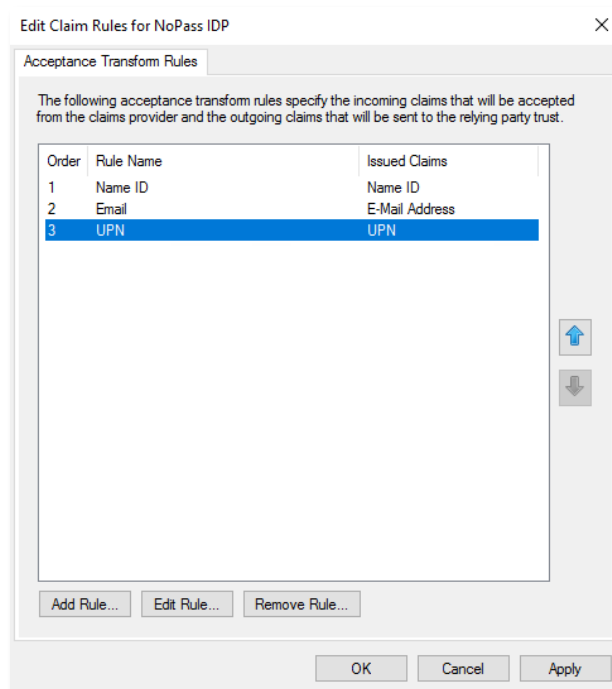
Rule template: Pass Through or Filter an Incoming Claim

Incoming claim type:

Incoming name ID format:

☒ Pass through all claim values
☐ Pass through only a specific claim value
 Incoming claim value:
☐ Pass through only claim values that match a specific email suffix value:
 Email suffix value:
 Example: fabrikam.com
☐ Pass through only claim values that start with a specific value:
 Starts with:
 Example: FABRIKAM\

< Previous **Finish** Cancel



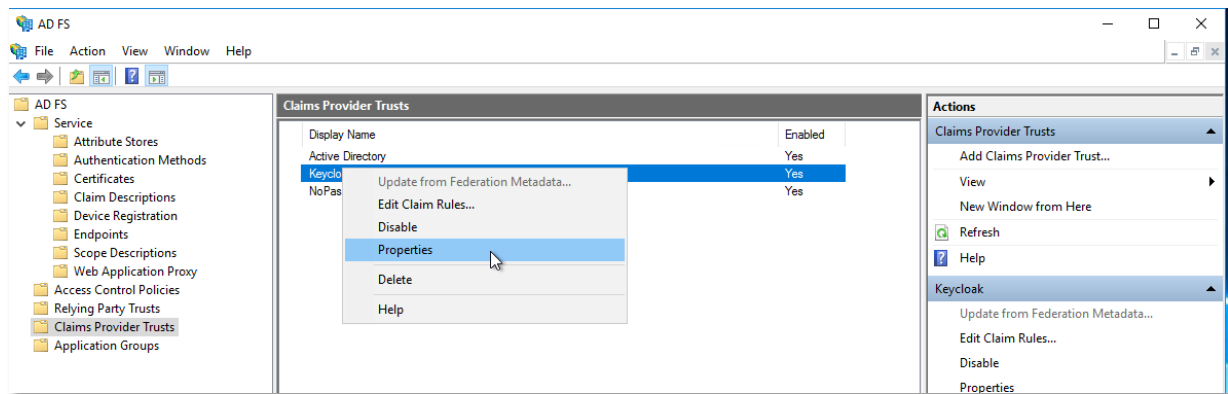
Edit Claim Rules for NoPass IDP

Acceptance Transform Rules

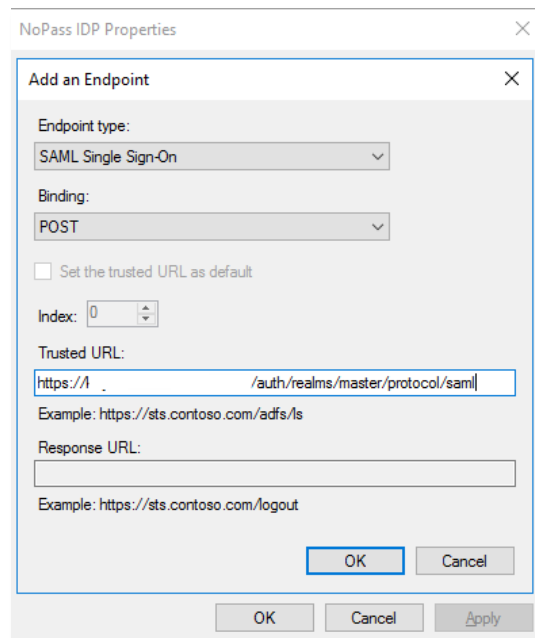
The following acceptance transform rules specify the incoming claims that will be accepted from the claims provider and the outgoing claims that will be sent to the relying party trust.

Order	Rule Name	Issued Claims
1	Name ID	Name ID
2	Email	E-Mail Address
3	UPN	UPN

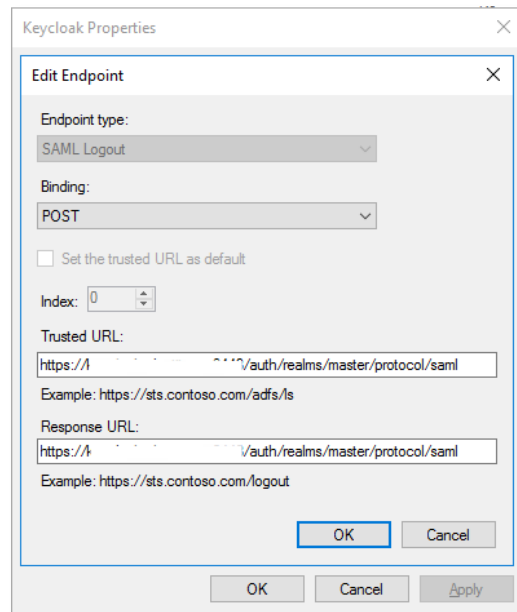
- 6) In the **AD FS Management** console, select the Claims Provider Trusts folder, and under Keycloak select **Properties**.



- 7) In the **NoPass IDP Properties**, select **Endpoints**, and add the following URLs:
- In **Add and Endpoint**, in the **Endpoint type** list, select **SAML Single Sign-On**. In the **Binding** list, select **POST**. In the **Trusted URL** field, enter your service provider URL.



- In **Edit Endpoint**, in the **Endpoint type** list, select **SAML Logout**. In **Binding**, select **POST**. In the **Trusted URL**, enter your service provider URL.



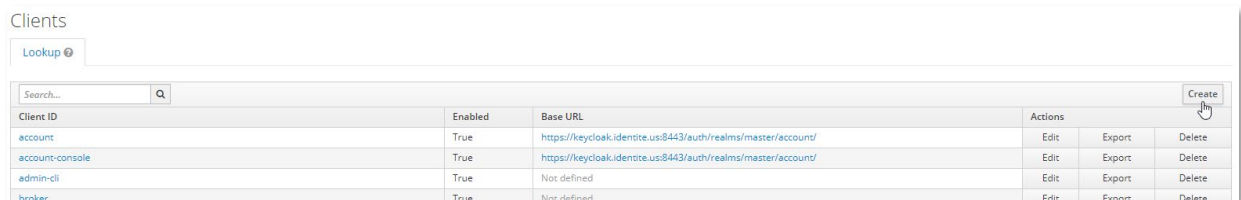
j. Export the AD FS SAML metadata to XML.

<https://<adfs.domain.name>/FederationMetadata/2007-06/FederationMetadata.xml>

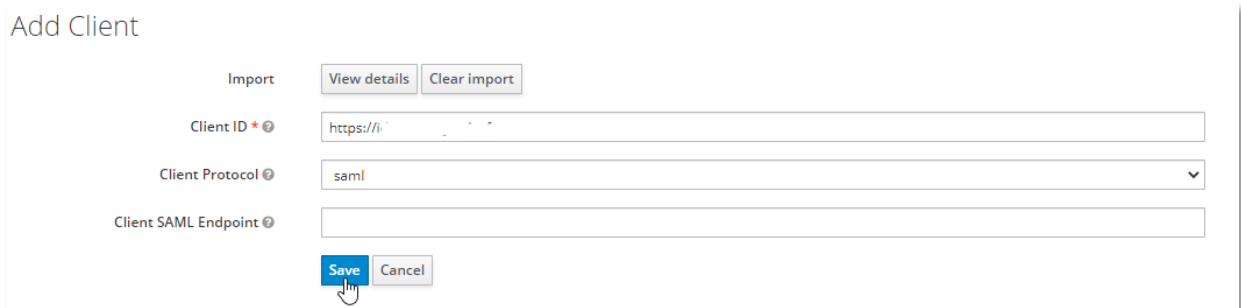
k. Import the AD FS SAML metadata to Keycloak.

8) In the **Keycloak admin console**, select the realm you want to use.

9) In the left navigation bar, select **Clients**, and create a new SP application.



10) Select the file that you have downloaded earlier and click **Save**.



