



# INSTALL JUMPSERVER TO ROCKY LINUX 9

| OPEN SOURCE - PAM (Privileged Access Management)

| GUIDE: <https://www.jumpserver.com/docs/installation>

| JumpServer v4.0 Quickstart Guide (ip addr | head -n 13)

## PREREQUISITES:

| Running Rocky Linux 9 or Any Red Hat Based Linux Distribution

### 1 TASK 1: Update the Rocky Linux 9 and Install the Jump server

 **sudo dnf update -y**

```
root@localhost:~  
[root@localhost ~]#  
[root@localhost ~]# sudo dnf update -y  
Rocky Linux 9 - BaseOS  
Rocky Linux 9 - AppStream  
Rocky Linux 9 - Extras  
Dependencies resolved.  
593 kB/s | 2.3 MB | 00:03  
144 kB/s | 8.0 MB | 00:56  
6.1 kB/s | 15 kB | 00:02  
Package Architecture Version Repository Size  
Installing:  
kernel x86_64 5.14.0-427.42.1.el9_4 baseos 4.3 M  
Upgrading:  
bpftool x86_64 7.3.0-427.42.1.el9_4 baseos 5.1 M  
kernel-tools x86_64 5.14.0-427.42.1.el9_4 baseos 4.5 M  
kernel-tools-libs x86_64 5.14.0-427.42.1.el9_4 baseos 4.3 M  
microcode_ctl noarch 4:20230808-2.20240531.1.el9_4 baseos 8.5 M  
python3 x86_64 3.9.18-3.el9_4.6 baseos 25 k  
python3-libs x86_64 3.9.18-3.el9_4.6 baseos 7.3 M  
python3-perf x86_64 5.14.0-427.42.1.el9_4 baseos 4.4 M  
Installing dependencies:  
kernel-core x86_64 5.14.0-427.42.1.el9_4 baseos 19 M  
kernel-modules x86_64 5.14.0-427.42.1.el9_4 baseos 38 M  
kernel-modules-core x86_64 5.14.0-427.42.1.el9_4 baseos 32 M  
Transaction Summary  
Install 4 Packages  
Upgrade 7 Packages  
Total download size: 127 M  
Downloading Packages:  
[MIRROR] kernel-core-5.14.0-427.42.1.el9_4.x86_64.rpm: Status code: 404 for https://rocky-linux-asia-south2.production.gcp.mirrors.ctrliq.cloud/pub/rocky/9.4/BaseOS/x86_64/os/Packages/k/kernel-core-5.14.0-427.42.1.el9_4.x86_64.rpm (IP: 34.160.207.236)  
[1-3/11]: kernel-core-5.14.0-427.42.1.el9_4.x86_64.rpm 6% [== ] 1.9 MB/s | 8.6 MB | 01:02 ETA
```

• Next paste this command to Install Jumpserver to Rocky Linux 9



[curl -sSL https://github.com/jumpserver/jumpserver/releases/latest/download/quick\\_start.sh](https://github.com/jumpserver/jumpserver/releases/latest/download/quick_start.sh) | bash

```
root@localhost:~  
[root@localhost ~]#  
[root@localhost ~]# curl -sSL https://github.com/jumpserver/jumpserver/releases/latest/download/quick_start.sh | bash  
download install script to /opt/jumpserver-installer-v4.3.1
```

# JUMPSEVER

Version: v4.3.1-ce

## 1. Check Configuration File

```
Path to Configuration file: /opt/jumpserver/config  
/opt/jumpserver/config/config.txt [✓]  
/opt/jumpserver/config/loki/promtail.yml [✓]  
/opt/jumpserver/config/nginx/cert/server.crt [✓]  
/opt/jumpserver/config/nginx/cert/server.key [✓]
```

## >>> Install and Configure Docker

### 1. Install Docker

Starting to download: [https://download.jumpserver.org/docker/docker-ce/linux/static/stable/x86\\_64/docker-27.1.1.tgz.md5](https://download.jumpserver.org/docker/docker-ce/linux/static/stable/x86_64/docker-27.1.1.tgz.md5)

## 2 TASK 2: Access the GUI of Jumpserver



Open any browser type [http:// IP ADDRESS OF ROCKY](http://IP ADDRESS OF ROCKY)

