PAM Install & config

PAM Jump Server installation and configuration

Installing PAM using Docker

How to install PAM using Docker

PAM Jump Server Installation

The purpose of this tutorial is to show how to install Jump servers and configure PAM using Dockers, to use critical resources without knowing the password required.

Jump Server

> A jump server, jump host or jump box is a system on a network used to access and manage devices in a separate security zone. A jump server is a hardened and monitored device that spans two dissimilar security zones and provides a controlled means of access between them. (*)

From version **1.4.36 and higher,** Soffid PAM Launcher and Store installs allowing only **TLSv1.3 protocol.**

Prerequisites

Prerequisites to install PAM using Dockers:

1. Install docker (https://docs.docker.com/install/)

2. Create a Docker network(*), that network allows you to connect containers to the same bridge network to communicate:

```
sudo docker network create -d bridge NETWORKNAME
```

* *You can use the same network defined in the Console and Sync Server installation to avoid visibility problems.*

Screen overview

https://www.youtube.com/embed/3itVO7_J8ZQ?rel=0

Installation

The steps required to install PAM are:

1. Create the storage server container.
2. Create the launcher container.
3. Register storage server in Soffid console.

Fast path to create storage server and launcher containers

1. To create both containers, you can download the following script: **install-pam.sh**

2. Before installing, you have to edit the file and set the name of the new network you have created, and the latest versions of the store and launcher

```
.........
docker create \
  --network soffid \
  -v soffid-pam-store:/opt/soffid/tomee/data \
  -p 8081:8080 \
  --name soffid-pam-store \
  soffid/pam-store:1.3.0 >/dev/null


......
```

```
......
docker create \
  --network soffid \
  -v soffid-pam-launcher:/opt/soffid/tomee/launcher \
  -v /var/run/docker.sock:/var/run/docker.sock \
  -p 8082:8080 \
  -e STORE_SERVER="http://$PUBLIC_IP:8081/" \
  -e STORE_USER="$userid" \
```

```
  -e STORE_PASSWORD="$pass" \
  --name soffid-pam-launcher \
  soffid/pam-launcher:1.3.0 >/dev/null


.....
```

3. Finally, you can execute the script

```
~/Downloads$ bash ./install-pam.sh
```

A brief description of the script

1. Creates two volumes, one for the storage and the other for the launcher.
2. Creates a storage server container:
    - 2.1. In that container the files and videos recorded will be saved.
    - 2.2. All the data will be saved using a key.
    - 2.3. By default, it will use the 8081 port.
3. Starts the storage container.
4. Generates the user and password to connect the launcher.
5. Creates a launcher server container:
    - 5.1. That container will be in charge of recording and sending the recording files to the storage.
    - 5.2. Soffid allows you to configure some environment variables:

Variable	Description
STORE_SERVER	Store URL
STORE_USER	Store user
STORE_PASSWORD	Store password
JAVA_KEYSTORE	(optional) Key store path that contains the key S

KEYSTORE_PASS	(optional) SSL key
NETWORK_ID	(optional) Network ID for docker services

5.3. By default, it will use the 8082 port.

6. Starts the launcher container.

7. Generates the encryption key to be used to store the recordings.

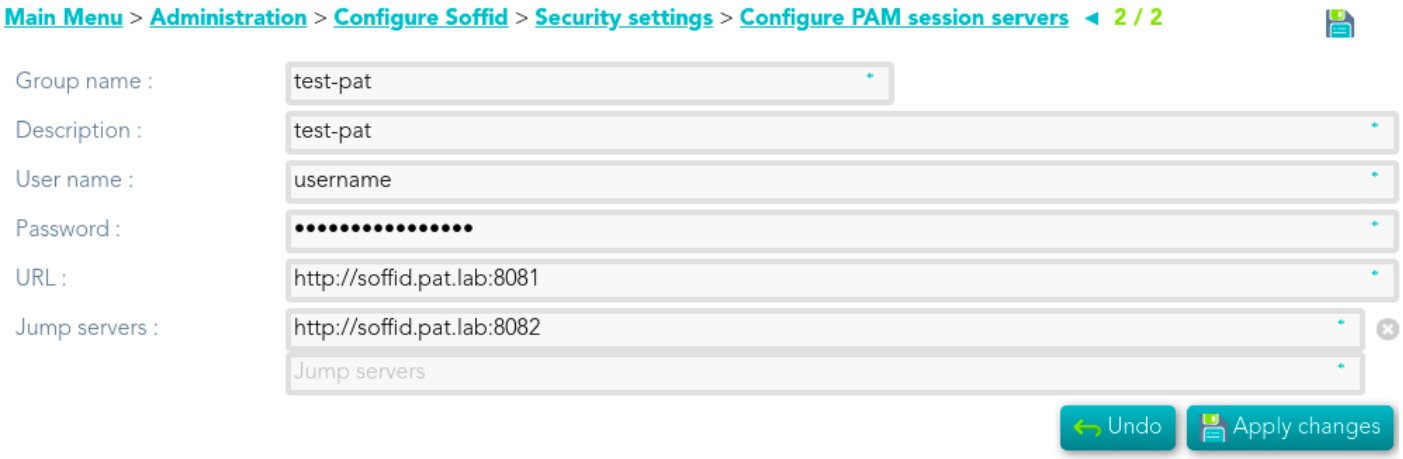
8. Generates the user and password that have to be registered on Soffid Console.

You will get something similar to this. When the process is complete, two docker containers should be created: soffid-pam-store and soffid-pam-launcher.

```
~/Downloads$ bash ./install-pam.sh
======================
Creating store server
======================
Waiting for store server
Creating launch server
============================================================
Process completed
Notice: You must register the store server in Soffid console:
User name: bubu-thinkpad
Password : DRFoeOsD02yph7DERNcAZB8jp3b67bO3D/Ax3uS4PbzuBnPbQLhR1lyAu9PFqRJ0
~/Downloads$ docker ps
CONTAINER ID IMAGE                COMMAND                CREATED         STATUS         PORTS                NAMES
854d7aff5c0a soffid/pam-launcher   "/bin/sh -c /opt/sof..."   4 minutes ago   Up 4 minutes   0.0.0.0:8082->8080/tcp   soffid-pam-launcher
7d66a3d3cfa1 soffid/pam-store      "/bin/sh -c /opt/sof..."   4 minutes ago   Up 4 minutes   0.0.0.0:8081->8080/tcp   soffid-pam-store
```

Next, you must open the Jump Server page in the Soffid console. On this page, you must register the store and launcher servers, using the user name and password displayed in the previous step.

Visit the Configure PAM session servers on Soffid Console to finish the installation process.



Privileged Account Session Recording

Be in mind that you need to download the latest image of the required Privileged Account Session Recording that you need depending on the protocol.

- soffid-pasr-ssh
- soffid-pasr-rdp
- soffid-pasr-jdbc
- soffid-pasr-http
- soffid-pasr-https
- soffid-pasr-tn5250
- soffid-pasr-kube

Examples

Linux

```
docker pull soffid/soffid-pasr-ssh
```

Windows

```
docker pull soffid/soffid-pasr-rdp
```

To save a Web session you will need to add some parameters to the launcher system.properties (/opt/soffid/tomee/conf/system.properties)

Parameters to add:

```
SOFFID_PAM_PARAMS_http=--shm-size=1024m  --privileged -eVNCSERVER=yes
SOFFID_PAM_PARAMS_https=--shm-size=1024m  --privileged -eVNCSERVER=yes
```

(*) https://en.wikipedia.org/wiki/Jump_server

PAM Jump Server Upgrade

Upgrade

To upgrade PAM you will need to run two scripts, one for the store and the other for the launcher.

Upgrade store

To upgrade the storage container you can download and execute the following script: upgrade-store.sh

```
~/Downloads$ bash ./upgrade-store.sh
```

A brief description of the script

1. Gets the latest version of the PAM store.
2. Stops the store container.
3. Removes the store container.
4. Creates a new store container.
5. Starts a new store container.

Upgrade launcher

To upgrade the launcher container you can download and execute the following script: upgrade-launcher.sh

```
~/Downloads$ bash ./upgrade-launcher.sh
```

A brief description of the script

1. Gets the latest version of the PAM launcher.

2. Gets environment variables of current docker to create the new docker with the same configuration

3. Stops the launcher container.

4. Removes the launcher container.

5. Creates a new launcher container.

6. Starts a new launcher container.

(*) https://en.wikipedia.org/wiki/Jump_server

Installing PAM using Docker Compose

How to Install PAM using Docker Compose

PAM Jump Server Installation

The purpose of this tutorial is to show how to install Jump servers and configure PAM using Docker compose, to use critical resources without knowing the password required.

Jump Server

> A jump server, jump host or jump box is a system on a network used to access and manage devices in a separate security zone. A jump server is a hardened and monitored device that spans two dissimilar security zones and provides a controlled means of access between them. (*)

Installation

1. Execute the Store YAML

```
version: '3.8'

services:
  pam-store:
    image: soffid/pam-store:1.4.48
    environment:
      JAVA_KEYSTORE: /opt/soffid/tomee/certificates/YOUR_soffid-pam-store.jks
      KEYSTORE_PASS: YOUR_KEYSTORE
    ports:
      - "8081:8443"
    networks:
      - network
    volumes:
      - store-trustedcerts:/opt/soffid/tomee/trustedcerts
      - store-certificates:/opt/soffid/tomee/certificates
```

```
      - store-data:/opt/soffid/tomee/data

networks:
  network:
    name: YOUR_NETWORK
    driver: bridge

volumes:
  store-trustedcerts:
    name: soffid-pam-store-trustedcerts
  store-certificates:
    name: soffid-pam-certificates
  store-data:
    name: soffid-pam-store
```

Execute:

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

2. Create a user in the Store to use it in the Launcher

Once, we are connected to the Store, we need to run a script to create the user. This script has two parameters, the user name, and the role. We have to type launcher in the role parameter.

```
docker exec YOUR_pam-store_CONTAINER /opt/soffid/tomee/bin/add-user.sh user-launcher launcher
```

Result:

```
/bin/bash: warning: setlocale: LC_ALL: cannot change locale (en_US.UTF-8)
Password: cccccc/Qul9NFIqQnDU73gYccccVHThyew7Qt8Hqpf0rEzVq1Ft7azccccccc
```

As a result of the script, we receive the password for the created user. This password will be needed later when we create the launcher container.

3. Create a user in the Store to use it in the Console

Once, we are connected to the Store, we need to run a script to create the user. This script has two parameters, the user name, and the role. We have to type console in the role parameter.

```
docker exec YOUR_pam-store_CONTAINER /opt/soffid/tomee/bin/add-user.sh user-console console
```

Result:

```
/bin/bash: warning: setlocale: LC_ALL: cannot change locale (en_US.UTF-8)
Password: asdadadadasdads/Qul9NFIqQnDU73gYccccVHThyew7Qt8Hqpf0rEzVq1Ft7aadadadadasd
```

As a result of the script, we receive the password for the created user. This password will be needed later when we configure PAM in the Soffid Console.

4. Execute the Launcher YAML

YAML example to create the Launcher using traefik as Ingress Controller

```
version: '3.8'

services:
  pam-launcher:
    image: soffid/pam-launcher:1.4.36
    environment:
      JAVA_KEYSTORE: /opt/soffid/tomee/certificates/YOUR_soffid-pam-launcher.jks
      KEYSTORE_PASS: YOUR_KESYSTORE
      STORE_SERVER: https://YOUR_pam-store_CONTAINER:8443
      STORE_USER: user-launcher
      STORE_PASSWORD: cccccc/Qul9NFIqQnDU73gYccccVHThyew7Qt8Hqpf0rEzVq1Ft7azccccccc
    ports:
      - "8082:8443"
    networks:
      - network
    volumes:
      - launcher-trustedcerts:/opt/soffid/tomee/trustedcerts
      - launcher-certificates:/opt/soffid/tomee/certificates
      - launcher-data:/opt/soffid/tomee/launcher
      - /var/run/docker.sock:/var/run/docker.sock
networks:
  network:
    name: YOUR_NETWORK
```

```
    driver: bridge

volumes:
  launcher-trustedcerts:
    name: soffid-pam-launcher-trustedcerts
  launcher-certificates:
    name: soffid-pam-certificates
  launcher-data:
    name: soffid-pam-launcher
```

Execute:

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

5. Configure the Console

Privileged Account Session Recording

Be in mind that you need to download the latest image of the required Privileged Account Session Recording that you need depending on the protocol.