11) Configure the following parameters:

Name	Provide a name for this client
Description (optional)	Provide a description
Enabled	ON
Consent Required	OFF
Client Protocol	SAML
Include AuthnStatement	ON
Sign Documents	ON
Optimize Redirect signing key lookup	OFF
Sign Assertions	ON
Signature Algorithm	RSA_SHA256
Saml Signature Key Name	CERT_SUBJECT
Encrypt Assertion	OFF
Client Signature Required	OFF
Canonicalization Method	EXCLUSIVE
Force Name ID Format	ON
Name ID Format	Email
Root URL	Leave empty
Valid Redirect URIs	The Assertion Consumer Service URL from Service Provider Metadata

12) Under Fine Grain SAML Endpoint Configuration, configure the following:

Assertion Consumer Service POST Binding UR	The ACS (Assertion Consumer Service) URL from Service Provider Metadata
Logout Service Redirect Binding URL	The Single Logout URL from Service Provider Metadata



Note: To login to AD FS with SSO use the following URL:

```
https://adfs01.domain.name/adfs/ls/idpinitiatedsignon
```

Http://r.../adfs/services/trust

Settings Roles Client Scopes Mappers Scope Sessions Offline Access Clustering Installation

Client ID

Name

Description

Enabled ☒

Consent Required ☐

Login Theme

Client Protocol

Include AuthnStatement ☒

Include OneTimeUse Condition ☐

Sign Documents ☒

Optimize REDIRECT signing key lookup ☐

Sign Assertions ☒

Signature Algorithm

SAML Signature Key Name

Canonicalization Method

Encrypt Assertions ☐

Client Signature Required ☐

Force POST Binding ☒

Front Channel Logout ☒

Force Name ID Format ☐

Name ID Format

Root URL

Valid Redirect URIs

What to read next

[NoPass integration with Box](#)

NoPass integration with Box

To implement this integration, you will need preconfigured Keycloak with SAML 2.0.

For Keycloak configuration instructions, see [Set up service providers with Keycloak](#).

Before you begin

- Navigate to the **Setting Up Single Sign-On (SSO) for Your Enterprise** page at <https://support.box.com/hc/en-us/articles/360043696514-Setting-Up-Single-Sign-On-SSO-for-Your-Enterprise> and read the instructions.

Procedure

- 1) Form a request to Box support using one of the following:
 - On the same page, in the **What Box needs from your identity provider** table select **Other/Custom IdPs**, and follow the link:

Other/Custom IdPs	Please contact your IdP directly to assist in obtaining metadata file OR entity id, redirect URL, and signing certificate. Once obtained, use this information to fill out the Box SSO Setup Support Form .	
-------------------	---	--

- Go to https://support.box.com/hc/enus/requests/new?ticket_form_id=360002612594.
- 2) On the **Box Support** page, in the **Who is your Identity Provider** section, select **Other with Metadata** as shown

Who is your Identity Provider? *

-
- ADFS
- Azure
- Okta
- OneLogin
- Other w/o Metadata
- Other with Metadata

Helpful information to include: 1) What steps can be followed to reproduce this? 2) When did you first see the issue?

3) Enter your organization's Box Subdomain.

Box Subdomain *

Ex. acme.box.com

4) Fill in the required attributes, make sure you make a note of the set attributes, we will later need them to map out these attributes in IdentiTè Keycloak.

What is the attribute for the user's email? *

Ex. "SAML_SUBJECT" "emailaddress"

What is the attribute for groups?

If using groups, include the attribute here

What is the attribute for the user's first name?

Ex. "firstName", "givenname"

What is the attribute for the user's last name?

Ex. "lastName", "surname"

- 5) Log in to your Identity Keycloak to get your Identity Provider's SAML metadata from **Realm Settings**.

The screenshot shows the Keycloak Admin Console interface. On the left is a sidebar with navigation options: Sales, Configure, Realm Settings, Clients, Client Scopes, Roles, Identity Providers, User Federation, Authentication, Manage, Groups, Users, and Sessions. The main content area is titled 'Sales' and has tabs for General, Login, Keys, Email, Themes, Cache, Tokens, Client Registration, and Security Defenses. The 'General' tab is active, showing fields for Name (sales), Display name (sales), HTML Display name (Identite SSO), Frontend URL, Enabled (ON), and User-Managed Access (OFF). The 'Endpoints' section is expanded, showing 'OpenID Endpoint Configuration' and 'SAML 2.0 Identity Provider Metadata', with the latter highlighted by a red rectangle. 'Save' and 'Cancel' buttons are at the bottom.

- 6) Upload this file into the **Attachment** section on the **Box SSO Support Form**, and then submit the form.

Attachments *

Add file or drop files here

- 7) In Box, on the **Setting Up Single Sign-On (SSO) for Your Enterprise** page at <https://support.box.com/hc/en-us/articles/360043696514-Setting-Up-Single-Sign-On-SSO-for-Your-Enterprise>, click the **Box Metadata File** and save it on your computer.

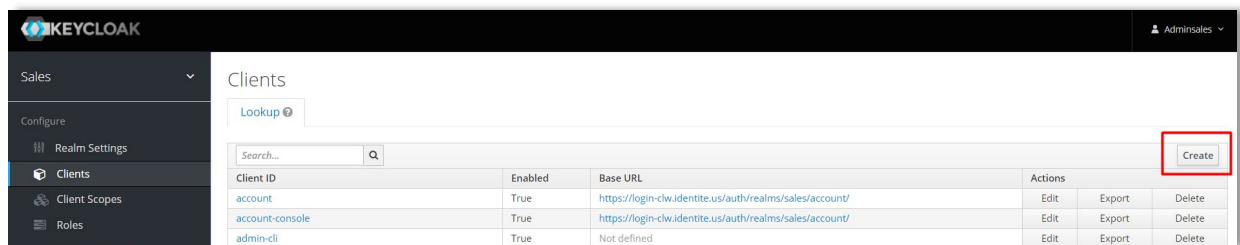
What you need from Box to set up your connection

- Entity ID: box.net
- Security Token Consumer URL: <https://sso.services.box.net/sp/ACS.saml2>
- Public Certificate

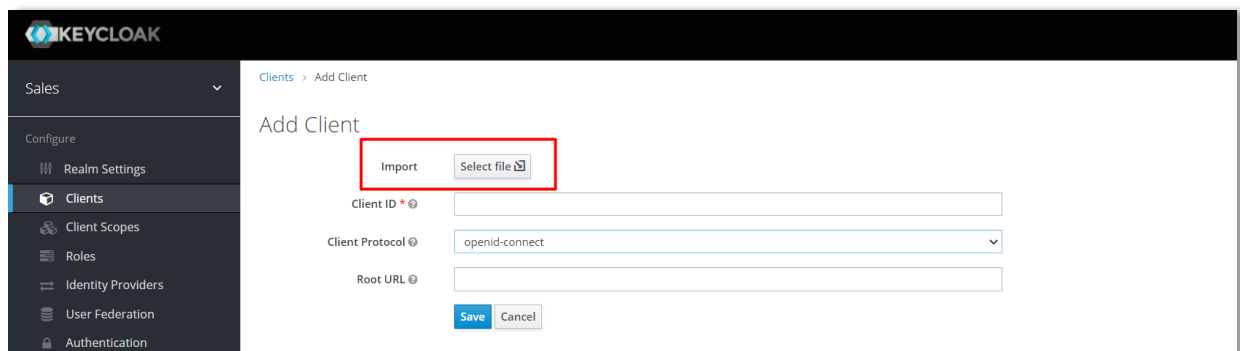
OR

- [Box Metadata File](#)

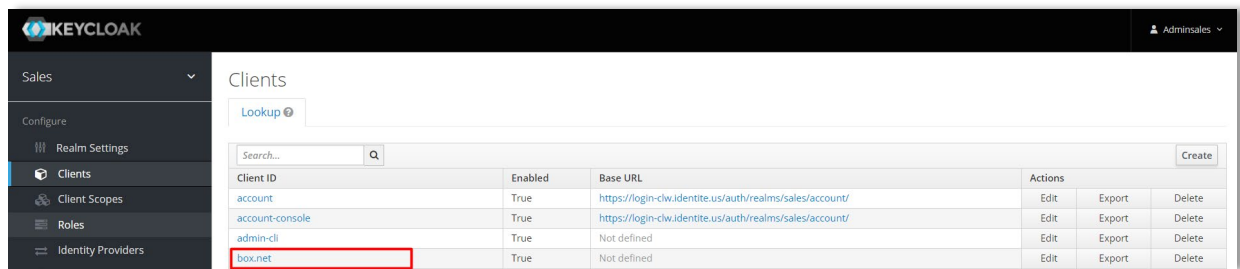
- 8) Enter your Identite Keycloak. On the **Clients** menu, create a new Client.



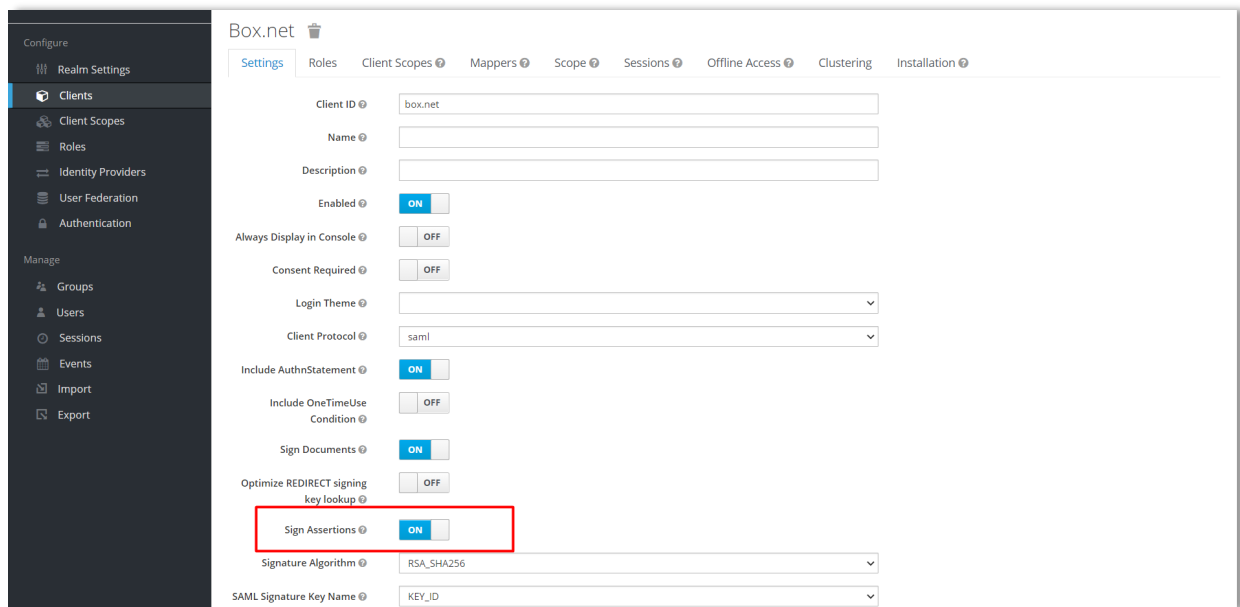
- 9) On the **Add Client** tab, in **Import**, click **Select file**, and locate the Box Metadata File that you saved during step 7. This file can also be found at <https://cloud.app.box.com/s/9y0zm1sqgvkxe8ha2qa3dfhwoivpoyy4>.