For more commands, you can check [/jumpserver/help](#) to find

## 3. Web access

<http://192.168.108.129:80>

Default username: admin Default password: ChangeMe

### More information



username: **admin**


Default password: **ChangeMe**

← ↻ ⚠ Not secure | 192.168.108.129/core/auth/login/ 🔍 ☆ ⚙ | ☆

## Sign in

English ▾

  
  
☐ Remember me [Forgot password?](#)



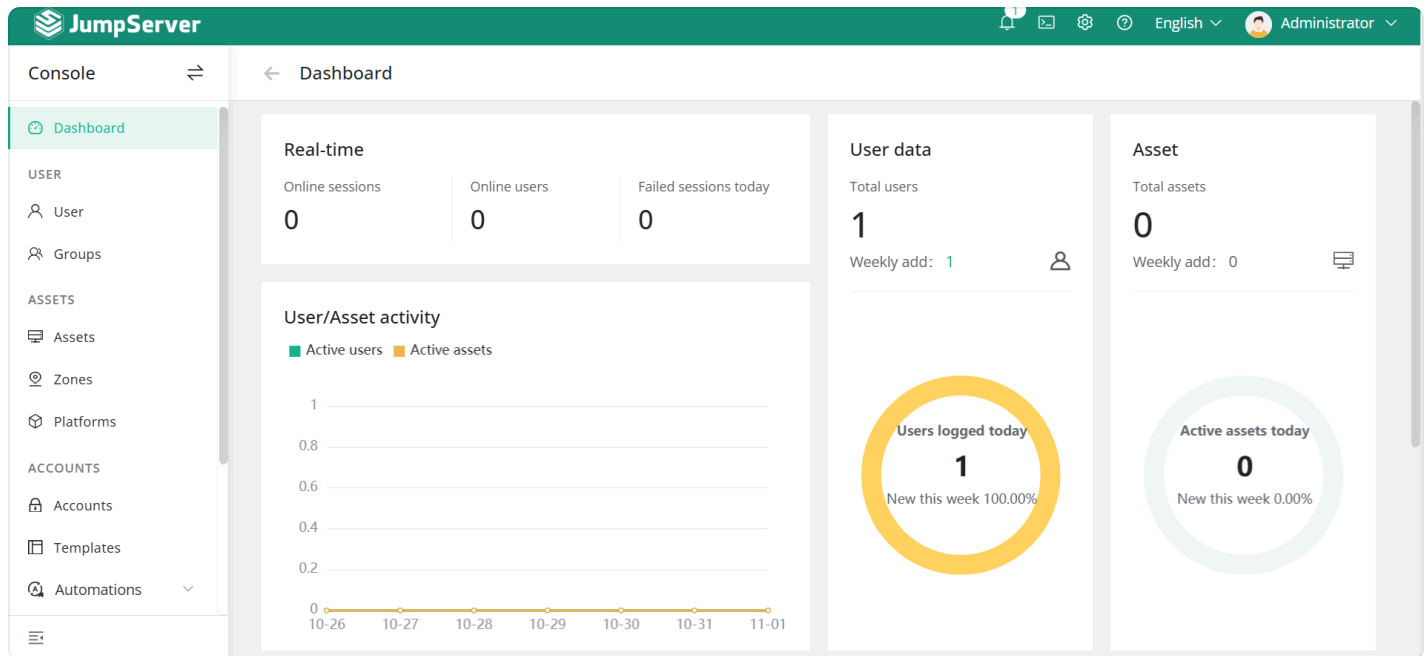
SIGN IN

**Change the Default Password then login again**

# Please change your password

Your password is too simple, please change it for security, 1 ...

Confirm



### 3 TASK 3: Create user

Go user tab Click Create

**JumpServer** English Administrator

Console User

+ Create Actions

Search

<input type="checkbox"/>	Name	Username	Email	Groups	Valid	Actions
<input type="checkbox"/>	Administrator	admin	admin@example.com	0	Yes	Edit

Total 1

15/page 1

← Create user

Basic

\* Name ⓘ

user1

\* Username ⓘ

user1

\* Email ⓘ

user1@gmail.com

Groups

User groups to join

Authentication

Password setting

☐ Reset link will be generated and sent to the user

☒ Set password

Password

.....