- soffid-pasr-ssh
- soffid-pasr-rdp
- soffid-pasr-jdbc

- soffid-pasr-http
- soffid-pasr-https
- soffid-pasr-tn5250
- soffid-pasr-kube

Examples

Linux

```
docker pull soffid/soffid-pasr-ssh
```

Windows

```
docker pull soffid/soffid-pasr-rdp
```

To save a Web session you will need to add some parameters to the launcher system.properties (/opt/soffid/tomee/conf/system.properties)

Parameters to add:

```
SOFFID_PAM_PARAMS_http=--shm-size=1024m  --privileged -eVNCSERVER=yes
SOFFID_PAM_PARAMS_https=--shm-size=1024m  --privileged -eVNCSERVER=yes
```

(*) https://en.wikipedia.org/wiki/Jump_server

Full PAM installation using Docker Compose

Introduction

This tutorial describes **all the steps required to install and configure a basic PAM environment** for a local, demo or small production environment.

Prerequisites

- We have a **Linux** machine; Ubuntu 24 has been used for this tutorial.
- **Docker** and the **Docker Compose** plugin are already installed.
- The **database**, **Console** and **Syncserver** have already been installed.
- The Linux administrator user has **sudo privileges**.

Step 1: Prepare certificates

1.1 Some initial steps

> This tutorial will use **self-signed certificates** generated for a lab environment.

> If you have your **own certificates**, follow the steps depending on the file type.

> For this tutorial, we will be using the following hostnames: **store.soffid4.local** and **launcher.soffid4.local**

Go to the current Soffid 4 **directory** where the docker-compose.yaml is located.

```
cd /home/user/lab/soffid4/ ---> (this is an example)
```

Add the hostnames in your **hosts** file.

```
sudo vim /etc/hosts ---> (use vim or your favourite editor)
```

```
127.0.0.1 store.soffid4.local
127.0.0.1 launcher.soffid4.local
```

And now you will need **java**, confirm is you have it or not.

```
java -version
```

If you do not have it, for example **install java 17** (you can install another version).

```
sudo apt-get update
sudo apt-get install openjdk-17-jdk
java -version
```

1.2 Generate .key files

> When you run the command, you will be prompted for a **password**. In this tutorial, we will always use the value **12345678**; please replace this with the password of your choice (minimum 8 characters)

```
sudo openssl genrsa -aes256 -out store.soffid4.local.key
sudo openssl genrsa -aes256 -out launcher.soffid4.local.key
```

1.3 Generate .pem files

> When you run the command, the prompt will ask for the **CN (Common Name)** attribute; use the values from our domains: **store.soffid4.local** or **launcher.soffid4.local**

```
sudo openssl req -x509 -days 1000 -new -key store.soffid4.local.key -out store.soffid4.local.pem
sudo openssl req -x509 -days 1000 -new -key launcher.soffid4.local.key -out launcher.soffid4.local.pem
```

1.3 Generate .pfx files

```
sudo openssl pkcs12 -export -in store.soffid4.local.pem -inkey store.soffid4.local.key -out store.soffid4.local.pfx
sudo openssl pkcs12 -export -in launcher.soffid4.local.pem -inkey launcher.soffid4.local.key -out launcher.soffid4.local.pfx
```

1.4 Generate .jks files

```
sudo keytool -v -importkeystore -srckeystore store.soffid4.local.pfx -srcstoretype PKCS12 -destkeystore store.soffid4.local.jks -deststoretype JKS -destkeypass 12345678 -srcstorepass 12345678 -deststorepass 12345678
sudo keytool -v -importkeystore -srckeystore launcher.soffid4.local.pfx -srcstoretype PKCS12 -destkeystore launcher.soffid4.local.jks -deststoretype JKS -destkeypass 12345678 -srcstorepass 12345678 -deststorepass 12345678
```

Step 2: Store configuration

2.1 Add the store in the yaml file

Edit your docker-compose.yaml.

```
sudo vim docker-compose.yaml
```

Add the store service in your docker-compose.yaml.

> For this tutorial, **ports 8090** and **8091** have been opened.

```
services:
  store:
    image: soffid/pam-store:1.4.88
    environment:
      JAVA_KEYSTORE: /opt/soffid/tomee/certificates/store.soffid4.local.jks
      KEYSTORE_PASS: 12345678
    ports:
      - "8090:8080"
      - "8091:8443"
    networks:
      - network
    volumes:
      - store-trustedcerts:/opt/soffid/tomee/trustedcerts
```

```
      - store-certificates:/opt/soffid/tomee/certificates
      - store-data:/opt/soffid/tomee/data

volumes:
  store-trustedcerts:
    name: soffid4-pam-store-trustedcerts
  store-certificates:
    name: soffid4-pam-store-certificates
  store-data:
    name: soffid4-pam-store-data
```

Regenerate the docker containers.

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

2.2 Create users

> The **console** and the **launcher** will need **users** to **connect** to the **store**.

> We have to **run** a **script** in the **store** container to **create the user**. This script has two parameters, the user name, and the role. The role opcions are "console" or "launcher".

> When the user is created, its **password** is **generated** and displayed in the script’s output; please **copy and save it** for use in the next steps.

Create the **user-console**.

```
docker compose exec store /opt/soffid/tomee/bin/add-user.sh user-console console
```

```
/bin/bash: warning: setlocale: LC_ALL: cannot change locale (en_US.UTF-8)
Password: cccccc/Qul9NFIqQnDU73gYccccVHThyew7Qt8Hqpf0rEzVq1Ft7azccccccc
```

Create the **user-launcher**.

```
docker compose exec store /opt/soffid/tomee/bin/add-user.sh user-launcher launcher
```

```
/bin/bash: warning: setlocale: LC_ALL: cannot change locale (en_US.UTF-8)
Password: asdadadasdads/Qul9NFIqQnDU73gYccccVHThyew7Qt8Hqpf0rEzVq1Ft7aadadadadasd
```

2.3 Add the certificate

Copy the **jks certificate** into the container.

```
docker compose cp store.soffid4.local.jks store:/opt/soffid/tomee/certificates
```

Restart the store.

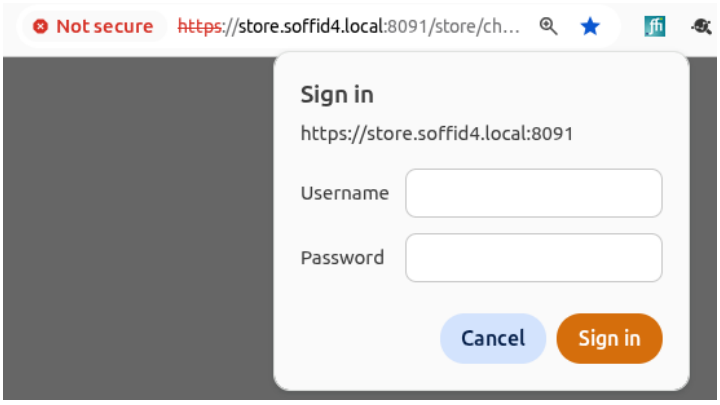
```
docker compose restart store
```

2.4 Monitoring the store

> If the store has started successfully, we will be able to access the store's **monitoring** page.

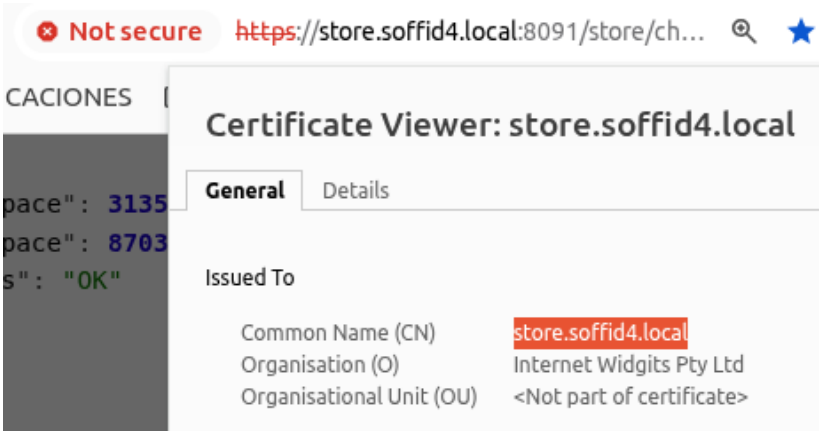
https://store.soffid4.local:8091/store/check

> You must use the **user-console** username to log in.



This is result.

Confirm the CN name (Not secure > Certificate details).



If something has gone wrong, you need to check the log.

```
sudo docker compose logs store
```

Step 3: Launcher configuration

3.1 Add the launcher in the yaml file

Edit your docker-compose.yaml.

```
sudo vim docker-compose.yaml
```

Add the launcher service in your docker-compose.yaml.

> For this tutorial, **ports 8092** and **8093** have been opened.

> Update the **STORE_PASSWORD** value for the one generated previously.

```
services:
  launcher:
    image: soffid/pam-launcher:1.4.88
    environment:
      JAVA_KEYSTORE: /opt/soffid/tomee/certificates/launcher.soffid4.local.jks
      KEYSTORE_PASS: 12345678
      STORE_SERVER: http://store:8080
      STORE_USER: user-launcher
      STORE_PASSWORD: asdadadasdads/Qul9NFIqQnDU73gYccccVHThyew7Qt8Hqpf0rEzVq1Ft7aadadadasd
    ports:
```

```
      - "8092:8080"
      - "8093:8443"
    networks:
      - network
    volumes:
      - launcher-trustedcerts:/opt/soffid/tomee/trustedcerts
      - launcher-certificates:/opt/soffid/tomee/certificates
      - launcher-data:/opt/soffid/tomee/launcher
      - /var/run/docker.sock:/var/run/docker.sock

volumes:
  launcher-trustedcerts:
    name: soffid4-pam-launcher-trustedcerts
  launcher-certificates:
    name: soffid4-pam-launcher-certificates
  launcher-data:
    name: soffid4-pam-launcher-data
```

Regenerate the docker containers.

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

3.2 Add the certificate

Copy the **jks certificate** into the container.

```
docker compose cp launcher.soffid4.local.jks launcher:/opt/soffid/tomee/certificates
```

Restart the launcher.

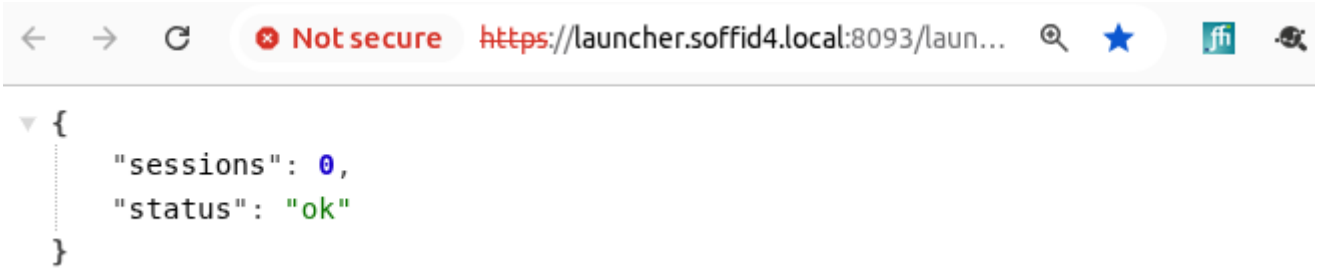
```
docker compose restart launcher
```

3.3 Monitoring the launcher

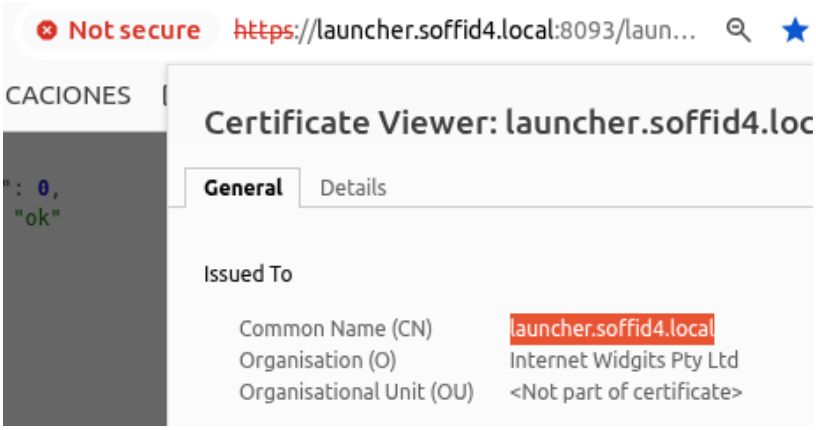
> If the launcher has started successfully, we will be able to access the store's **monitoring** page.

https://launcher.soffid4.local:8093/launch/status

This is result.