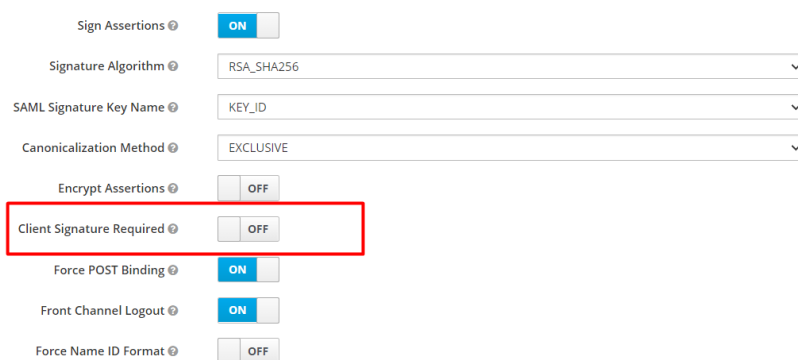
- 10) Once added, you will be directed to the **Box Client settings** page or you can select it manually from your **Clients** section.



- 11) In the **Box Client** section, scroll down, and switch on **Sign Assertions**.



- 12) Scroll down and switch off **Client Signature Required**.



- 13) In **Name ID Format**, select **email**, and then click **Save**.

Force POST Binding ☒ ON

Front Channel Logout ☒ ON

Force Name ID Format ☐ OFF

Name ID Format

Root URL

Valid Redirect URIs

Base URL

Master SAML Processing URL

IDP Initiated SSO URL Name

IDP Initiated SSO Relay State

14) In the **Clients** menu, on the **Mappers** tab, select **Create**.

Sales > Clients > box.net

Box.net

Settings Roles Client Scopes **Mappers** Scope Sessions Offline Access Clustering Installation

Search...

Create Add Builtin

15) On **Create Protocol Mapper**, from **Mapper Type**, select **User Attributes**.

Sales > Clients > box.net > Mappers > Create Protocol Mappers

Create Protocol Mapper

Protocol

Name

Mapper Type

Script

16) Create user attributes that you had set in step 5. You need to create three separate attributes:

- Email
- First name
- Last name

Make sure, the attributes set in step 5 are identical to **Name** and **SAML Attribute Name** on the attribute creation page and then save these attributes.

KEYCLOAK

Sales

Configure

Realm Settings

Clients

Client Scopes

Roles

Identity Providers

User Federation

Authentication

Manage

Groups

Users

Sessions

Events

Import

Export

Clients > box.net > Mappers > emailAttribute

EmailAttribute

Protocol

saml

ID

71064db7-c9cc-4178-bfeb-1838a8c0c2da

Name

emailAttribute

Mapper Type

User Attribute

User Attribute

email

Friendly Name

SAML Attribute Name

emailAttribute

SAML Attribute NameFormat

Select One...

Aggregate attribute values

OFF

Save

Cancel

KEYCLOAK

Sales

Configure

Realm Settings

Clients

Client Scopes

Roles

Identity Providers

User Federation

Authentication

Manage

Groups

Users

Sessions

Events

Import

Export

Clients > box.net > Mappers > firstnameAttribute

FirstnameAttribute

Protocol

saml

ID

b8002cfa-5736-4a66-8dab-2f0436970bf3

Name

firstnameAttribute

Mapper Type

User Attribute

User Attribute

firstName

Friendly Name

SAML Attribute Name

firstnameAttribute

SAML Attribute NameFormat

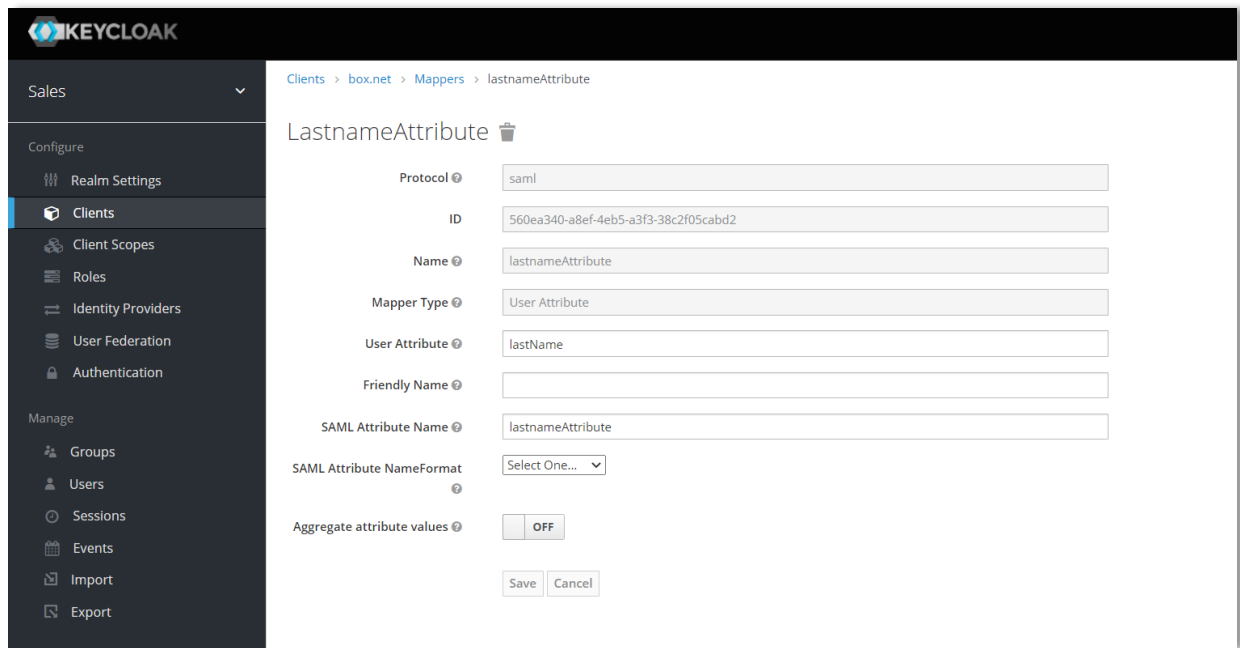
Select One...

Aggregate attribute values

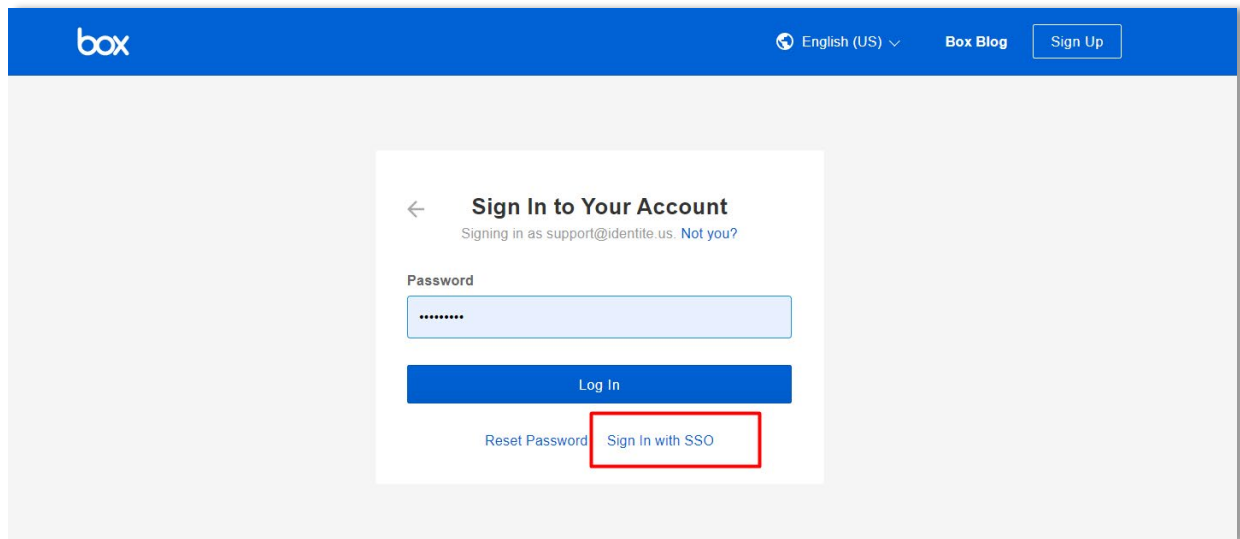
OFF

Save

Cancel

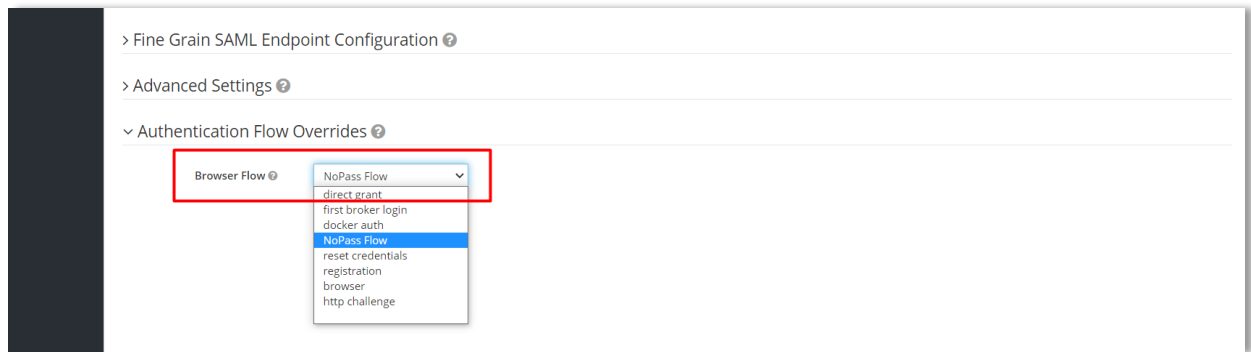


17) Go to your Box login page and test the SSO Login.