7+

👁

☒ Password must be changed during next login

MFA ⓘ

☒ Disabled

☐ Enabled

☐ Force enabled ⓘ

Click Submit

+ Create

Actions ▾

🔍 Search

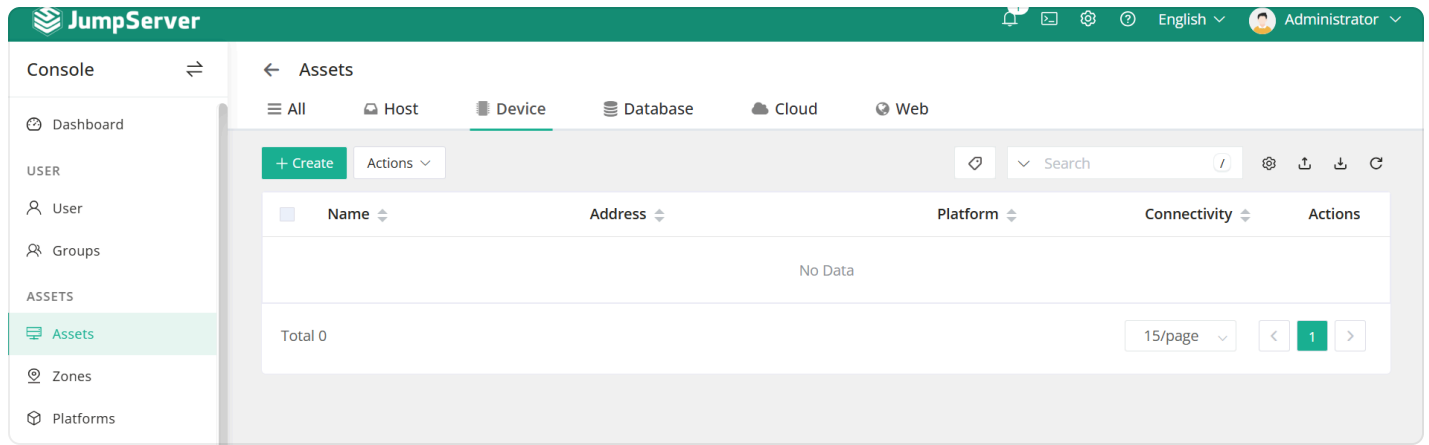
⚙️ ⬆️ ⬇️ ↺

<input type="checkbox"/>	Name ▾	Username ▾	Email ▾	Groups	Valid	Actions
<input type="checkbox"/>	<a href="#">Administrator</a>	admin	admin@example.com	0	✔ Yes	<div>Edit...</div>
<input type="checkbox"/>	<a href="#">user1</a>	user1	user1@gmail.com	0	✔ Yes	<div>Edit...</div>
Total 2				15/page ▾	< 1 >	