Confirm the CN name (Not secure > Certificate details).



If something has gone wrong, you need to check the log.

```
sudo docker compose logs launcher
```

Step 4: Register certificates

4.1 In the Console

Add the PAM hostnames in the console service.

> Check the **IP** of the **docker environtment**, in this tutorial 192.168.122.1.

```
sudo vim docker-compose.yaml


    extra_hosts:
      - store.soffid4.local:192.168.122.1
      - launcher.soffid4.local:192.168.122.1


docker compose up -d
```

Created the PAM certificates for the Console.

```
docker compose exec -it console bash
cd /opt/soffid/iam-console-4/trustedcerts
openssl s_client -connect store.soffid4.local:8091 < /dev/null | sed -ne '/-BEGIN CERTIFICATE-/,/-END
CERTIFICATE-/p' > store.soffid4.local.crt
openssl s_client -connect launcher.soffid4.local:8093 < /dev/null | sed -ne '/-BEGIN CERTIFICATE-/,/-END
CERTIFICATE-/p' > launcher.soffid4.local.crt
exit
docker compose restart console
```

4.2 Add a store certificate to the sync server

Add the PAM hostnames in the syncserver service.

```
sudo vim docker-compose.yaml


    extra_hosts:
      - store.soffid4.local:192.168.122.1


docker compose up -d
```

Add a store certificate to the sync server

```
docker compose exec -it syncserver bash
cd /opt/soffid/iam-sync/conf
openssl s_client -connect store.soffid4.local:8091 < /dev/null | sed -ne '/-BEGIN CERTIFICATE-/,/-END
CERTIFICATE-/p' > store.soffid4.local.crt
keytool -import -file store.soffid4.local.crt -keystore cacerts -alias store.soffid4.local
password: changeit
exit
docker compose restart syncserver
```

4.3 Add the store/syncserver certificate to the launcher

Add hostnames in the launcher service.

```
sudo vim docker-compose.yaml


    extra_hosts:
      - store.soffid4.local:192.168.122.1
```

```
docker compose up -d
```

Add the store/syncserver certificate to the launcher.

```
docker compose exec -it launcher bash
cd /opt/soffid/tomee/trustedcerts
openssl s_client -connect store.soffid4.local:8091 < /dev/null | sed -ne '/-BEGIN CERTIFICATE-/,/-END
CERTIFICATE-/p' > store.soffid4.local.crt
openssl s_client -connect sync-server-version4.network:1768 < /dev/null | sed -ne '/-BEGIN CERTIFICATE-/,/-END
CERTIFICATE-/p' > sync-server-version4.network.crt
exit
docker compose restart launcher
```

Step 5: Session types

5.1 Introduction

> When starting a user session through the launcher, it requires images for each **session type**; you must **load** the **latest** docker **image** so that the launcher can start the session.

5.2 load images

Download only the session types that you need.

```
sudo docker pull soffid/soffid-pasr-ssh:latest
sudo docker pull soffid/soffid-pasr-rdp:latest
sudo docker pull soffid/soffid-pasr-http:latest
sudo docker pull soffid/soffid-pasr-https:latest
sudo docker pull soffid/soffid-pasr-jdbc:latest
sudo docker pull soffid/soffid-pasr-tn5250:latest
sudo docker pull soffid/soffid-pasr-kube:latest
sudo docker pull soffid/soffid-pasr-google-chrome:latest
sudo docker pull soffid/soffid-pasr-vnc:latest
sudo docker pull soffid/soffid-pasr-iaccess:latest
sudo docker pull soffid/soffid-pasr-sap:latest
sudo docker pull soffid/soffid-pasr-gke:latest
```

5.3 Save web sessions

To **save a web sessions** you will need to add some parameters to the launcher **system.properties**.

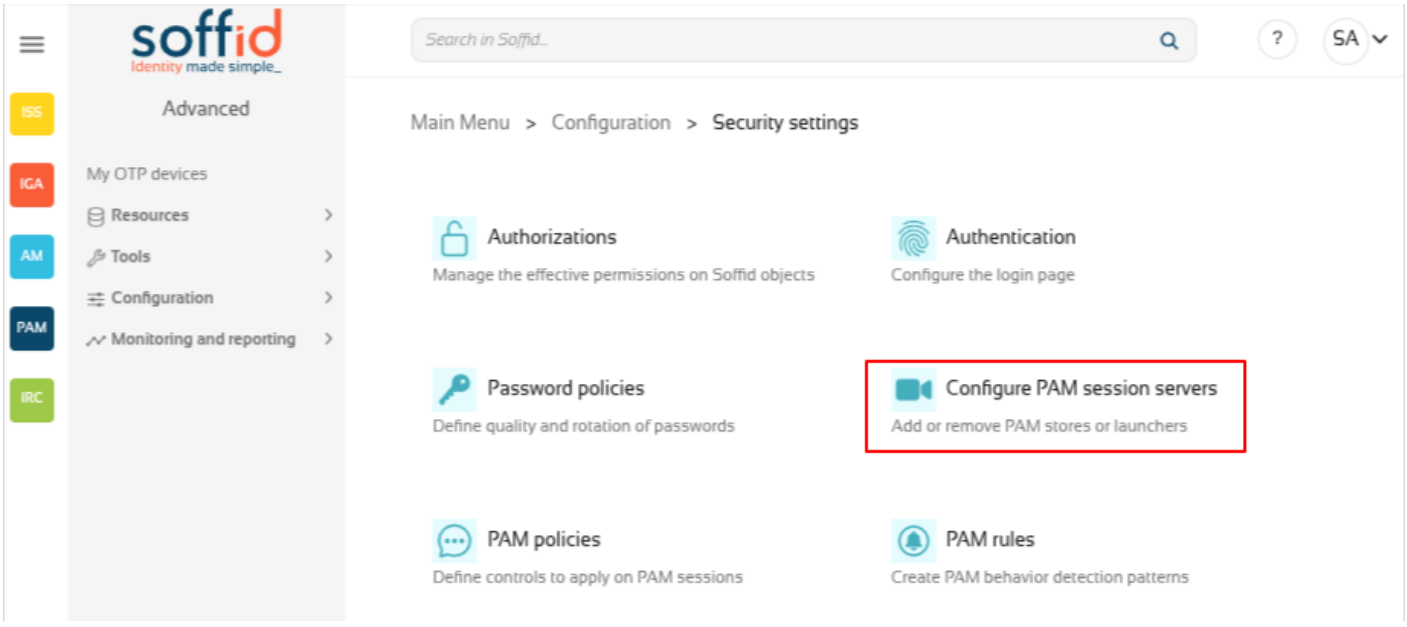
If it already exists, do nothing.

```
docker compose exec -it launcher bash
cd /opt/soffid/tomee/conf/
apt-get update
apt-get install vim
vim system.properties

   SOFFID_PAM_PARAMS_http=--shm-size=1024m  --privileged -eVNCSERVER=yes
   SOFFID_PAM_PARAMS_https=--shm-size=1024m  --privileged -eVNCSERVER=yes

exit
docker compose restart launcher
```

Step 6: Configure PAM in Console

6.1 Introduction

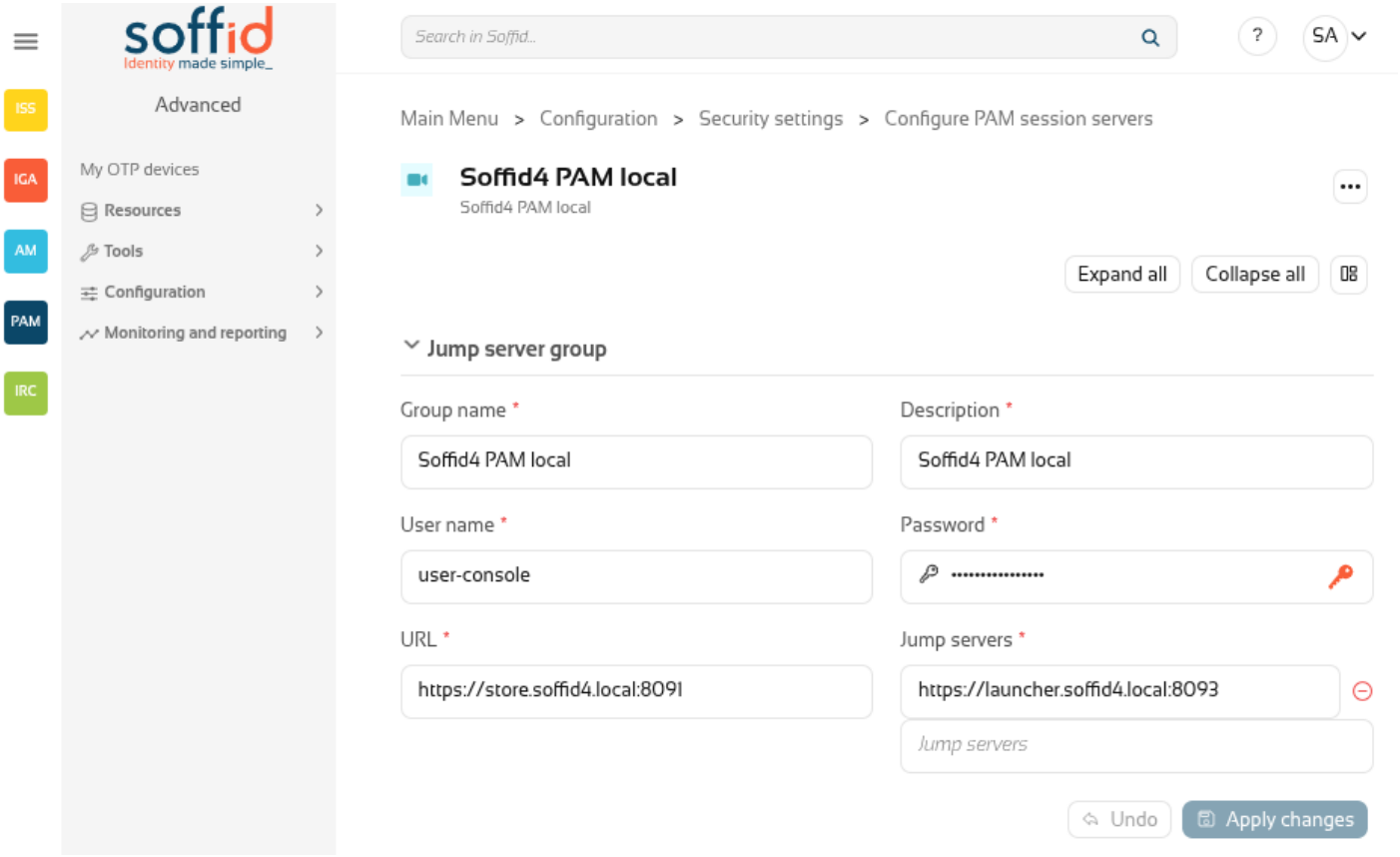
We can now go to the **Configure PAM session servers** page.



6.2 Create the PAM group

Create a new group and you register the **store** with its **user** and **password**, along with the **launcher**.