18) Once you are successfully logged in, navigate back to your Identite Keycloak, and do the following:

- a. On the **Box client** tab, on the **Settings** subtab, scroll down to the bottom of the page and select the **Authentication Flow Overrides**.
- b. From the drop down menu, select the **NoPass flow**, and then click **Save**.



Box SSO is now protected with NoPass.

What to read next

[NoPass integration with GitLab](#)

NoPass integration with GitLab

The following instructions enable you to use NoPass 2FA for GitLab CE and EE versions. For this purpose, you will need a preconfigured Keycloak instance with SAML 2.0.

For Keycloak configuration instructions, see Section 6.4. [Set up service providers with Keycloak.](#)

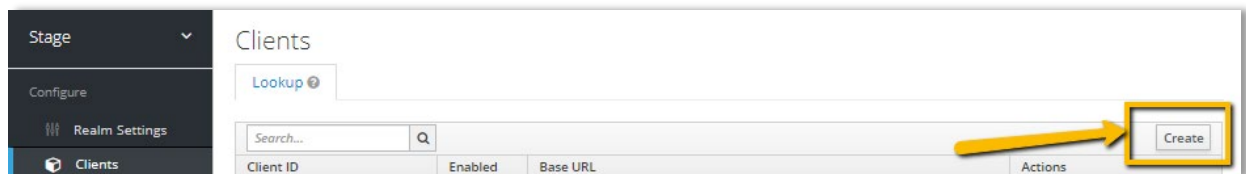
For detailed instructions how to configure GitLab, see [SAML OmniAuth Provider.](#)

Create SAML client in Keycloak

- 1) In the Keycloak admin console, go to your realm > the **Clients** tab. Click **Create**.



Note: The following instructions are shown for the realm called Stage. Your realm name can be different.



- 2) On the **Add client** tab, do the following:
 - a. Import the metadata file by inserting the URL: <https://gitlab.example.com/users/auth/saml/metadata>
 - b. Fill in the client information fields, and then click **Save**.



Configure the client in Keycloak for GitLab

- 1) In the **Clients** menu, select the newly created client.
- 2) On the **Settings** tab, set the following parameters:
 - a. **Enabled**—ON
 - b. **Standard flow enabled**—ON

c. Direct Access Grants Enabled—ON

Clients > Gitlab.example

Gitlab.example

Settings Roles Client Scopes Mappers Scope Revocation Sessions Offline Access Installation

Client ID

Name

Description

Enabled ☒

Consent Required ☐ OFF

Login Theme

Client Protocol

Include AuthnStatement ☐ OFF

Include OneTimeUse Condition ☐ OFF

Sign Documents ☐ OFF

Sign Assertions ☐ OFF

Encrypt Assertions ☐ OFF

Client Signature Required ☐ OFF

Force POST Binding ☐ OFF

Front Channel Logout ☐ OFF

Force Name ID Format ☐ OFF

Name ID Format

Root URL

Valid Redirect URIs

Base URL

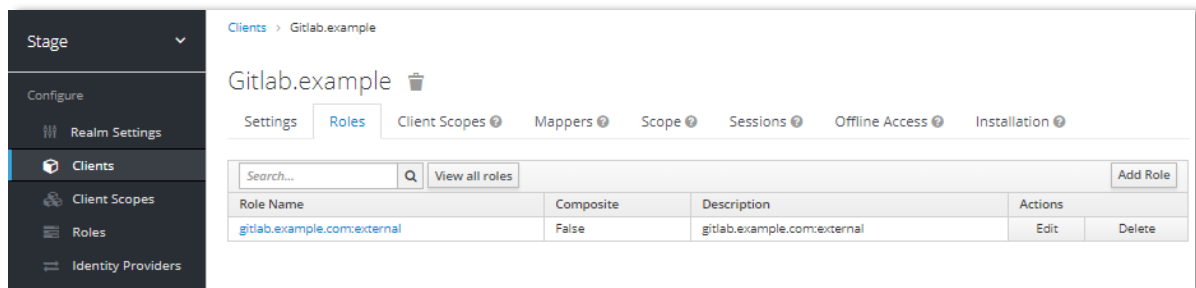
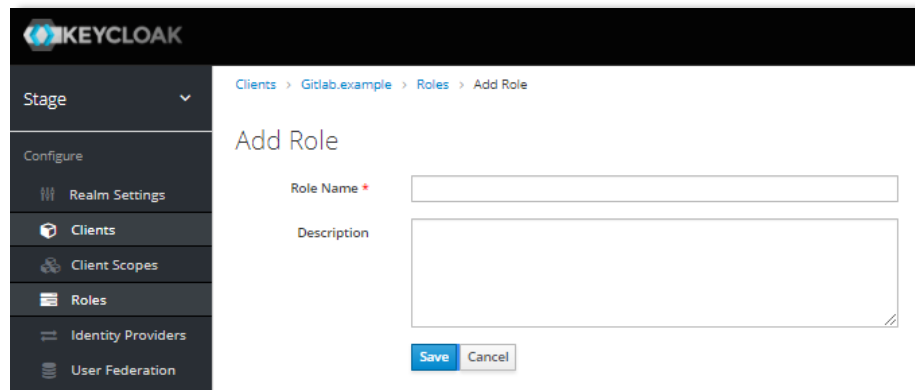
Master SAML Processing URL

IDP Initiated SSO URL Name

IDP Initiated SSO Relay State

Configure roles

- 1) On the **Roles** tab, click **Add role** to create a group named **external** for Gitlab.
- 2) On the **Add role** page, fill in the following fields, and click **Save**:
 - **Role name:** *gitlab.example.com:external*
 - **Description:** *gitlab.example.com:external*




Create and configure mappers


Mappers allow to match fields from Keycloak to a service provider. For more information about SAML assertion mappings, see [Keycloak Server Administration](#)

- 1) On the **Mappers** tab, click **Create** to add mappers for GitLab in Keycloak.
- 2) On the **Create Protocol Mapper** page, fill in the following fields for the mapper, and then click **Save**:


Name	Enter name
Mapper type	Select User Property
Property	Enter username
Friendly name	Enter username or leave empty
SAML Attribute Name	Enter name
SAML Attribute Name Format	Select Basic


The successful result is as follows:


Name 


Protocol 


ID


Name 

Mapper Type 

Property 

Friendly Name 

SAML Attribute Name 

SAML Attribute NameFormat 

- 3) Repeat steps 5, 6 to create mappers for email, first_name, last_name, and roles. Populate the fields as suggested below:

Name	Enter email
Mapper Type	Select User Property
Property	Enter email
Friendly name	Enter email or leave empty
SAML Attribute Name	Enter email
SAML Attribute NameFormat	Select Basic


Name	Enter first_name
Mapper Type	Select User Property
Property	Enter FirstName
Friendly name	Enter First Name or leave empty
SAML Attribute Name	Enter First name
SAML Attribute NameFormat	Select Basic

Name	Enter Last_name
Mapper Type	Select User Property
Property	Enter last name
Friendly name	Enter last name or leave empty
SAML Attribute Name	Enter last name
SAML Attribute NameFormat	Select Basic


Name	Enter roles
Mapper Type	Select Role list
Role attribute name	Enter Role
Friendly name	Enter Roles or leave empty
SAML Attribute NameFormat	Select Basic
Single Role Attribute	Switch to ON

The successful result is as follows:

Clients > Gitlab.example

Gitlab.example 

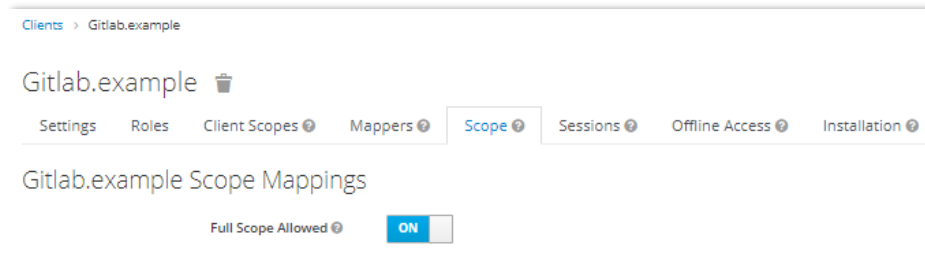
Settings Roles Client Scopes **Mappers** Scope Sessions Offline Access Installation

Search... 

Name	Category	Type
name	AttributeStatement Mapper	User Property
email	AttributeStatement Mapper	User Property
first_name	AttributeStatement Mapper	User Property
Last_name	AttributeStatement Mapper	User Property
roles	Role Mapper	Role list


Scope tab parameters

- On the **Scope** tab, switch the **Full Scope Allowed** toggle on.





Copy the certificate

- In the **Realm Settings** menu, on the **Keys** tab, click **Certificate** to download the public certificate.