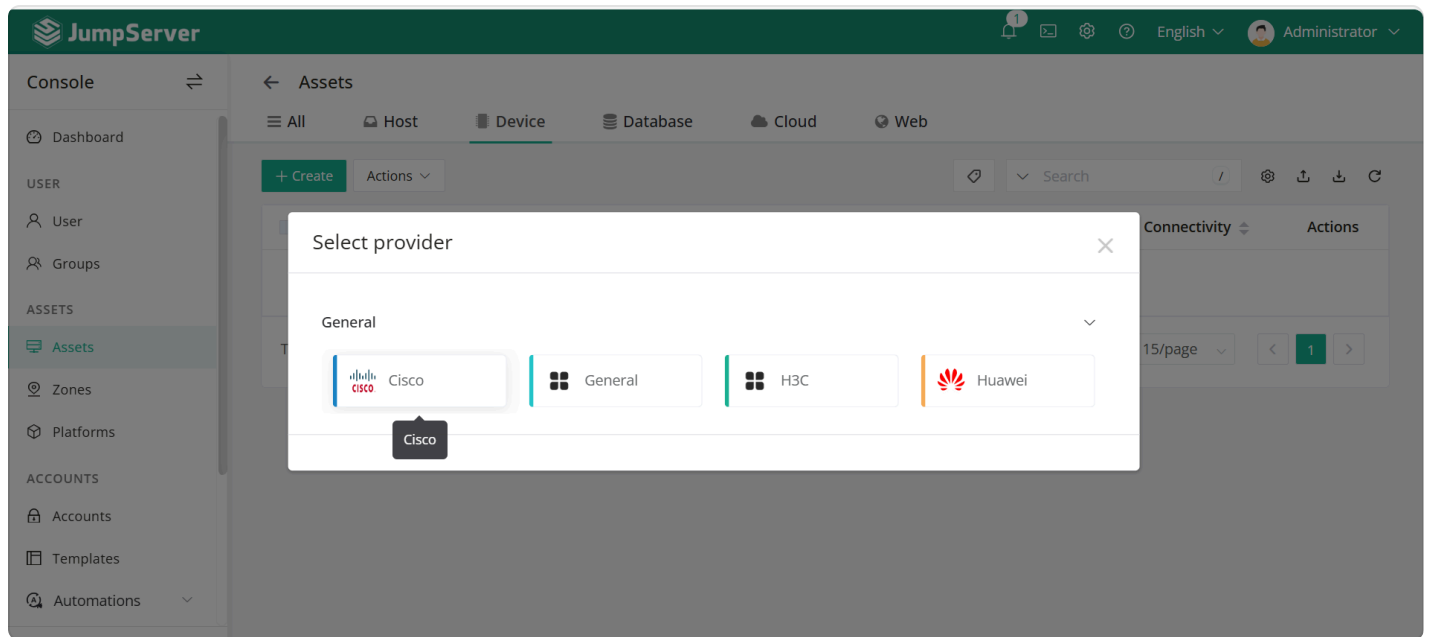
4

TASK 4: Add Asset

Go to Asset tab - Click Device - Click Create



## Select "Cisco"



## Fill up the Details

### Basic

\* Name

\* Address

\* Platform

\* Nodes

### Protocol

Protocols	ssh	22		
	telnet	23		

The protocols supported by the assets are restricted by the platform. Click the settings button to view the protocol settings. If updates are required, please update the platform

### Click Add account

### Account

Accounts

Name	Username	Privileged	Add from temp...	Actions
No Data				

Put the username and password of the cisco router

Click Confirm

## Add account



### Basic

\* Name

admin

\* Username

admin

if no username is required for authentication, enter null. for AD accounts, use the format username@domain.

Privileged



### Password

Secret type



Password



SSH key

Password

.....



### Other

Active



Description

Description



### Click Submit

### Other

Zone

Select



Tags

Please select tags



Active



Description

Description will be displayed when hovered over in the Luna page's user authorization asset tree. Ordinary users can view these remarks, so please do not include sensitive information.



Submit

Save & Continue

Make sure the connectivity status is "OK"



<input type="checkbox"/>	Name ▾	Address ▾	Platform ▾	Connectivity ▾	Actions
<input type="checkbox"/>	Router1	192.168.108.128	Cisco	✓ OK	<a href="#">Edit</a> <a href="#">...</a>
Total 1				15/page ▾	<a href="#">&lt;</a> <a href="#">1</a> <a href="#">&gt;</a>

## 5 TASK 5: Create Authorization

Go to Authorization tab - Click Create

**JumpServer**

English ▾
Administrator ▾

Console
Authorization

Assets
Zones
Platforms
ACCOUNTS
Accounts
Templates
Automations
POLICIES
Authorization
ACLs

Asset tree

+ Create
Actions ▾

Name ▾
Users
Groups
Assets
Nodes
Accounts
Valid
Actions ▾

No Data

Total 0
15/page ▾
1

Details:

### Basic

\* Name

### User

Users

Groups

### Asset

Assets

Nodes

## Account

Accounts ☐ All existing accounts <sup>?</sup> ☒ Specified accounts <sup>?</sup> ☐ Virtual accounts <sup>?</sup>

### Specified accounts

admin x Input (Enter to continue)

Add from template

When selecting a template to add, accounts that do not exist under the asset will be automatically created and pushed

## Protocol

Protocols ☒ All protocol ☐ Specific protocol

## Action

Action ☒ All

☒ Connect <sup>?</sup>

## Then Click Submit

ACTION ☒ All

☒ Connect <sup>?</sup>

▶ ☒ Transfer

▶ ☒ Clipboard

☒ Share <sup>?</sup>

The effects of each authority's agreement are different, click on the icon behind the authority to view