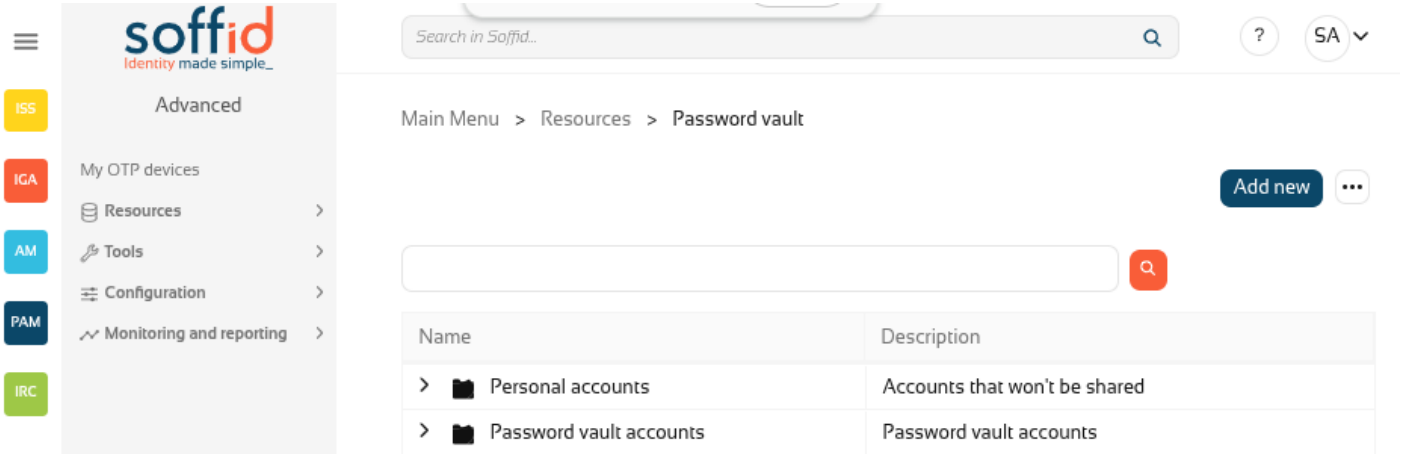
> If everything goes well, it will let you to save the changes!



Step 7: Open a web session

7.1 Password vault

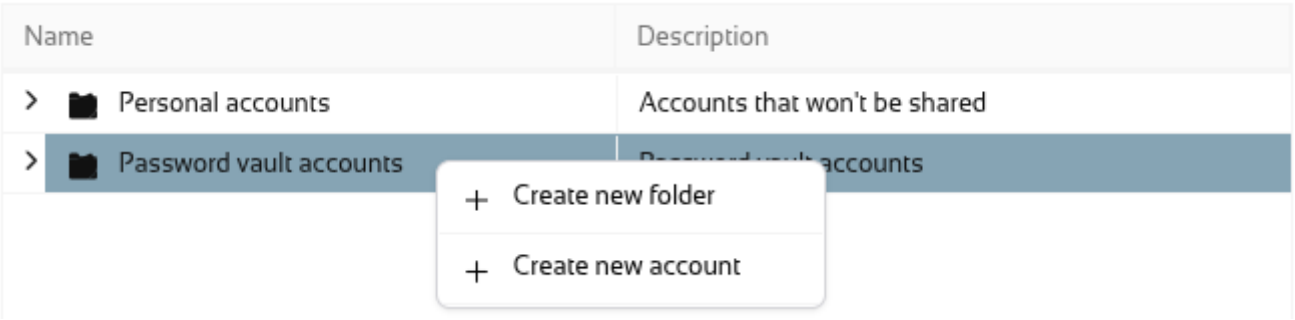
Go to **Password vault** page.



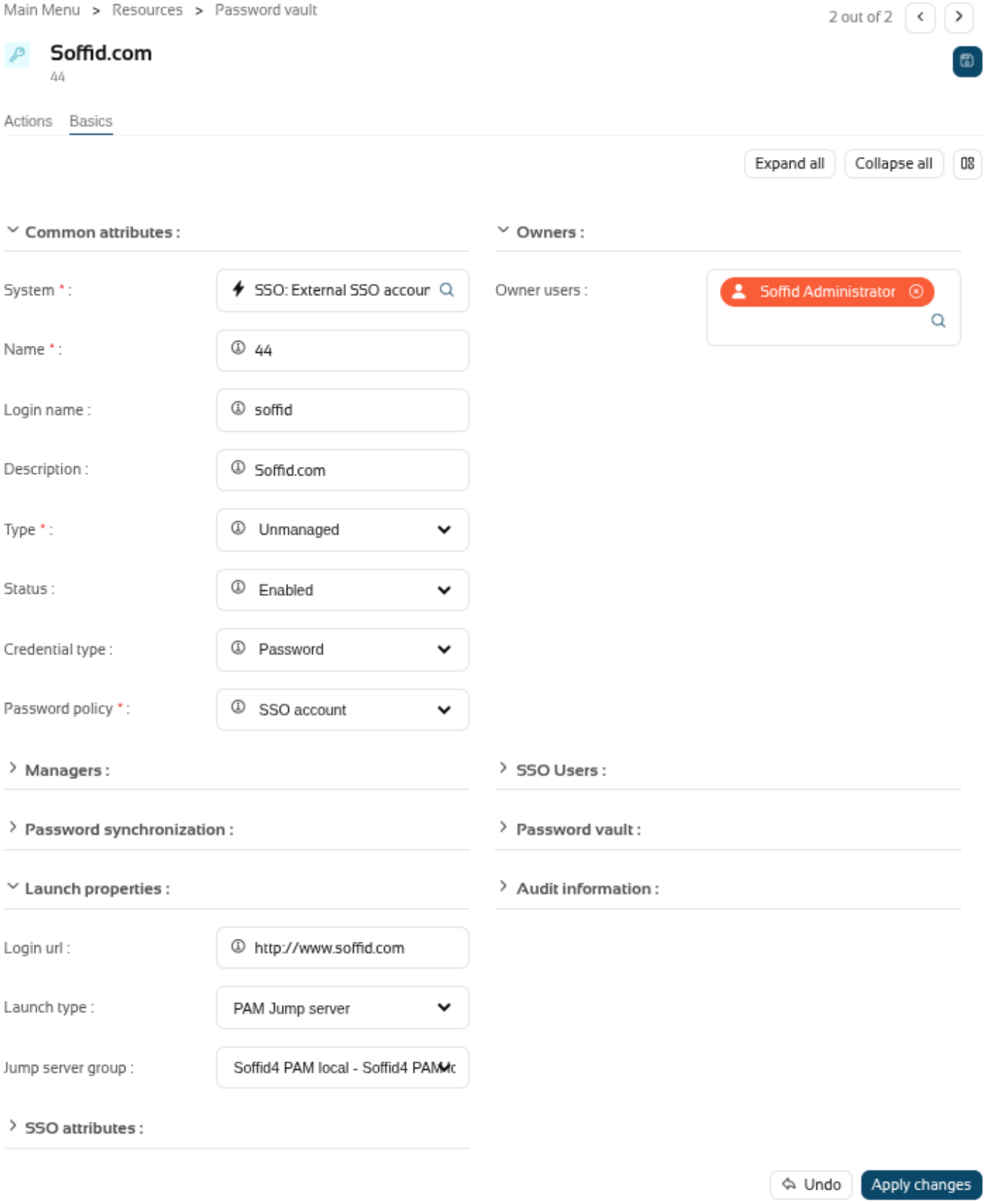
7.2 Create an account

Create a new folder "Password vault accounts" with the button "Add new".

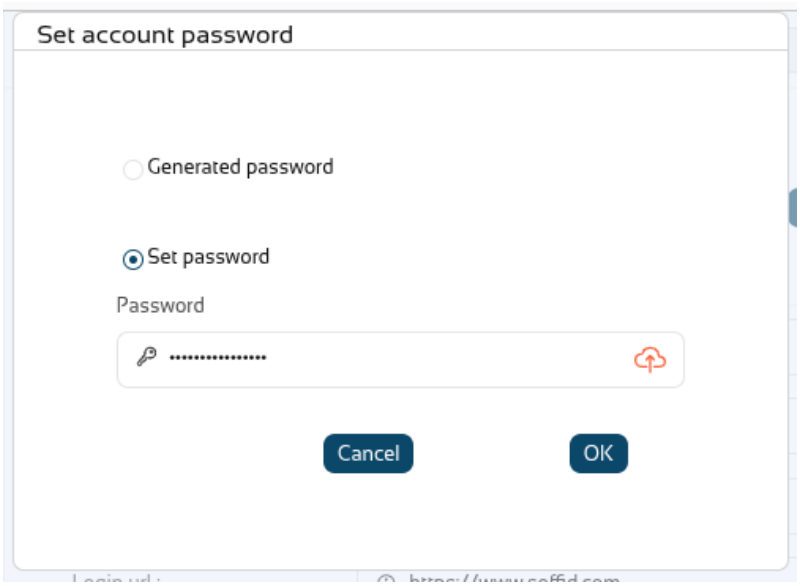
Now, on the "Password vault accounts", click the three poins icon and "Create new account".



Add these values and click the dick button.

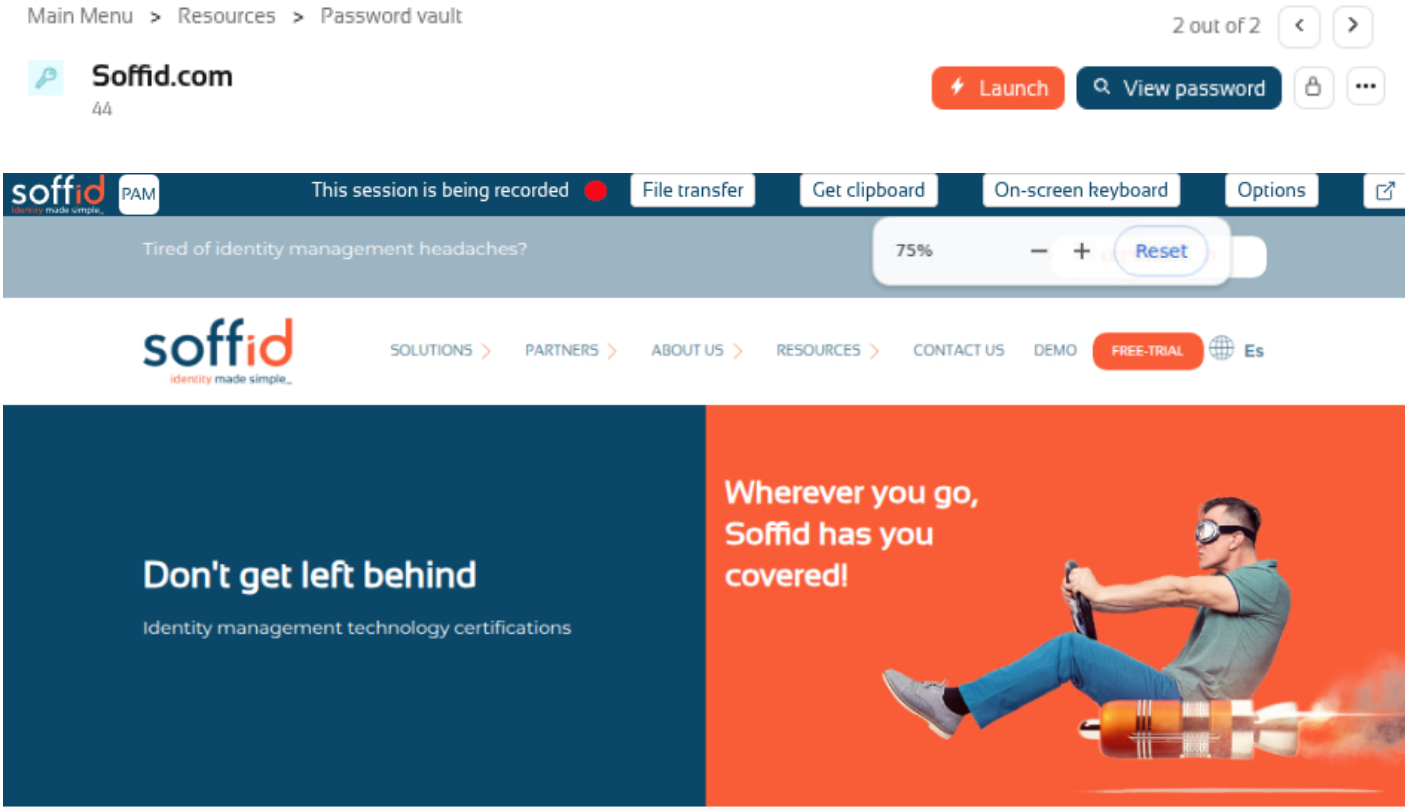


Save a dummy password.



7.3 Launch

Click the Launch button to confirm that the launcher can open the session type correctly.



> Now you have the PAM environment ready to continu

Installing PAM using Kubernetes

How to install PAM using Kubernetes

PAM Jump Server Installation

The purpose of this tutorial is to show how to install Jump servers and configure PAM using Kubernetes, to use critical resources without knowing the password required.