Stage 

General Login **Keys** Email Themes Cache Tokens Client Registration Security Defenses

Active Passive Disabled Providers

Algorithm	Type	Kid	Priority	Provider	Public keys
AES	OCT	1ff0ff69-1110-45e0-9e55-e24d300e81f1	100	aes-generated	
HS256	OCT	c504059c-d6b9-46b0-a298-14e0fba85857	100	hmac-generated	
RS256	RSA	eHUzpPh5dNB0Utiee1KNudhvyv0liw2hie_Z6a2KUzc	100	rsa-generated	Public key  

Configure GitLab

- 1) On your **GitLab** server, open the configuration file.

For Omnibus package:

```
sudo editor /etc/gitlab/gitlab.rb
```

For installations from source:

```
Cd /home/git/gitlab
Sudo -u git -H editor config/gitlab.yml
```

- 2) Add the provider configuration and public certificate for your GitLab instance to use for SAML:

For example:

```
omniauth:
  providers:
    - {
      name: 'saml',
      args: {
        assertion_consumer_service_url:
'https://gitlab.example.com/users/auth/saml/callback',
        idp_cert_fingerprint: '43:51:43:a1:b5:fc:8b:b7:0a:3a:a9:b1:0f:66:73:a8',
        idp_sso_target_url: 'https://login.example.com/idp',
        issuer: 'https://gitlab.example.com',
        name_identifier_format: 'urn:oasis:names:tc:SAML:2.0:nameid-format:persistent'
      },
      label: 'Company Login' # optional label for SAML login button, defaults to "Saml"
      certificate: '-----BEGIN CERTIFICATE-----
<redacted>
-----END CERTIFICATE-----',
      private_key: '-----BEGIN PRIVATE KEY-----
<redacted>
-----END PRIVATE KEY-----',
      security: {
        authn_requests_signed: true, # enable signature on AuthNRequest
        want_assertions_signed: true, # enable the requirement of signed assertion
        embed_sign: true, # embedded signature or HTTP GET parameter signature
        metadata_signed: false, # enable signature on Metadata
        signature_method: 'http://www.w3.org/2001/04/xmldsig-more#rsa-sha256',
        digest_method: 'http://www.w3.org/2001/04/xmlenc#sha256',
      }
    }
}
```

- 3) Change the value for `assertion_consumer_service_url` to match the HTTPS endpoint of GitLab (append `users/auth/saml/callback` to the HTTPS URL of your GitLab installation to generate the correct value).
- 4) Change the values of `idp_cert_fingerprint`, `idp_sso_target_url`, `name_identifier_format` to match your IdP.
- 5) Change the value of `issuer` to a unique name, which will identify the application to the IdP.



Warning: The name specified in `issuer` must be used when registering the GitLab SP in Keycloak.

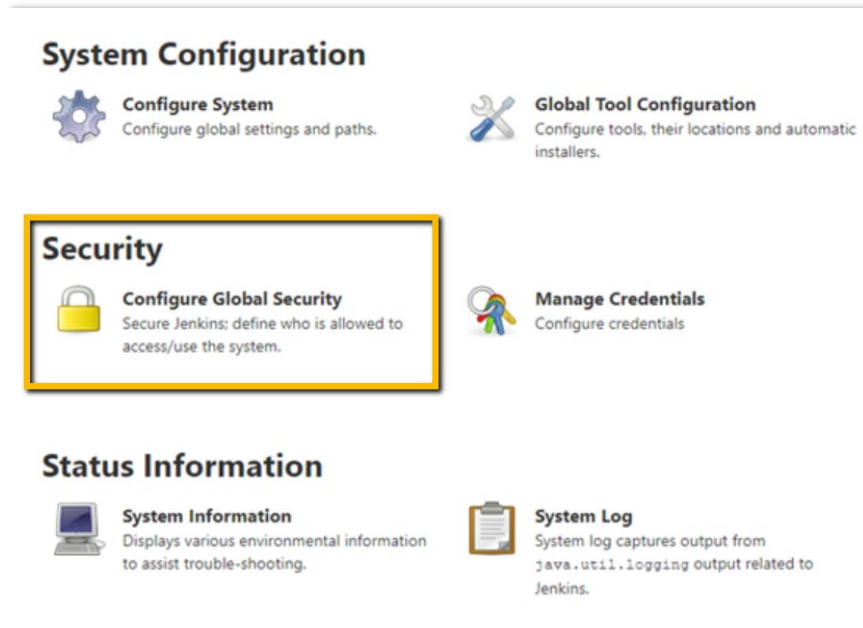
- 6) For the changes to take effect, reconfigure or restart GitLab.

NoPass integration with Jenkins

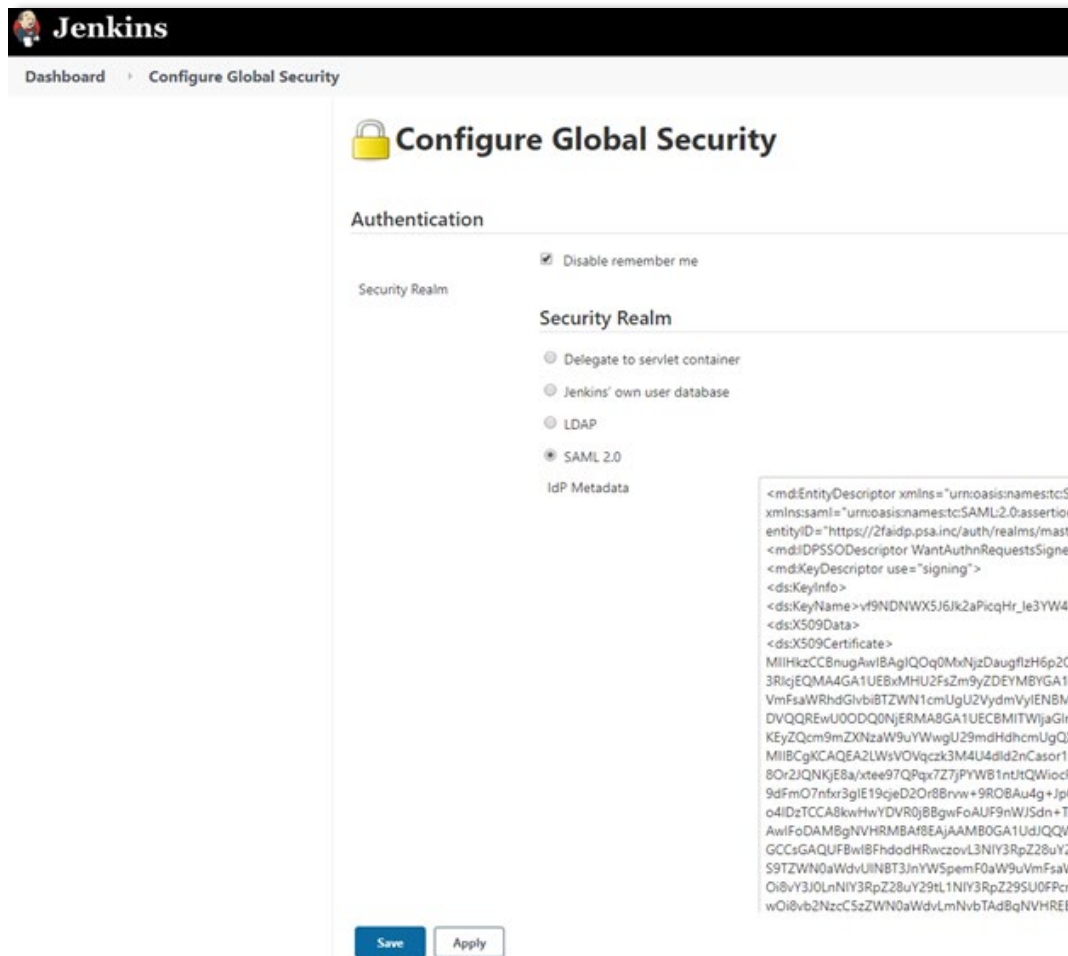
Copy the IdP Metadata from Keycloak

Configure Jenkins

- 1) Go to **Dashboard > Manage Jenkins > System Configuration** and select **Configure Global Security**.



- 2) In the **Configure Global Security**, select **SAML 2.0** and drop the IdP Metadata file from Keycloak.



Configure Keycloak

- 1) In **Configure Global Security**, at the bottom of the **Authentication** section, click the **Service Provider Metadata** link to configure Jenkins as a Client on the Keycloak side.

Group Attribute

Maximum Authentication Lifetime

Username Attribute

Email Attribute

Username Case Conversion

Data Binding Method

Logout URL

☐ Advanced Configuration

☐ Encryption Configuration

Custom Attributes

Service Provider Metadata which may be required to configure your Identity Provider (based on last saved settings).

☒ Unix user/group database

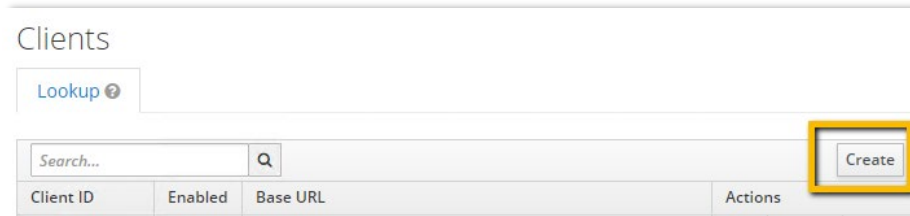
☐ None

- 2) Go to the Keycloak admin console and repeat steps 2-5 from Section 9.2.2. **NoPass integration with Confluence.**

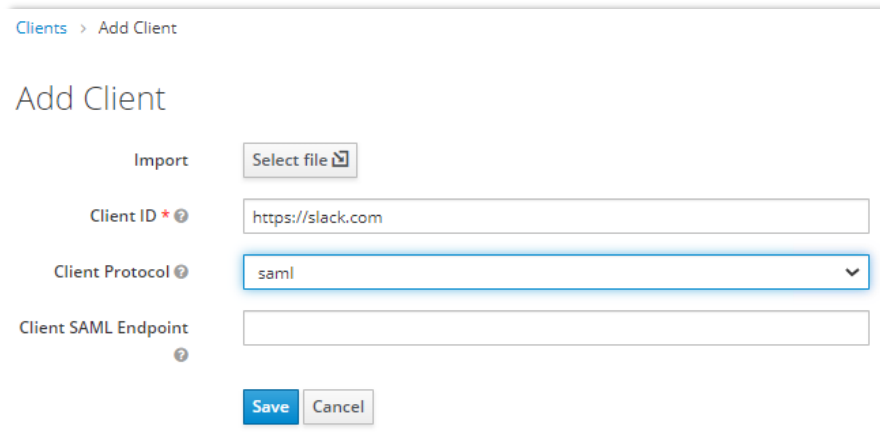
NoPass integration with Slack

Set up the Keycloak Client

- 1) Login to the Keycloak admin console at [https://\[kcurl\]/auth/admin/master/console](https://[kcurl]/auth/admin/master/console).
- 2) In the Keycloak admin console, go to your realm > the **Clients** tab. Click **Create** to add a new client.