## Other

Active ☒

Date start

Date expired

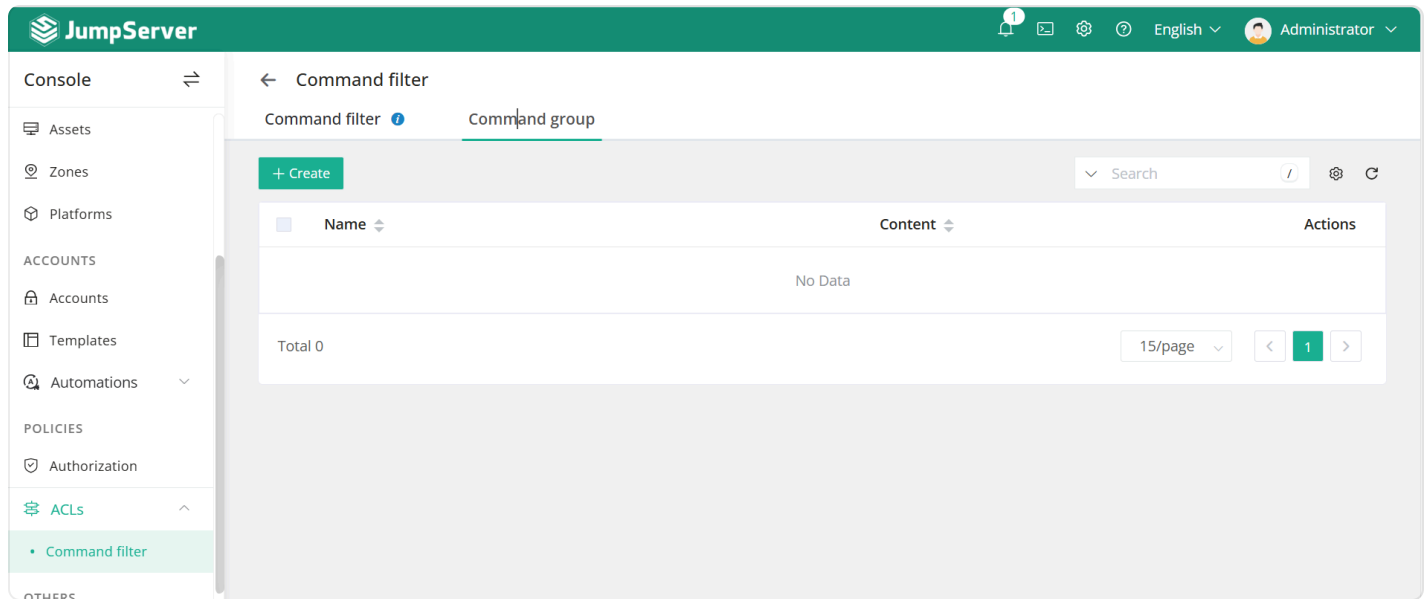
Description

Submit

Save & Continue

## 6 TASK 6: Create ACLs

Go to ACLs tab - Click Command Filter - Go to Command Group - Click Create



**Add commands that user1 cannot use or that will not work.**

**Then Click “Submit”**

**Basic**

\*

Name

Command1

Type

•

Command

○

Regex

\*

Content ?

write memory  
wr

Ignore case

Description

Description

Submit

Save & Continue

**After creating command group lets create command Filter**

**Go to Command filter tab - Click Create**

JumpServer

English

Administrator

Console

Assets

Zones

Platforms

ACCOUNTS

Accounts

Templates

Automations

POLICIES

Authorization

ACLs

Command filter

← Command filter

Command filter

Command group

+ Create

Actions

Search

	Name	Command group	Priority	Active	Description	Actions
No Data						
Total 0						15/page < 1 >

Details:

Basic

\* Name

Filter1

Priority ?

50

User

\* User

All user

Specific user

Filter by attribute

user1(user1) x

Asset

\* Asset

All asset

Specific asset

Filter by attribute

Router1(192.168.108.128) x

## Account

\* Account ☐ All existing accounts ? ☒ Specified accounts ? ☐ Virtual accounts ?