Jump Server

> A jump server, jump host or jump box is a system on a network used to access and manage devices in a separate security zone. A jump server is a hardened and monitored device that spans two dissimilar security zones and provides a controlled means of access between them. (*)

Installation

1. Execute the Store YAML

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  namespace: iam
  name: pam-storage
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 10Gi
---
apiVersion: apps/v1
kind: Deployment
metadata:
```

```
  name: pam-store
  namespace: iam
  labels:
    app: pam-store
spec:
  strategy:
    rollingUpdate:
      maxSurge: 0
      maxUnavailable: 1
    type: RollingUpdate
  replicas: 1
  selector:
    matchLabels:
      app: pam-store
  template:
    metadata:
      labels:
        app: pam-store
    spec:
      restartPolicy: Always
      containers:
        - name: pam-store
          image: soffid/pam-store:1.4.31
          volumeMounts:
          - name: data
            mountPath: /opt/soffid/tomee/data
          ports:
          - containerPort: 8080
      volumes:
        - name: data
          persistentVolumeClaim:
            claimName: pam-storage
      imagePullSecrets:
      - name: regcred
---
kind: Service
apiVersion: v1
metadata:
  name: pam-store-service
```

```
  namespace: iam
spec:
  selector:
    app: pam-store
  ports:
    - name: http
      port: 8080
      protocol: TCP
```

2. Create a user in the Store to use it in the Launcher

Once, we are connected to the Store, we need to run a script to create the user. This script has two parameters, the user name, and the role. We have to type launcher in the role parameter.

```
root@soffid-pam-store:/# /opt/soffid/tomee/bin/add-user.sh launcher001 launcher
Password: xxxxxx+JJnLlRtcBIGj+qQGyNHYR4zhkl7HucBsxxxx04zQ7ccccc3333
root@soffid-pam-store:/#
```

As a result of the script, we receive the password for the created user. This password will be needed later when we create the launcher container.

3. Create a user in the Store to use it in the Console

Once, we are connected to the Store, we need to run a script to create the user. This script has two parameters, the user name, and the role. We have to type console in the role parameter.

```
root@soffid-pam-store:/# /opt/soffid/tomee/bin/add-user.sh userconsole console
Password: dddddd+JJnLlRtcBIGj+qQGyNHYR4zhkl7HucBsxxxx04zQ7cccaaaawwwww
root@soffid-pam-store:/#
```

As a result of the script, we receive the password for the created user. This password will be needed later when we configure PAM in the Soffid Console.

4. Execute the Launcher YAML

YAML example to create the Launcher using traefik as Ingress Controller

```
apiVersion: v1
kind: ServiceAccount
metadata:
  namespace: iam
  name: pam-launcher
---
kind: Role
apiVersion: rbac.authorization.k8s.io/v1
metadata:
  name: pam-launcher
  namespace: iam
rules:
  - verbs:
      - get
      - update
      - create
      - delete
      - list
      - watch
    apiGroups:
      - ''
    resources:
      - pods/attach
      - pods/log
      - pods/exec
      - pods
---
kind: RoleBinding
apiVersion: rbac.authorization.k8s.io/v1
metadata:
  name: pam-launcher
  namespace: iam
subjects:
  - kind: ServiceAccount
    name: pam-launcher
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
```

```
  name: pam-launcher
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: pam-launcher
  namespace: iam
  labels:
    role: pam-launcher
spec:
  strategy:
    rollingUpdate:
      maxSurge: 0
      maxUnavailable: 1
    type: RollingUpdate
  replicas: 1
  selector:
    matchLabels:
      role: pam-launcher
  template:
    metadata:
      labels:
        role: pam-launcher
    spec:
      serviceAccountName: pam-launcher
      restartPolicy: Always
      containers:
        - name: pam-launcher
          image: soffid/pam-launcher:latest
          imagePullPolicy: Always
          volumeMounts:
          - name: data
            mountPath: /opt/soffid/tomee/launcher
          ports:
          - containerPort: 8080
          env:
          - name: STORE_SERVER
            value: http://pam-store-service:8080
          - name: STORE_USER
```

```
          value: userLauncher
        - name: STORE_PASSWORD
          value: ddddddGf14+JJnLlRtcBIGj+ddddddddd4zhkl7HucBs9eVU6wQg044444444
      volumes:
       - name: data
         nfs:
          # URL for the NFS server service
          server: "YOUR_SERVER_IP"
          path: /pam-launcher
      imagePullSecrets:
      - name: regcred
---
kind: Service
apiVersion: v1
metadata:
  name: pam-launcher
  namespace: iam
spec:
  selector:
    role: pam-launcher
  ports:
    # Open the ports required by the NFS server
    # Port 2049 for TCP
    - name: http
      port: 8080
      protocol: TCP
---
apiVersion: traefik.containo.us/v1alpha1
kind: IngressRoute
metadata:
  name: launcher
  namespace: iam
spec:
  entryPoints:                  # [1]
    - https
  routes:                       # [2]
  - kind: Rule
    match: Host("pam-launcher.deployment.com")
    priority: 10                # [4]
```

```
    services:                   # [8]
    - kind: Service
      name: pam-launcher
      namespace: iam
      passHostHeader: true
      port: 8080                # [9]
      responseForwarding:
        flushInterval: 1ms
      scheme: http
      sticky:
        cookie:
          httpOnly: true
          name: srvrid
          secure: true
          sameSite: none
      strategy: RoundRobin
      weight: 10
  tls:
    secretName: SECRET_NAME
---
# Service to locate PASR containers
apiVersion: v1
kind: Service
metadata:
  name: pasr
  namespace: iam
spec:
  selector:
    type: pasr
  clusterIP: None
  ports:
  - name: vnc # Actually, no port is needed.
    port: 5900
    targetPort: 5900
---
```

5. Configure the Console

Privileged Account Session Recording

Be in mind that you need to download the latest image of the required Privileged Account Session Recording that you need depending on the protocol.

- soffid-pasr-ssh
- soffid-pasr-rdp
- soffid-pasr-jdbc
- soffid-pasr-http
- soffid-pasr-https
- soffid-pasr-tn5250
- soffid-pasr-kube

To save a Web session you will need to add some parameters to the launcher system.properties (/opt/soffid/tomee/conf/system.properties)

Parameters to add:

```
SOFFID_PAM_PARAMS_http=--shm-size=1024m  --privileged -eVNCSERVER=yes
SOFFID_PAM_PARAMS_https=--shm-size=1024m  --privileged -eVNCSERVER=yes
```

(*) https://en.wikipedia.org/wiki/Jump_server

Configure PAM session servers

Definition

Soffid provides the functionality that allows you to Configure PAM session servers.

To configure that functionality is mandatory to install PAM following the instructions of the PAM installation page.

> A Jump server is the control point that forces users to log into that system first, then, they could traverse to other servers without having to log in again. The purpose of a jump server is to be the only gateway for access to your infrastructure reducing the size of any potential attack surface.

Screen overview

https://www.youtube.com/embed/iABzqU40Pws?rel=0

Related objects

- **soffid-pam-store**: storage server container
- **soffid-pam-launcher**: launcher container

Standard attributes

- **Group name**: name to identify the configuration.
- **Description**: a brief description.
- **User name**: user name given at installation of PAM
- **Password**: password given at installation of PAM.
- **URL**: of the storage. The default port is 8081.
- **Jump servers**: list of jump servers. A URL of each jump server. The default port is 8082.

Actions

Add new	Allows you to add a new configuration of PAM. You can choose that option by clicking the add button (+). You must fill in all the attributes to save a new configuration.
Delete	Allows you to delete one or more configuration PAM registers, you must select one or more records from the list and click the button with the subtraction symbol (-). To perform that action, Soffid will ask you for confirmation, you could confirm or cancel the operation.
Apply chanages	Allows you to create a new configuration PAM or to update an existing one. To save the data it will be mandatory to fill in the required fields. Also, the password and user name should be correct to connect.
Undo	Allows you to quit without applying any changes made.

SSH gateway

SSH Gateway Docker Installation

Introduction

Soffid allows you to deploy a new docker container with the **ssh gateway**. The configuration is similar to the sync server configuration, the main difference is the ssh container is listening in ssh.

Prerequisites

The SSH Service is only released as a docker service.

1. Install docker (https://docs.docker.com/install/)

2. Install Soffid PAM (store container and launcher container)

> You can visit the PAM Jump Server Installation page for more information about how to install PAM

3. Create a Docker network(*), that network allows you to connect containers to the same bridge network to communicate:

```
sudo docker network create -d bridge NETWORKNAME
```

* *You can use the same network defined in the Console and Sync Server installation to avoid visibility problems.*

Installation

The steps required to install SSH container are:

1. Create a user

We need to create a user in the pam store container. To do this, we need to connect to the store container.

```
sudo docker exec -it soffid-pam-store /bin/bash
```

Once, we are connected to the container, we need to run a script to create the user. This script has two parameters, the user name, and the role. We have to type launcher in the role parameter

```
root@soffid-pam-store:/# /opt/soffid/tomee/bin/add-user.sh proxysshtest launcher
Password: c4ZRcmgemq3nMr1VQJCD1pJRhPbdX5hrmmrP6RX7zBE4HSs3RV3+cGwDdL1WaaqZ
root@soffid-pam-store:/#
```

As a result of the script, we receive the password for the created user. This password will be needed later when we create the container.

2. Create volume

We need to create a volume that will be used by the docker container

```
sudo docker volume create soffid-ssh
```

3. Create a docker container

Finally, we need to execute the command to create the ssh gateway container

```
docker run \
--name soffid-ssh \
-e SOFFID_SERVER=https://iam-sync.soffidnet:1760 \
-e SOFFID_USER=admin \
-e SOFFID_PASS=changeit \
-e SOFFID_HOSTNAME=ssh-gateway \
-e STORE_SERVER=http://soffid-pam-store:8080 \
-e STORE_PASSWORD=kDH0vh8MFWWn843Vhzmj0Np7uzMEfbqFYM1ELCQqOf++tF0xfd=Ve2eGq81OXvqy \
-e STORE_USER=proxysshtest \
-v soffid-ssh:/opt/soffid/iam-sync/conf \
```

```
--publish 2222:22 \
--network=soffidnet \
soffid/pam-ssh:1.4.2
```

Environment Variables

To create the new SSH container you need to set the following environment variables:

Variable	Description	Example
SOFFID_SERVER	Sync Server URL	https://syncserver01.soffid.com:1760
SOFFID_USER	Soffid user to join the security domain	admin
SOFFID_PASSWORD	Soffid user password	changeit
SOFFID_HOSTNAME	The hostname used to access the ssh gateway	ssh-gateway
STORE_SERVER	Store URL	http://soffid-pam-store:8080
STORE_PASSWORD	Password received when you created the user in the store container.	**********
STORE_USER	Store user	proxyssh

SSH Gateway Docker Compose Installation

Introduction

Soffid allows you to deploy a new docker container with the **ssh gateway**. The configuration is similar to the sync server configuration, the main difference is the ssh container is listening in ssh.

Prerequisites

The SSH Service is only released as a docker service.

1. Install docker (https://docs.docker.com/install/)
2. Install docker compose (https://docs.docker.com/compose/install/)
3. Install Soffid PAM (store container and launcher container)

> You can visit the PAM Jump Server Installation page for more information about how to install PAM

Installation

The steps required to install SSH container are:

1. Create a user

We need to create a user in the pam store container. To do this, we need to connect to the store container.