- 3) On the **Add client** tab, do the following:
 - Set the **Client ID** to <https://slack.com>
 - Set the **Client Protocol** to SAML



Configure the new client

- 1) On the **Settings** tab, set the following parameters:

PARAMETER	VALUE
Include AuthnStatement	ON
Sign Documents	ON
Sign Assertions	ON
Signature Algorithm	RSA_SHA1
SAML Signature Key Name	NONE
Force POST Binding	ON

PARAMETER	VALUE
Force Name ID Format	ON
Name ID Format	Persistent
Valid Redirect UIs	<ul style="list-style-type: none"> ○ <a href="https://<your-slack-url>/">https://<your-slack-url>/ ○ https://[your-slack-url]/*

Configure

- Realm Settings
- Clients**
- Client Scopes
- Roles
- Identity Providers
- User Federation
- Authentication

Manage

- Groups
- Users
- Sessions
- Events
- Import
- Export

https://slack.com

- Settings
- Roles
- Client Scopes
- Mappers
- Scope
- Sessions
- Offline Access
- Clustering
- Installation

Client ID

https://slack.com

Name

Description

Enabled

ON

Always Display in Console

OFF

Consent Required

OFF

Login Theme

nopass

Client Protocol

saml

Include AuthnStatement

ON

Include OneTimeUse Condition

OFF

Sign Documents

ON

Optimize REDIRECT signing key lookup

OFF

Sign Assertions

ON

Signature Algorithm

RSA_SHA1

SAML Signature Key Name

NONE

The screenshot shows a configuration page for SAML. On the left is a dark sidebar. The main area contains the following settings:

- Canonicalization Method: EXCLUSIVE (dropdown)
- Encrypt Assertions: OFF (toggle)
- Client Signature Required: OFF (toggle)
- Force POST Binding: ON (toggle)
- Front Channel Logout: OFF (toggle)
- Force Name ID Format: ON (toggle)
- Name ID Format: persistent (dropdown)
- Root URL: (empty text field)
- Valid Redirect URIs:
 - https://identite-sso.slack.com/ (with minus button)
 - https://identite-sso.slack.com/* (with minus button)
 - (empty text field with plus button)
- Base URL: (empty text field)
- Master SAML Processing URL: (empty text field)
- IDP Initiated SSO URL Name: (empty text field)
- IDP Initiated SSO Relay State: (empty text field)

- 2) At the bottom of the page, in the **Fine Grain SAML Endpoint Configuration**, set the following parameters, and click save:

PARAMETER	VALUE
Assertion Consumer Service POST Binding URL	<a href="https://<your-slack-url>/sso/saml">https://<your-slack-url>/sso/saml
Logout Service POST Binding URL	<a href="https://<your-slack-url>/sso/saml/logout">https://<your-slack-url>/sso/saml/logout



Note: The value of <your-slack-url> is the actual slack URL for your account, for example *homellogin.slack.com*.

▼ Fine Grain SAML Endpoint Configuration ?

Assertion Consumer Service POST Binding URL ?

https://<your-slack-url>/sso/saml

Assertion Consumer Service Redirect Binding URL ?

Logout Service POST Binding URL ?

https://<your-slack-url>/sso/saml/logout

Logout Service Redirect Binding URL ?

> Advanced Settings ?

> Authentication Flow Overrides ?

Save

Cancel

Configure Client Scopes

- On the **Client Scopes** tab, remove any scopes from Assigned Default Client Scopes.

The screenshot shows the Slack Admin console interface. At the top, there's a breadcrumb trail: "Clients > https://slack.com". Below this is a header bar with navigation links: "Settings", "SAML Keys", "Roles", "Client Scopes" (which is highlighted with a blue box), "Mappers", "Scope", "Sessions", and "Offline Access". Below the header bar, there are two tabs: "Setup" and "Evaluate". The main content area is divided into three sections: "Default Client Scopes", "Available Client Scopes", and "Assigned Default Client Scopes". The "Assigned Default Client Scopes" section is highlighted with a yellow box. It contains a list of assigned scopes (currently empty) and a button labeled "« Remove selected".

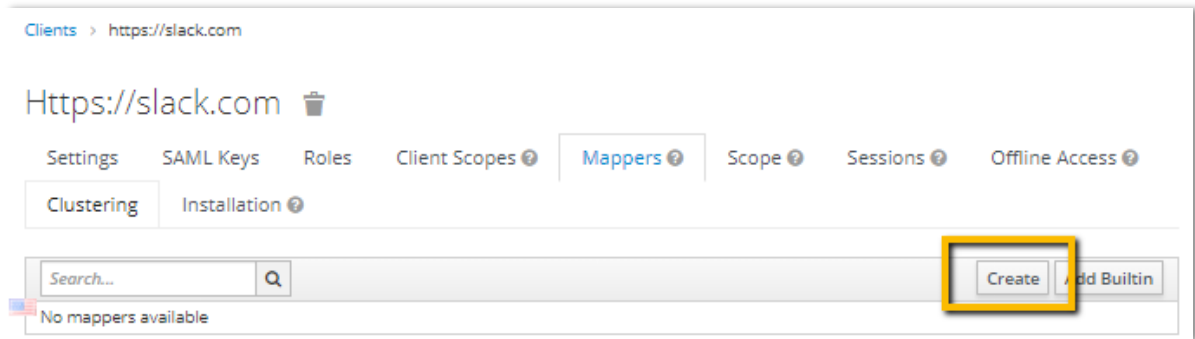
Configure Mappers

Mappers are how Keycloak handles Assertions. We will add and configure 4 mappers as described in the Slack *Custom SAML single sign-on* guide at <https://slack.com/intl/en-by/help/articles/205168057-Custom-SAML-single-sign-on>.

You will need to create the following mappers: email address, first name, last name, username.

Procedure

- 1) To add a mapper, on the **Mappers** tab, select **Create**.



- 2) On the **Create Protocol Mapper**, from the **Mapper type**, select **User Property** for each mapper.

The screenshot shows the 'Create Protocol Mapper' form. The 'Mapper Type' dropdown is highlighted with a yellow box and set to 'User Property'. The form includes fields for Protocol (saml), Name, Property, Friendly Name, SAML Attribute Name, and SAML Attribute NameFormat. The 'Save' and 'Cancel' buttons are at the bottom.

- 3) Fill in the following fields for mappers, and then click **Save**:

- **Email Address** (required)

PARAMETER	VALUE
Property	Email
Friendly Name	Email
SAML Attribute Name	<i>User.Email</i>

Sales > Clients > https://slack.com > Mappers > Email

Email

Protocol: saml

ID: baed768b-6537-4f83-9418-80dd13e9a2d0

Name: Email

Mapper Type: User Property

Property: Email

Friendly Name: Email

SAML Attribute Name: User.Email

SAML Attribute NameFormat: Select One...

Save Cancel

- First Name (Given Name)

PARAMETER	VALUE
Property	Firstname
Friendly Name	Firstname
SAML Attribute Name	First_name

Sales > Clients > https://slack.com > Mappers > First name

First Name

Protocol: saml

ID: 42bce342-1fca-4065-a09b-64a71af2fa8f

Name: First name

Mapper Type: User Property

Property: Firstname

Friendly Name: Firstname

SAML Attribute Name: first_name

SAML Attribute NameFormat: Select One...

Save Cancel

- Last Name (Surname)

PARAMETER	VALUE
Property	Lastname

PARAMETER	VALUE
Friendly Name	Lastname
SAML Attribute Name	last_name

Sales ▾

Configure

- Realm Settings
- Clients**
- Client Scopes
- Roles
- Identity Providers
- User Federation
- Authentication

Manage

- Groups
- Users
- Sessions
- Events

Clients > https://slack.com > Mappers > Last name

Last Name 🗑️

Protocol ⓘ saml

ID 216b68f4-37fe-4464-acc9-4cd67cddea11

Name ⓘ Last name

Mapper Type ⓘ User Property

Property ⓘ Lastname

Friendly Name ⓘ Lastname

SAML Attribute Name ⓘ last_name

SAML Attribute NameFormat ⓘ Select One... ▾

Save Cancel

- Username

PARAMETER	VALUE
Property	username
Friendly Name	Username
SAML Attribute Name	User.Username

Sales ▾

Configure

- Realm Settings
- Clients**
- Client Scopes
- Roles
- Identity Providers
- User Federation
- Authentication

Manage

- Groups
- Users
- Sessions
- Events

Clients > https://slack.com > Mappers > Username

Username 🗑️

Protocol ⓘ saml

ID 6c76454b-83df-4d33-9e6c-db85ce50f4fe

Name ⓘ Username

Mapper Type ⓘ User Property

Property ⓘ username

Friendly Name ⓘ Username

SAML Attribute Name ⓘ User.Username

SAML Attribute NameFormat ⓘ Select One... ▾

Save Cancel

In the Slack *Custom SAML single sign-on* guide one more attribute has been mentioned as a required attribute, and that is the Name ID.