Specified accounts

admin x Input (Enter to continue)

## Command group

Command group

Command1 x

## Action

Action ☒ Reject ☐ Accept ☐ Warn ☐ Notify and warn

For Action select REJECT

Then click submit

## Action

Action ☒ Reject ☐ Accept ☐ Warn ☐ Notify and warn

## Other

Active ☒

Description

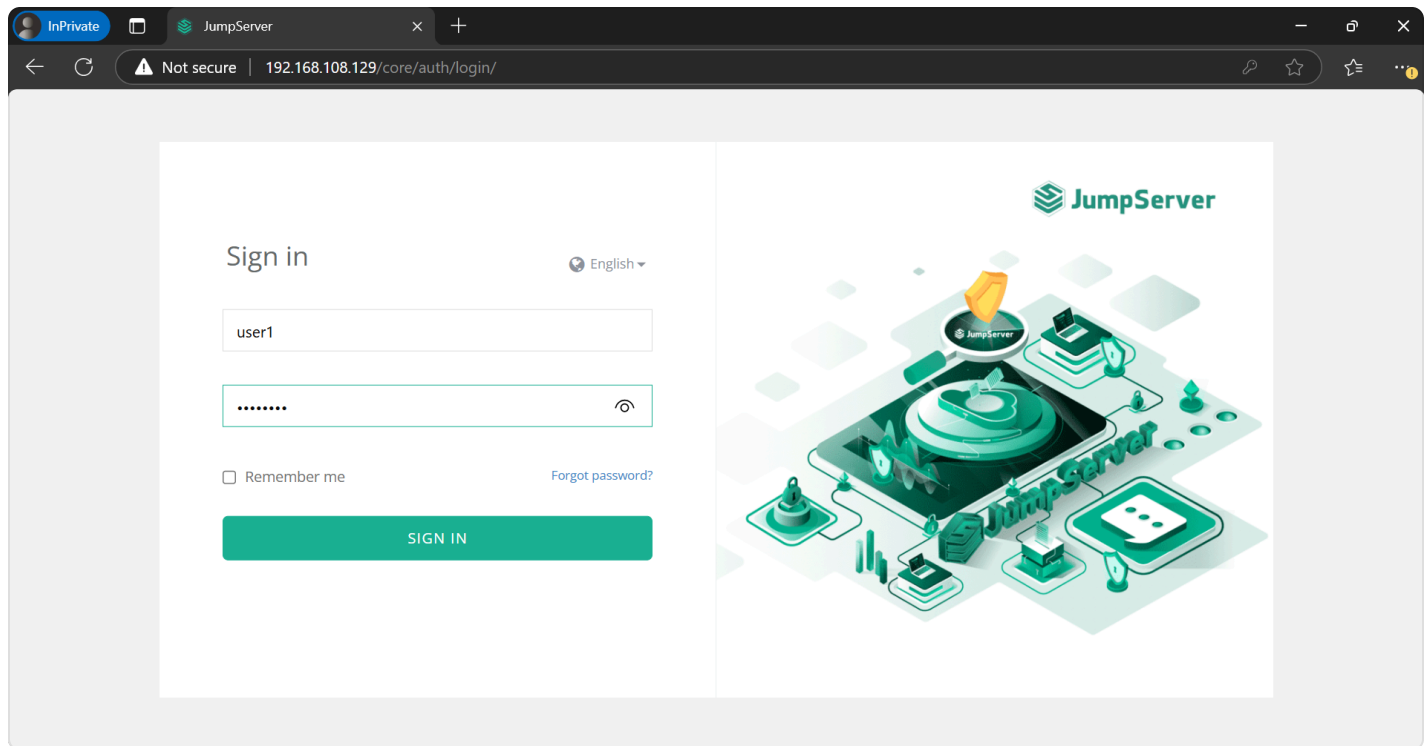
Description

Submit

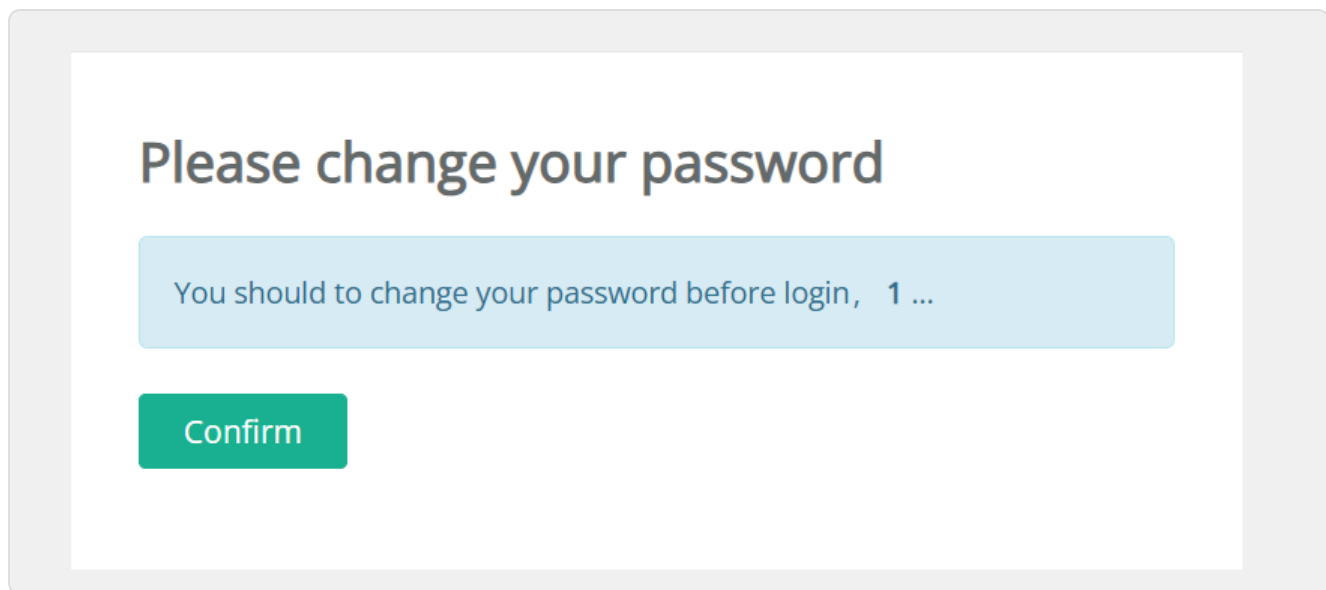
Save & Continue

## 7 TASK 7: Login using user1

Open new tab type <http://IP ADDRESS OF ROCKY LINUX>



You need to change the password of user1



Then try to login user1 after changing the password

Don't forget to click agree

JumpServer

Successfully updated !

Workbench Overview

Overview

MY ASSETS

- Access assets
- File transfer
- File explorer

Recent sessions

ID	Asset	Account	Remote address	Actions
No Data				

Your profile

Username: user1

Email: user1@gmail.com

Login date: 11/01/2024 11:04:49 PM

Recent login

Login city	Login date
LAN(192.168.108....	11/01/2024 11:04:49 PM

Go to Access assets TAB

Click the CLI icon

JumpServer

Workbench Access assets

Asset tree

- > Favorite (0)
- > DEFAULT (1)