```
sudo docker exec -it soffid-pam-store /bin/bash
```

Once, we are connected to the container, we need to run a script to create the user. This script has two parameters, the user name, and the role. We have to type launcher in the role parameter

```
root@soffid-pam-store:/# /opt/soffid/tomee/bin/add-user.sh proxyssh-user launcher
Password: c4ZRcmgemq3nMr1VQJCD1pJRhPbdX5hrmmrP6RX7zBE4HSs3RV3+cGwDdL1WaaqZ
root@soffid-pam-store:/#
```

As a result of the script, we receive the password for the created user. This password will be needed later when we create the container.

2. Execute the YAML

```
version: '3.8'

services:
  ssh-gateway:
    image: soffid/pam-ssh:1.4.47
    environment:
      SOFFID_SERVER: https://syncserver01.soffid.com:1760
      SOFFID_USER: soffidUser
      SOFFID_PASS: SoffidPassword
      SOFFID_HOSTNAME: ssh-gateway
      STORE_SERVER: https://soffid-pam-store:8443
      STORE_PASSWORD: c4ZRcmgemq3nMr1VQJCD1pJRhPbdX5hrmmrP6RX7zBE4HSs3RV3+cGwDdL1WaaqZ
      STORE_USER: proxyssh-user
    ports:
      - "2222:22"
    networks:
      - network
    volumes:
      - ssh-gateway-data:/opt/soffid/iam-sync/conf

networks:
  network:
    name: netcompose
    driver: bridge

volumes:
```

```
  ssh-gateway-data:
    name: compose-ssh-gateway-data
```

Execute:

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

Environment Variables

To create the new SSH container you need to set the following environment variables:

Variable	Description	Example
SOFFID_SERVER	Sync Server URL	https://syncserver01.soffid.com:1760
SOFFID_USER	Soffid user to join the security domain	admin
SOFFID_PASSWORD	Soffid user password	*********
SOFFID_HOSTNAME	The hostname used to access the ssh gateway	ssh-gateway
STORE_SERVER	Store URL	http://soffid-pam-store:8080
STORE_PASSWORD	Password received when you created the user in the store container.	**********
STORE_USER	Store user	proxyssh

SSH Gateway Connection

Introduction

We can establish a connection to the target system using the SSH remote access protocol.

How to connect 1

You can establish the connection with the ssh gateway and then Soffid will ask your password and the target system parameters to connect:

- **Password**: password of your account to connect to Soffid.
- **Target server**: system to which you want to connect.
- **Account to use**: account to use to connect to the target system.
- **Account source system**

```
root@soffid:~# ssh -p 2222 dilbert@ssh-gateway
Password:
Target server: 10.129.120.5
Account to use: patricia
Account source system [leave blank to use a target system local account]:
 ________________________________________
|             __                 |
|           __/     |            |
|  __   __  _/__|__o  __|           |
| |__  /  \  |  |  | /  |           |
|   __| \__/  |  |  | \__/  SSH GATEWAY  |
|         __/                    |
|                                |
| Hello dilbert                      |
| NOTICE: This session is being recorded |
|________________________________________|


Connecting to 10.129.120.5 as patricia
```

```
Last login: Fri Apr  8 08:39:23 2022 from 10.129.120.6
[patricia@forgecentos ~]$
```

How to connect 2

You can establish the connection with the target system typing all the parameters to connect in one line AccountName__HostName__TargetAccount. At the end, Soffid will ask the password of your account to connect.

- **Account name**: account to connect to Soffid.
- **Host name**: target system to which you want to connect.
- **Target account**: account to connect to the target system.
- **Password**: password of your account to connect to Soffid.

```
root@soffid:~# ssh -p 2222 dilbert__10.129.120.5__patricia@ssh-gateway
Password:
 ____________________________________
|             __                     |
|           __/     |                |
|   __   __  _/__|__o  __|           |
|  |__  /  \  |  |  | /  |           |
|   __| \__/  |  |  | \__/  SSH GATEWAY  |
|         __/                        |
|                                    |
| Hello dilbert                      |
| NOTICE: This session is being recorded |
|____________________________________|


Connecting to 10.129.120.5 as patricia
Last login: Fri Apr  8 09:57:22 2022 from 10.129.120.6
[patricia@forgecentos ~]$
```

How to connect 3

You can establish the connection with the target system typing all the parameters to connect in one line AccountName__HostName__TargetAccount and using a ssh key.

- **Account name**: account to connect to Soffid.
- **Host name**: target system to which you want to connect.
- **Target account**: account to connect to the target system.

You can generate an ssh key to connect or use your existing ssh key.

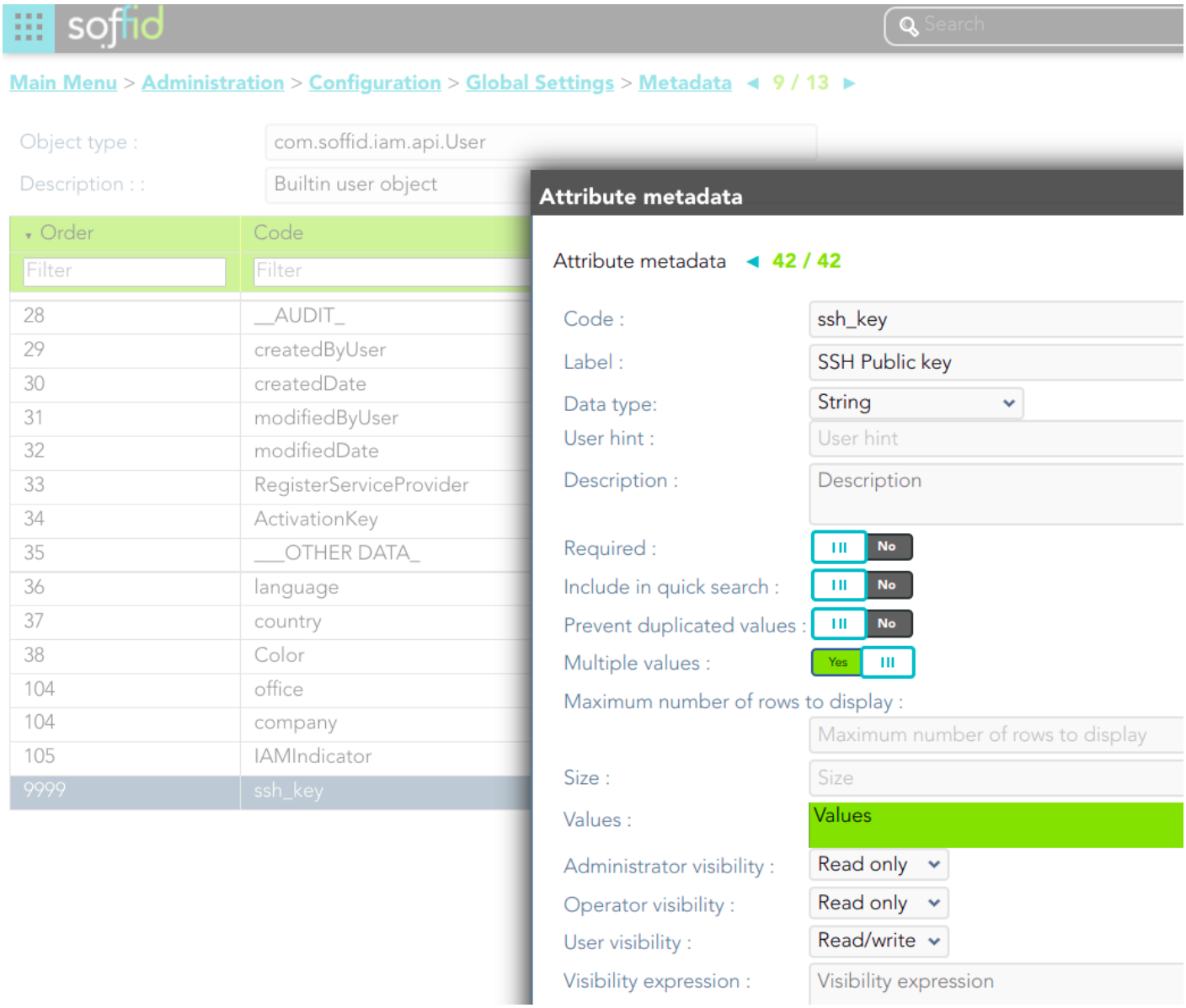
- Generate a new ssh key: `ssh-keygen -t rsa`
- Read an existing ssh key: `cat .ssh/id_rsa.pub`

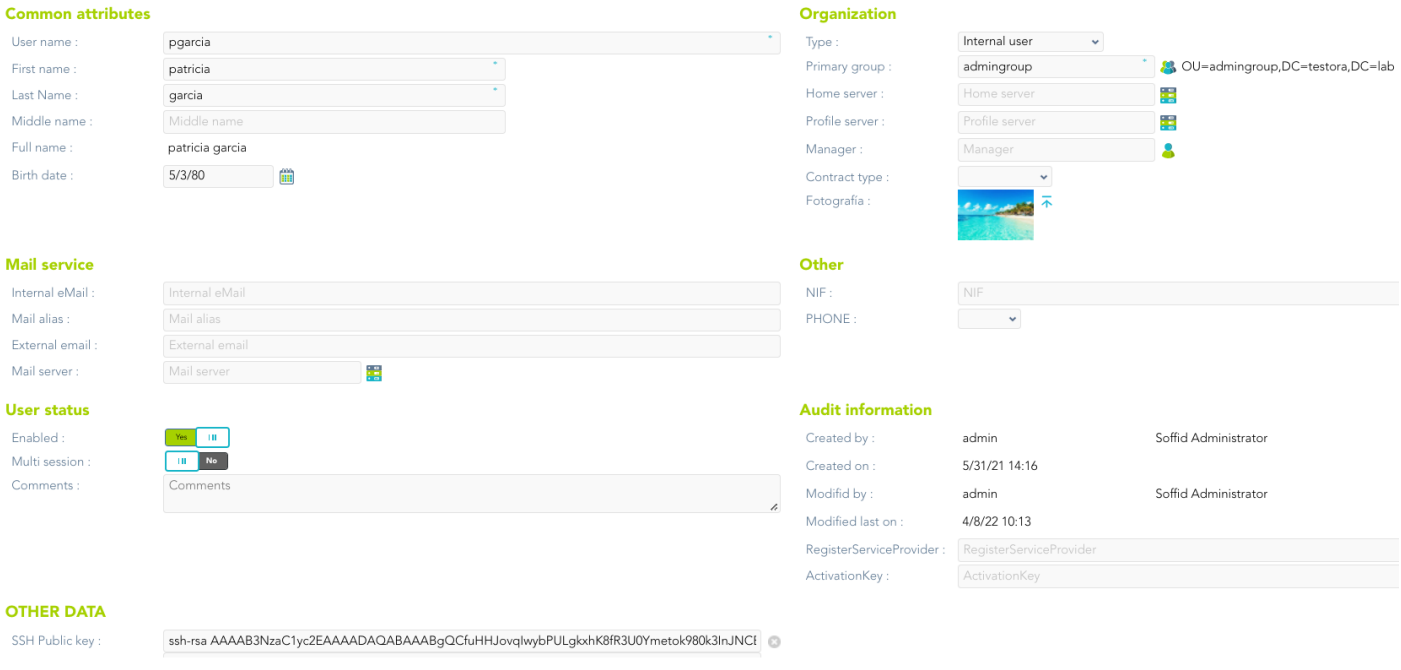
Then you need to include it in Soffid Console in your user data.

Finally you can establish the connection.

```
pgarcia@soffid:~$ ssh -p 2222 pgarcia__10.129.120.5__patricia@ssh-gateway
 ________________________________________
|              __                |
|           __/     |            |
|  __   __  _/__|__o  __|        |
| |__  /  \  |  |  | /  |        |
|  __| \__/  |  |  | \__/  SSH GATEWAY  |
|         __/                    |
|                               |
| Hello pgarcia                      |
| NOTICE: This session is being recorded |
|________________________________________|


Connecting to 10.129.120.5 as patricia
Last login: Fri Apr  8 11:57:19 2022 from 10.129.120.6
[patricia@forgecentos ~]$
```

> Soffid needs the **ssh_key** attribute in the user object metadata, please check the attribute is created properly, and the fill in with your public key.


soffid
Search
Main Menu > Administration > Configuration > Global Settings > Metadata ◄ 9 / 13 ►
Object type : com.soffid.iam.api.User
Description : : Builtin user object
Order
Code
Filter
28 __AUDIT_
29 createdByUser
30 createdDate
31 modifiedByUser
32 modifiedDate
33 RegisterServiceProvider
34 ActivationKey
35 ___OTHER DATA_
36 language
37 country
38 Color
104 office
104 company
105 IAMIndicator
9999 ssh_key
Attribute metadata
Attribute metadata ◄ 42 / 42
Code : ssh_key
Label : SSH Public key
Data type: String
User hint : User hint
Description : Description
Required : No
Include in quick search : No
Prevent duplicated values : No
Multiple values : Yes
Maximum number of rows to display :
Maximum number of rows to display
Size : Size
Values : Values
Administrator visibility : Read only
Operator visibility : Read only
User visibility : Read/write
Visibility expression : Visibility expression


Common attributes
User name : pgarcia
First name : patricia
Last Name : garcia
Middle name : Middle name
Full name : patricia garcia
Birth date : 5/3/80
Organization
Type : Internal user
Primary group : admingroup
OU=admingroup,DC=testora,DC=lab
Home server : Home server
Profile server : Profile server
Manager : Manager
Contract type :
Fotografia :
Mail service
Internal eMail : Internal eMail
Mail alias : Mail alias
External email : External email
Mail server : Mail server
Other
NIF : NIF
PHONE :
User status
Enabled : Yes
Multi session : No
Comments : Comments
Audit information
Created by : admin Soffid Administrator
Created on : 5/31/21 14:16
Modifid by : admin Soffid Administrator
Modified last on : 4/8/22 10:13
RegisterServiceProvider : RegisterServiceProvider
ActivationKey : ActivationKey
OTHER DATA
SSH Public key : ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQCfuHHJovqIwybPULgkxhK8fR3U0Ymetok980k3InJNCI

https://es.wikipedia.org/wiki/Secure_Shell

RDP gateway

RDP Gateway Docker Installation

Introduction

Soffid allows you to deploy a new docker container with the **RDP gateway**. The configuration is similar to the sync server configuration.

Prerequisites

The RDP Service is only released as a docker service.

1. Install docker (https://docs.docker.com/install/)

2. Install Soffid PAM (store container and launcher container)

> You can visit the PAM Jump Server Installation page for more information about how to install PAM

3. Create a Docker network(*), that network allows you to connect containers to the same bridge network to communicate:

```
sudo docker network create -d bridge NETWORKNAME
```

* *You can use the same network defined in the Console and Sync Server installation to avoid visibility problems.*

Installation

The steps required to install RDP container are:

1. Create a user

We need to create a user in the pam store container. To do this, we need to connect to the store container.