NameID (Required)

```
<saml:Subject>
  <saml:NameID Format="urn:oasis:names:tc:SAML:2.0:nameid-
format:persistent" NameQualifier="YOURDOMAIN.slack.com"
SPNameQualifier="https://slack.com">Your Unique
Identifier</saml:NameID>
</saml:Subject>
```



Note: To meet [SAML specifications](#), the NameID must be unique, pseudo-random, and will not change for the user over time — like an employee ID number.

This attribute does not need to be set and is the same attribute as the Keycloak User ID that Keycloak has assigned to each user and will include it in the SAML token.

Download Keycloak Metadata

- In **Realm Settings**, on the **General** tab, select SAML 2.0 Identity Provider Metadata to download the SAML Metadata.

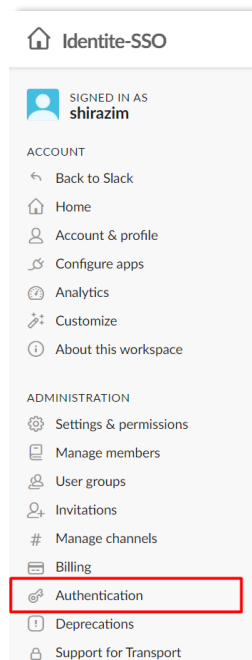
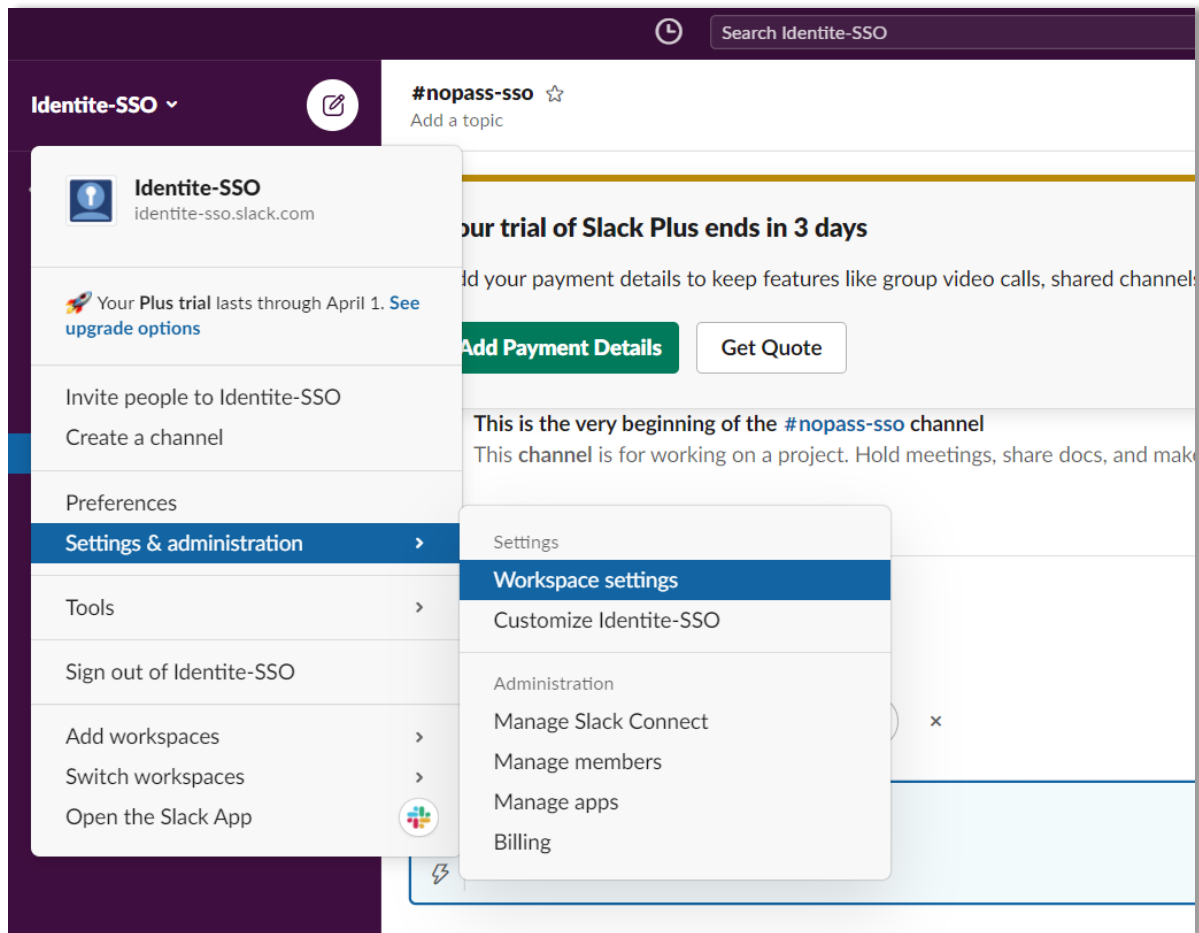


Note: Your URL should look similar to:

<https://<keycloak-location>/auth/realms/<realm>/protocol/saml/descriptor>.

Configure Slack

- 1) Sign in to your Slack account as an admin.
- 2) Go to **Settings & administration > Workplace settings > Authentication > SAML SSO configurations**



3) On the **Configure SAML Authentication page, do the following:**

- Set **SAML 2.0 Endpoint (HTTP)** to <https://<kc-base-url>/auth/realms/<realm-name>/protocol/saml>. You can find this in the **Location** field of the **SingleSignOnService** property in the metadata.

This XML file does not appear to have any style information associated with it. The document tree is shown below.

[illegible]

- Set **Identity Provider Issuer** to <https://<kc-base-url>/auth/realms/<realm-name>>. You can find this in the **entityID** field of the **EntityDescriptor** property.


This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml-stylesheet href='\"http://www.w3.org/2008/09/xmldsig#\"' type='application/javascript' async='false'/>  
  
Name=\"urn:keycloak\">  
    <!-- EntityDescriptor -->  
    <EntityDescriptor xmlns='urn:oasis:names:tc:SAML:2.0:metadata' xmlns:md='urn:oasis:names:tc:SAML:2.0:metadata' xmlns:saml='urn:oasis:names:tc:SAML:2.0:assertion' xmlns:dsh='http://www.w3.org/2008/09/xmldsig#'>  
        <IDPSSODescriptor xmlns='urn:oasis:names:tc:SAML:2.0:protocol' Location='https://login-clw.identite.us/auth/realsms/sales/protocol/saml/'>  
            <SupportEnumeration urn:oasis:names:tc:SAML:2.0:protocol/>  
            <dsh:KeyInfo><sighing"/>  
                <dsh:KeyName=dbFnmJ53btZ-oUKA3M6SeKvtpdSLvtXkYe-bsySHn4</ds:KeyName>  
                <ds:X509Data>  
                    <x509Certificate>MIICnTCCAYCEBfOeCUEVzAHBgkhkiG9wBAQFAADQAoMBYDANQQDAWgYkkizAEafDYHDSHTAxSzEufjZafvZMDASHTAxSzYMZaWBABAGIWAHBXBHVgvHIIBtJBHgkgkhgiG9wBAQFAAACQBAMIBTCCKAQEAEmn3U  
                    </x509Data>  
                </ds:KeyInfo>  
            </md:EntityDescriptor>  
            <SingleLogoutService Binding='urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST' Location='https://login-clw.identite.us/auth/realsms/sales/protocol/saml/'>  
                <md:Binding urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect Location='https://login-clw.identite.us/auth/realsms/sales/protocol/saml/'>  
                    <NameIDFormat urn:oasis:names:tc:SAML:2.0:nameid-format:persistent</md:NameIDFormat>  
                    <NameIDFormat urn:oasis:names:tc:SAML:2.0:nameid-format:transient</md:NameIDFormat>  
                    <NameIDFormat urn:oasis:names:tc:SAML:1.1:nameid-format:persistentField</md:NameIDFormat>  
                    <NameIDFormat urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress</md:NameIDFormat>  
                </md:Binding>  
                <md:SigningService Binding='urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST' Location='https://login-clw.identite.us/auth/realsms/sales/protocol/saml/'>  
                    <md:Signature Service Binding='urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect' Location='https://login-clw.identite.us/auth/realsms/sales/protocol/saml/'>  
                        <md:SignatureService Binding='urn:oasis:names:tc:SAML:2.0:bindings:SOAP' Location='https://login-clw.identite.us/auth/realsms/sales/protocol/saml/'>  
                            </md:IDPSDescriptor>  
                        </md:EntityDescriptor>  
                    <script id='new-webScript' type='application/javascript' async='false' />  
                    <script type='applicatoin/javascript' async='false' id='new-extensionId')(function(t)(window.extensionID=t))('nlbmijnckegkjpcfcclmgcfefdm')</script>  
                </md:EntitiesDescriptor>
```

- In the metadata, set **Public Certificate** to the **X509Certificate**. You do not need any extra marking, just that straight value.

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<!--EntityDescriptor xmlns="urn:oasis:names:tc:SAML:2.0:metadata" xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata" xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion" xmlns:ds="http://www.w3.org/2000/09/xmldsig#" Name="urn:keycloak" -->
<!--EntityDescriptor xmlns="urn:oasis:names:tc:SAML:2.0:metadata" xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata" xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion" xmlns:ds="http://www.w3.org/2000/09/xmldsig#" -->
<!--IDPSDescriptor WantAuthnRequestsSigned="true" protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol" -->
<!--KeyDescriptor use="signing" -->
  <!--KeyInfo -->
    <!--KeyName>dfbnd53btZ-oUkQ3H65KVbUpdSLvtKcBy-BSyH4C/ds/KeyName -->
    <!--X509Data -->
    <!--X509Certificate -->
    <!--X509Data -->
  <!--KeyInfo -->
</EntityDescriptor>
<!--SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST" Location="https://login-clw.identite.us/auth/realms/sales/protocol/saml/" -->
<!--SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://login-clw.identite.us/auth/realms/sales/protocol/saml/" -->
<!--NameIDFormat urn:oasis:names:tc:SAML:2.0:nameid-format:transient</md:NameIDFormat -->
<!--NameIDFormat urn:oasis:names:tc:SAML:2.0:nameid-format:transient</md:NameIDFormat -->
<!--NameIDFormat urn:oasis:names:tc:SAML:1.1:nameid-format:unspecfied</md:NameIDFormat -->
<!--NameIDFormat urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress</md:NameIDFormat -->
<!--SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST" Location="https://login-clw.identite.us/auth/realms/sales/protocol/saml/" -->
<!--SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="https://login-clw.identite.us/auth/realms/sales/protocol/saml/" -->
<!--SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:SOAP" Location="https://login-clw.identite.us/auth/realms/sales/protocol/saml/" -->
</IDPSDescriptor>
</EntityDescriptor>
<script id="new-webbscript" type="application/javascript" async="false"/>
<script type="application/javascript" async="false" id="new-extensionId">(function(t){window.extensionID=t})("nlbmijnclgkjpcfcjclmcfgefda")</script>
</EntityDescriptor>
```



Configure SAML Authentication

Get set up with Azure, Okta, and OneLogin, or your custom SAML 2.0 solution.