```
sudo docker exec -it soffid-pam-store /bin/bash
```

Once, we are connected to the container, we need to run a script to create the user. This script has two parameters, the user name, and the role. We have to type launcher in the role parameter

```
root@soffid-pam-store:/# /opt/soffid/tomee/bin/add-user.sh proxyrdptest launcher
Password: c4ZRcmgemq3nMr1VQJCD1pJRhPbdX5hrmmrP6RX7zBE4HSs3RV3+cGwDdL1WaaqZ
root@soffid-pam-store:/#
```

As a result of the script, we receive the password for the created user. This password will be needed later when we create the container.

2. Create volume

We need to create a volume that will be used by the docker container

```
sudo docker volume create soffid-rdp
```

3. Create a docker container

Finally, we need to execute the command to create the rdp gateway container

```
docker run \
  --name soffid-rdp \
  -e SOFFID_SERVER=https://iam-sync.soffidnet:1760 \
  -e SOFFID_USER=admin \
  -e SOFFID_PASS=changeit \
  -e SOFFID_HOSTNAME=rdp-gateway \
  -e STORE_SERVER=http://soffid-pam-store:8080 \
  -e STORE_PASSWORD=/Dp77Kho5QB2vVKjNNGmXYLzVa6PoPWJ8p0E4O7EP++9/ZM+l3cieGKMRSgOnFCMc \
  -e STORE_USER=proxyrdp \
  -v soffid-rdp:/opt/soffid/iam-sync/conf \
  --privileged \
  --shm-size=1024m  \
```

```
-p 3389:3389 \
--network=soffidnet.intenal \
soffid/pam-rdp:1.4.2
```

Environment Variables

To create the new SSH container you need to set the following environment variables:

Variable	Description	Example
SOFFID_SERVER	Sync Server URL	https://syncserver01.soffid.com:1760
SOFFID_USER	Soffid user to join the security domain	admin
SOFFID_PASSWORD	Soffid user password	changeit
SOFFID_HOSTNAME	The hostname used to access the ssh gateway	ssh-gateway
STORE_SERVER	Store URL	http://soffid.pat.pam:8082
STORE_PASSWORD	Password received when you created the user in the store container.	**********
STORE_USER	Store user	proxyrdp

RDP Gateway Docker Compose Installation

Introduction

Soffid allows you to deploy a new docker container with the **RDP gateway**. The configuration is similar to the sync server configuration.

Prerequisites

The RDP Service is only released as a docker service.

1. Install docker (https://docs.docker.com/install/)
2. Install docker compose (https://docs.docker.com/compose/install/)
3. Install Soffid PAM (store container and launcher container)

> You can visit the PAM Jump Server Installation page for more information about how to install PAM

Installation

The steps required to install RDP container are:

1. Create a user

We need to create a user in the pam store container. To do this, we need to connect to the store container.

```
sudo docker exec -it soffid-pam-store /bin/bash
```

Once, we are connected to the container, we need to run a script to create the user. This script has two parameters, the user name, and the role. We have to type launcher in the role parameter

```
root@soffid-pam-store:/# /opt/soffid/tomee/bin/add-user.sh proxyrdp-user launcher
Password: c4ZRcmgemq3nMr1VQJCD1pJRhPbdX5hrmmrP6RX7zBE4HSs3RV3+cGwDdL1WaaqZ
root@soffid-pam-store:/#
```

As a result of the script, we receive the password for the created user. This password will be needed later when we create the container.

2. Execute the YAML

```
version: '3.8'

services:
  ssh-gateway:
    image: soffid/pam-rdp:1.4.47
    environment:
      SOFFID_SERVER: https://syncserver01.soffid.com:1760
      SOFFID_USER: admin
      SOFFID_PASS: admin123
      SOFFID_HOSTNAME: rdp-gateway-2
      STORE_SERVER: https://soffid-pam-store:8443
      STORE_PASSWORD: c4ZRcmgemq3nMr1VQJCD1pJRhPbdX5hrmmrP6RX7zBE4HSs3RV3+cGwDdL1WaaqZ
      STORE_USER: proxyrdp
    ports:
      - "2222:22"
    networks:
      - network
    volumes:
      - rdp-gateway-data:/opt/soffid/iam-sync/conf

networks:
  network:
    name: netcompose
    driver: bridge
```

```
volumes:
  rdp-gateway-data:
    name: compose-rdp-gateway-data
```

Execute:

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

Environment Variables

To create the new SSH container you need to set the following environment variables:

Variable	Description	Example
SOFFID_SERVER	Sync Server URL	https://syncserver01.soffid.com:1760
SOFFID_USER	Soffid user to join the security domain	admin
SOFFID_PASSWORD	Soffid user password	changeit
SOFFID_HOSTNAME	The hostname used to access the ssh gateway	ssh-gateway
STORE_SERVER	Store URL	http://soffid.pat.pam:8082
STORE_PASSWORD	Password received when you created the user in the store container.	**********
STORE_USER	Store user	proxyrdp

RDP Gateway Connection

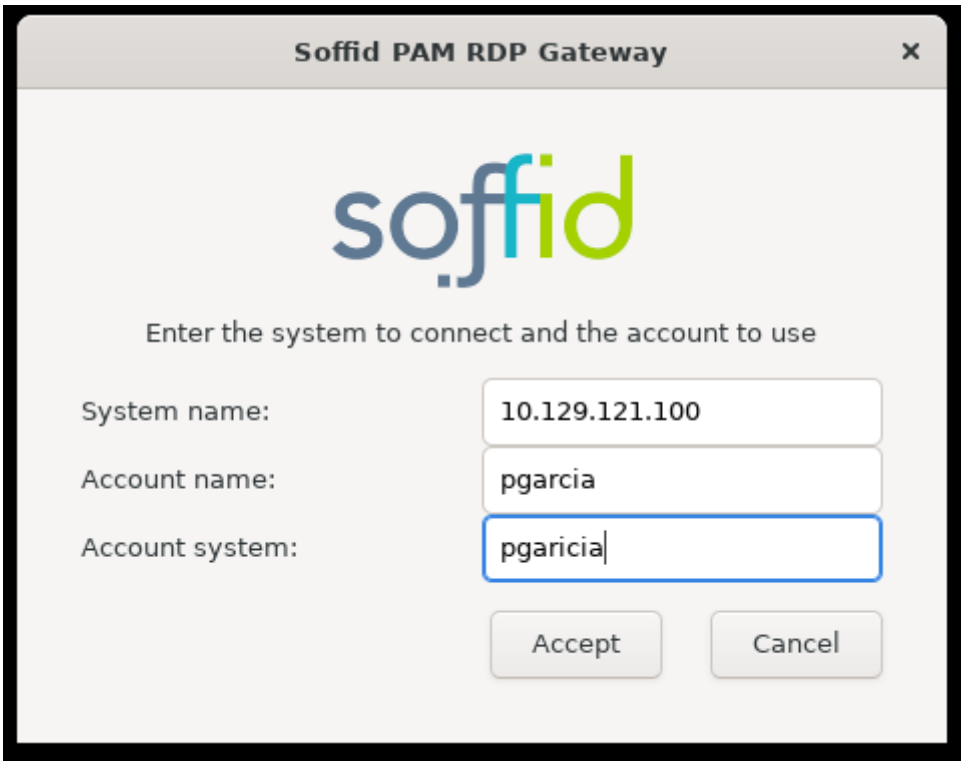
Introduction

We can establish a connection to the target system using the RDP remote access protocol. You can use a remote desktop client.

How to connect

You can establish the connection with the ssh gateway using a desktop client and then Soffid will ask you the parameters to connect:

- **System name**: system to which you want to connect.
- **Account name**: Soffid's account.
- **Account system:** account to use to connect to the target system.

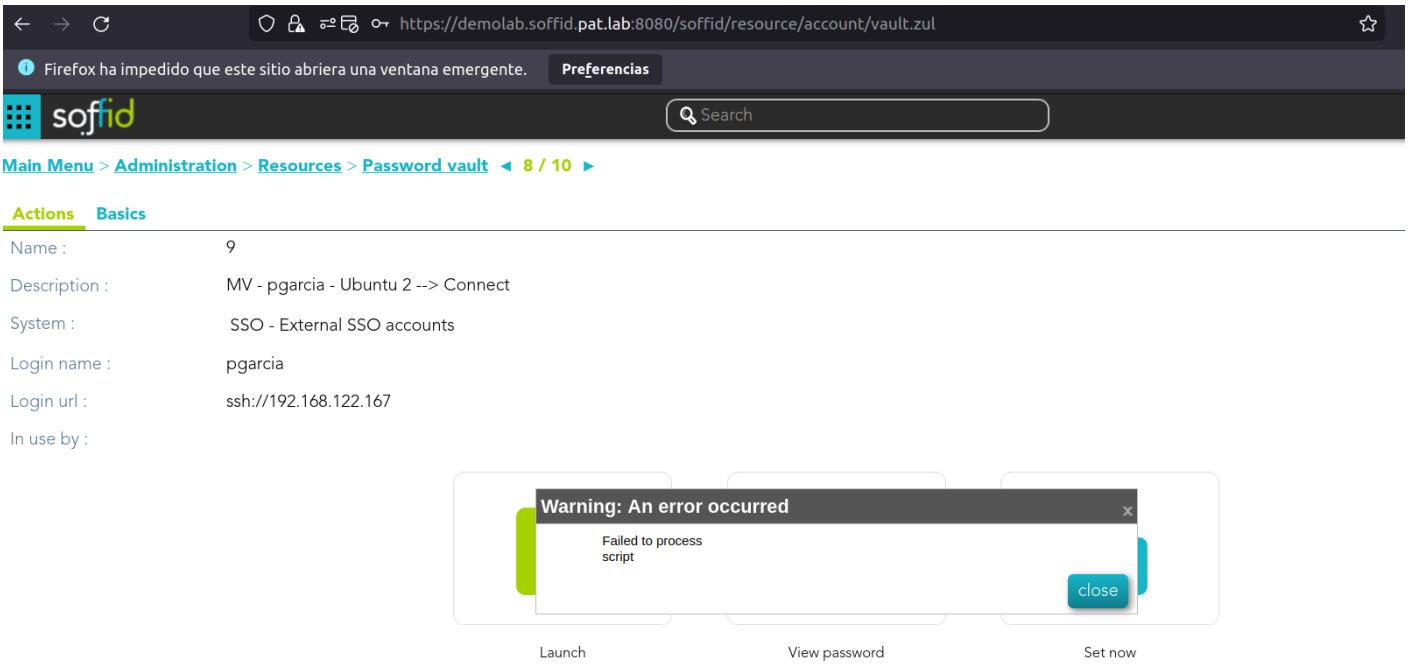


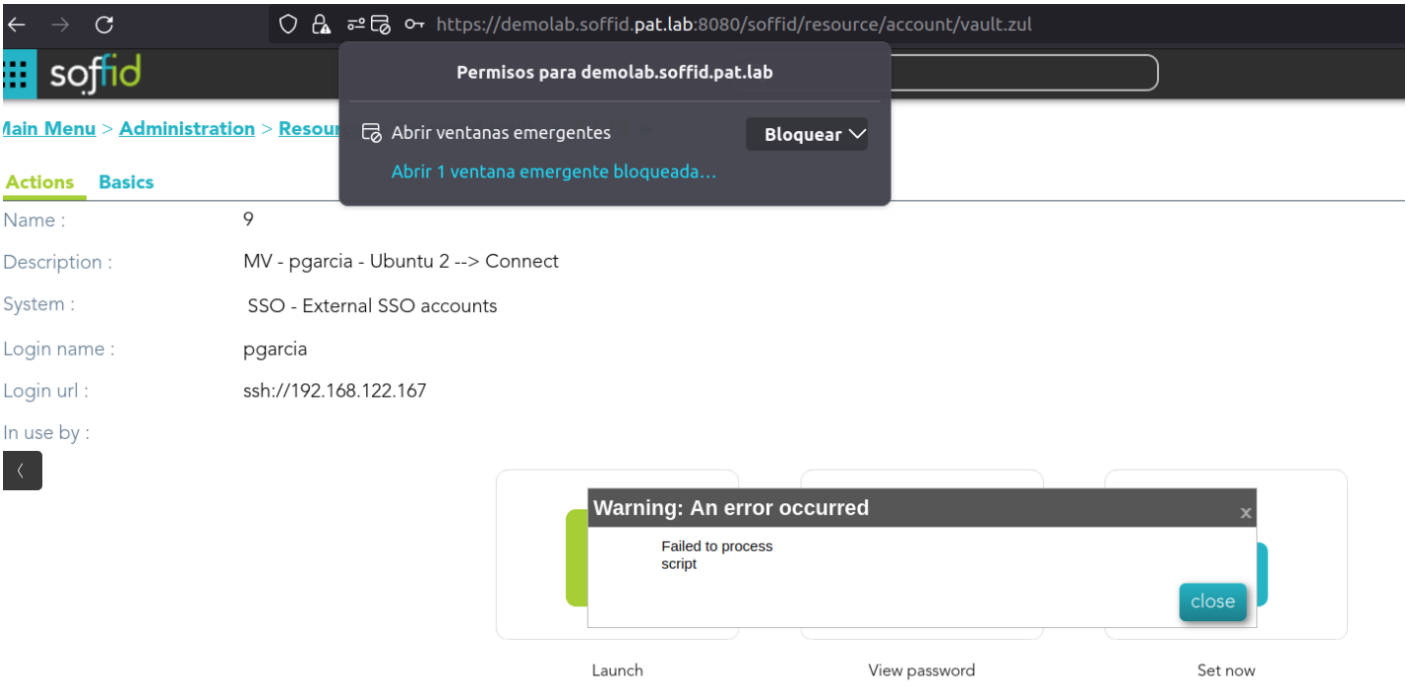
---

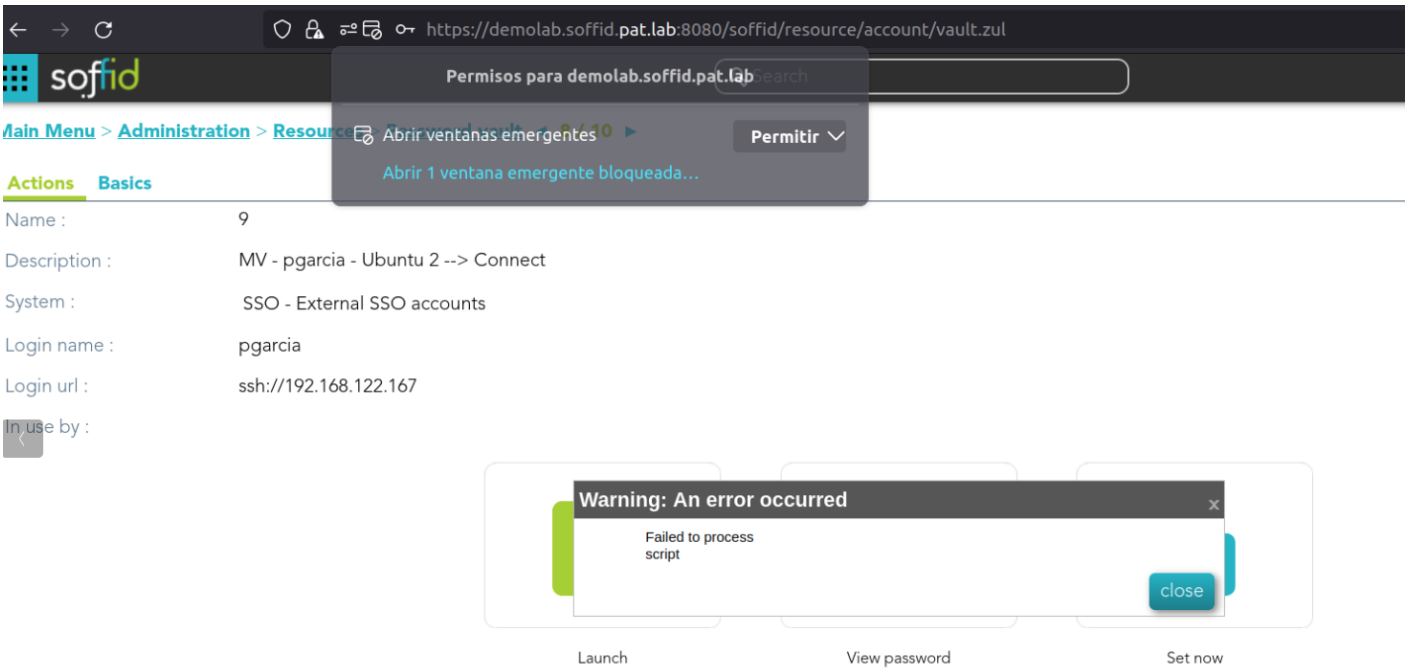
https://es.wikipedia.org/wiki/Remote_Desktop_Protocol

To bear in mind

If you are working with Mozilla Firefox, it will be possible that this message will be displayed.
To solve it, you must allow the pop-up windows






https://demolab.soffid.pat.lab:8080/soffid/resource/account/vault.zul
soffid
Permisos para demolab.soffid.pat.lab
Abrir ventanas emergentes
Permitir
Abrir 1 ventana emergente bloqueada...
Main Menu > Administration >
Actions
Basics
Name :
9
Description :
MV - pgarcia - Ubuntu 2 --> Connect
System :
SSO - External SSO accounts
Login name :
pgarcia
Login url :
ssh://192.168.122.167
In use by :
Warning: An error occurred
Failed to process
script
close
Launch
View password
Set now

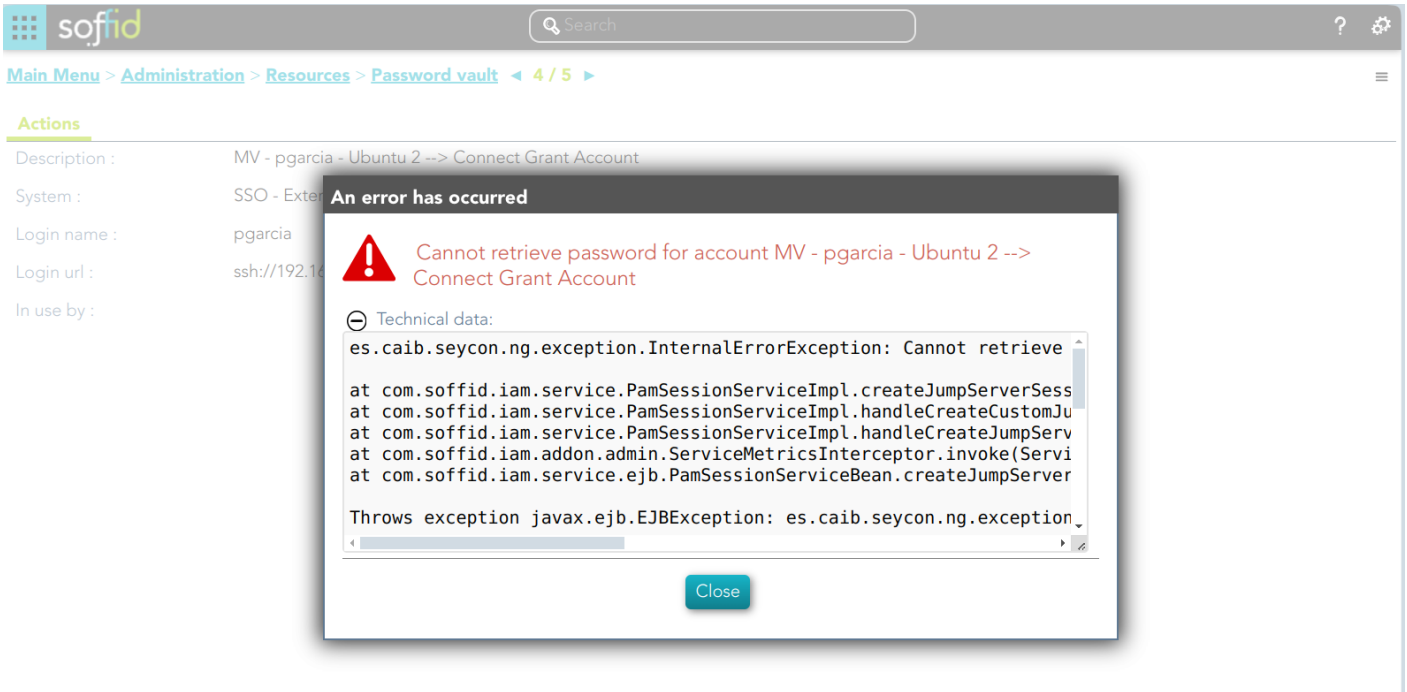
Cannot retrieve password for account ... ...

Error

Description

Cannot retrieve the password for the account ... ...

Screen overview



Log

es.caib.seycon.ng.exception.InternalErrorException: Cannot retrieve password for account MV - pgarcia - Ubuntu 2 --> Connect Grant Account

at com.soffid.iam.service.PamSessionServiceImpl.createJumpServerSession(PamSessionServiceImpl.java:189)
at com.soffid.iam.service.PamSessionServiceImpl.handleCreateCustomJumpServerSession(PamSessionServiceImpl.java:802)
at com.soffid.iam.service.PamSessionServiceImpl.handleCreateJumpServerSession(PamSessionServiceImpl.java:144)
at com.soffid.iam.addon.admin.ServiceMetricsInterceptor.invoke(ServiceMetricsInterceptor.java:36)
at com.soffid.iam.service.ejb.PamSessionServiceBean.createJumpServerSession(PamSessionServiceBean.java:77)... 76 more

Throws exception javax.ejb.EJBException: es.caib.seycon.ng.exception.InternalErrorException: Cannot retrieve password for account MV - pgarcia - Ubuntu 2 --> Connect Grant Account

at com.soffid.iam.service.ejb.PamSessionServiceBean.createJumpServerSession(PamSessionServiceBean.java:84)... 57 more

Throws exception javax.ejb.EJBException: The bean encountered a non-application exception; nested exception is:
javax.ejb.EJBException: es.caib.seycon.ng.exception.InternalErrorException: Cannot retrieve password for account MV - pgarcia - Ubuntu 2 --> Connect Grant Account

at com.soffid.iam.web.vault.LaunchHelper.launchPamAccount(LaunchHelper.java:69)
at com.soffid.iam.web.vault.LaunchHelper.launchAccount(LaunchHelper.java:60)
at com.soffid.iam.web.account.VaultHandler.launch(VaultHandler.java:649)
at com.soffid.iam.web.interp.RefInterpreter.exec(RefInterpreter.java:75)... 48 more

Throws exception org.zkoss.zk.ui.UiException: javax.ejb.EJBException: The bean encountered a non-application exception; nested exception is:
javax.ejb.EJBException: es.caib.seycon.ng.exception.InternalErrorException: Cannot retrieve password for account MV - pgarcia - Ubuntu 2 --> Connect Grant Account

at com.soffid.iam.web.interp.RefInterpreter.exec(RefInterpreter.java:101)
at com.soffid.addons.xacml.pep.XACMLFilter.doFilter(XACMLFilter.java:210)

at es.caib.bpm.filters.WorkflowInterceptor.doFilter(WorkflowInterceptor.java:183)

at com.soffid.iam.filter.TenantFilter.doFilter(TenantFilter.java:79)

How to solve it

You need to set the password to this account