[Configure](#)

Follow the steps below to set up Slack with your custom SSO solution. When it's ready, we'll be sending an email to every member in your workspace to notify them of the change and to get them to bind their Slack account.

SAML 2.0 Endpoint (HTTP)

Enter your SAML 2.0 Endpoint.
This is where you go when you try to login.

[Custom SAML Instructions](#)

Identity Provider Issuer

The IdP Entity ID for the service you use.

Public Certificate

sales (), expiring September 10th, 2030 ([edit](#))

4) Under **Advanced Options**, do the following:

- Set **AuthnContextClassRef** to **Don't send this value**
- Set **Service Provider Issuer** to <https://slack.com>
- Select **Responses Signed**
- Select **Assertions Signed**

Advanced Options

[close](#)

☐ Sign **AuthnRequest**

AuthnContextClassRef

The **RequestedAuthnContext** Slack will send in authentication requests to your identity provider.

Service Provider Issuer

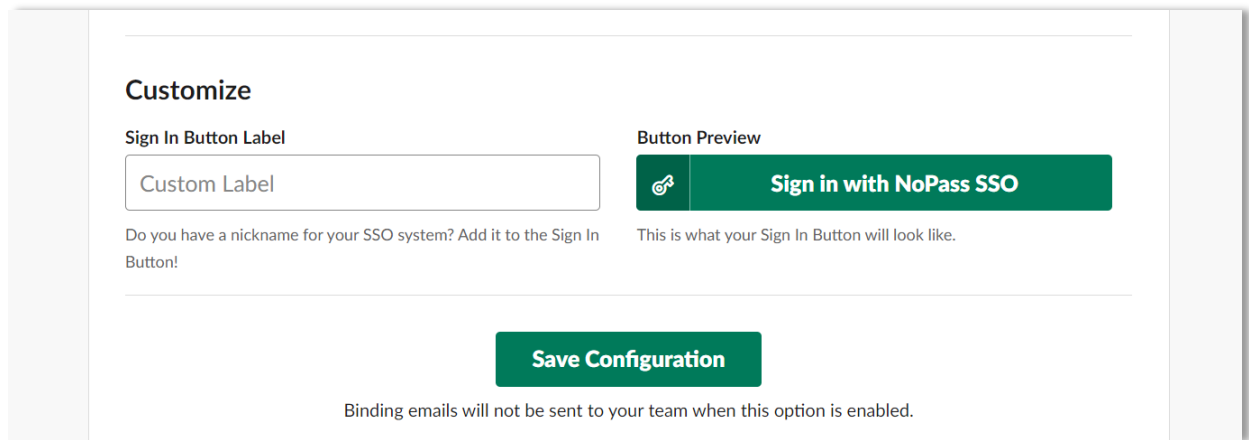
The SP Entity ID you would like us to send. By default, this is **https://slack.com**.

Choose how the SAML response from your IDP is signed. You must choose at least one option.

☒ Responses Signed

☒ Assertions Signed

5) *Optional.* Customize your **Sign In Button Label**.



Customize

Sign In Button Label

Custom Label

Do you have a nickname for your SSO system? Add it to the Sign In Button!

Button Preview

Sign in with NoPass SSO

This is what your Sign In Button will look like.

Save Configuration

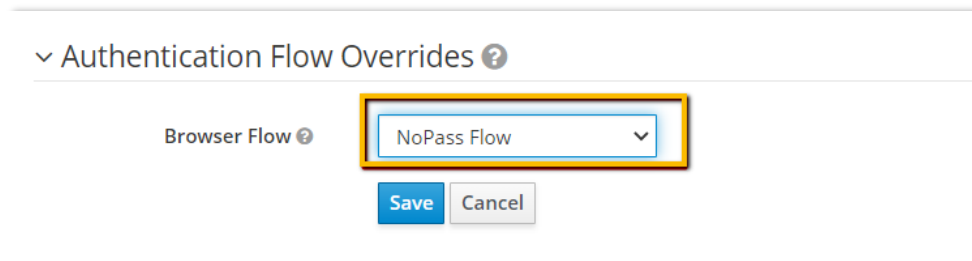
Binding emails will not be sent to your team when this option is enabled.

6) Click **Save Configuration**. If you are not already signed in with Keycloak, Slack will do that now to test the integration.

Enable NoPass Passwordless Authentication for Slack SSO

After Slack has tested the integration and the SSO is working, sign in to your Keycloak admin console.

On the Slack **Client Settings** tab, under **Authentication Flow Overrides**, from the Browser Flow list, select **NoPass Flow**.



Authentication Flow Overrides ?

Browser Flow ?

NoPass Flow

Save Cancel

APPENDIX 1. NOPASS SERVER ENVIRONMENT VARIABLES

The application will not start without the required variables. The variables with mask **EmailSettings** are required to configure sending mail to your administrator.

ENVIRONMENT VARIABLE	VALUE (EXAMPLE)	DESCRIPTION
Required variables		
MAPD_DatabaseSettings__DbConnecti onType	MySql	Type of database. You can use MySql, Postgre, MsSql
MAPD_DatabaseSettings__Server MAPD_DatabaseSettings__Port MAPD_DatabaseSettings__DatabaseNa me MAPD_DatabaseSettings__UserId MAPD_DatabaseSettings__Password	nopass_db; Database=nopass-server; User Id=root; password=nopassroot!;	Database connection string. You can also use a split database connection string, see below. Supported databases: MySQL, Postgre, MsSQL.
MAPD_ServerUrl	< https://nopass.example.com/ >	URL of the NoPass application
Optional global variables		
MAPD_EmailSettings__Host	smtp.gmail.com	URL of an SMTP server
MAPD_EmailSettings__Port	587	SMTP port
MAPD_EmailSettings__EnableSSL	true	enable or disable SSL
MAPD_EmailSettings__EmailFrom	client.support@gmail.com	mail sender
MAPD_EmailSettings__UserName	login@gmail.com	login for mailbox
MAPD_EmailSettings__Password	pa\$\$w0rd	password for mailbox
MAPD_EmailSettings__Email	admin.nopass@gmail.com	recipient address
MAPD_EmailSettings__CC	sysadmins@gmail.com	copy address
MAPD_EmailSettings__Subject	Report issue	email subject
Optional variables for RADIUS		
MAPD_RADIUSProxySettings__AdminI d	RADIUSadmin	Default login for RADIUS administrator
MAPD_RADIUSProxySettings__Admin Pwd	RADIUSpassword	Default password for RADIUS administrator

Related topics

[Install the NoPass application server](#)

APPENDIX 2. CONFIGURE THE REVERSE PROXY

The reverse proxy terminates the HTTP request and forwards it to the application. We recommend using the Nginx server as a reverse proxy server. It will have to proxy requests to the NoPass application server and it can perform the decryption of requests and encryption of responses that NoPass application server would otherwise have to do. You can use your reverse proxy server or our pre-configured Nginx with the NoPass application server.

```

upstream nopass {
    server nopass_server:80;
}
server {
    listen 443 ssl;
    server_name nopass.example.com;
    location / {
        proxy_pass http://nopass;
        proxy_redirect off;
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection keep-alive;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
        client_max_body_size 10m;
        client_body_buffer_size 128k;
        proxy_connect_timeout 300;
        proxy_send_timeout 300;
        proxy_read_timeout 300;
        proxy_buffers 32 4k;
    }
    ssl_certificate /etc/certs/nopass.crt;
    ssl_certificate_key /etc/certs/nopass.key;
    ssl_ciphers ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA:ECDHE-RSA-AES256-SHA384;
    ssl_protocols TLSv1.2 TLSv1.3;
    ssl_prefer_server_ciphers on;
    ssl_session_cache shared:SSL:10m;
    ssl_session_timeout 10m;
    ssl_stapling on;
    ssl_stapling_verify on;
    resolver 1.1.1.1 1.0.0.1 8.8.8.8 8.8.4.4 208.67.222.222 208.67.220.220 valid=60s;
    resolver_timeout 2s;
    add_header Strict-Transport-Security: "max-age=31536000; includeSubDomains" always;
    add_header X-Content-Type-Options nosniff;
    add_header X-XSS-Protection "1; mode=block";
    add_header X-Frame-Options SAMEORIGIN;
    add_header Referrer-Policy 'same-origin';
    add_header Expect-CT 'enforce; max-age=3600';
    add_header "default-src 'self' http: https: data: blob: 'unsafe-inline'" always;
}

```

Related topics

[Create DNS records](#)

[Stop the NoPass application server](#)