Search

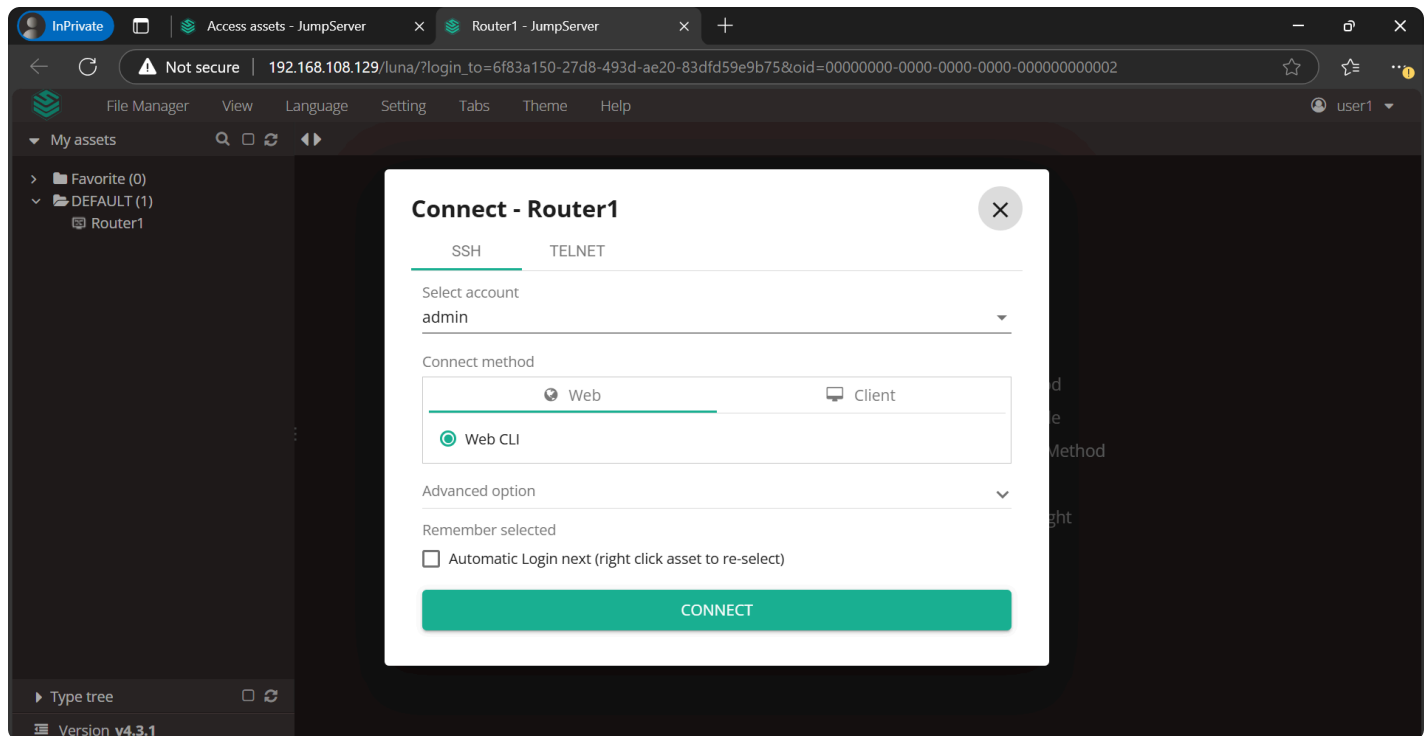
Name	Address	Platform	Connectivity	Accounts	Actions
Router1	192.168.108...	Cisco	OK	View	CLI

Total 1

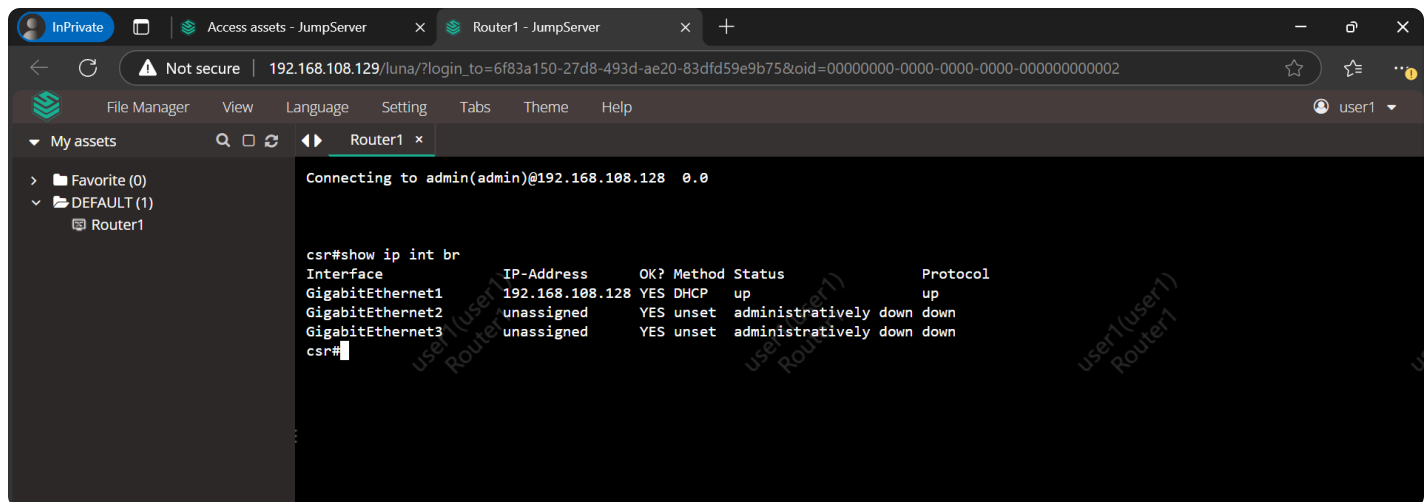
15/page

1

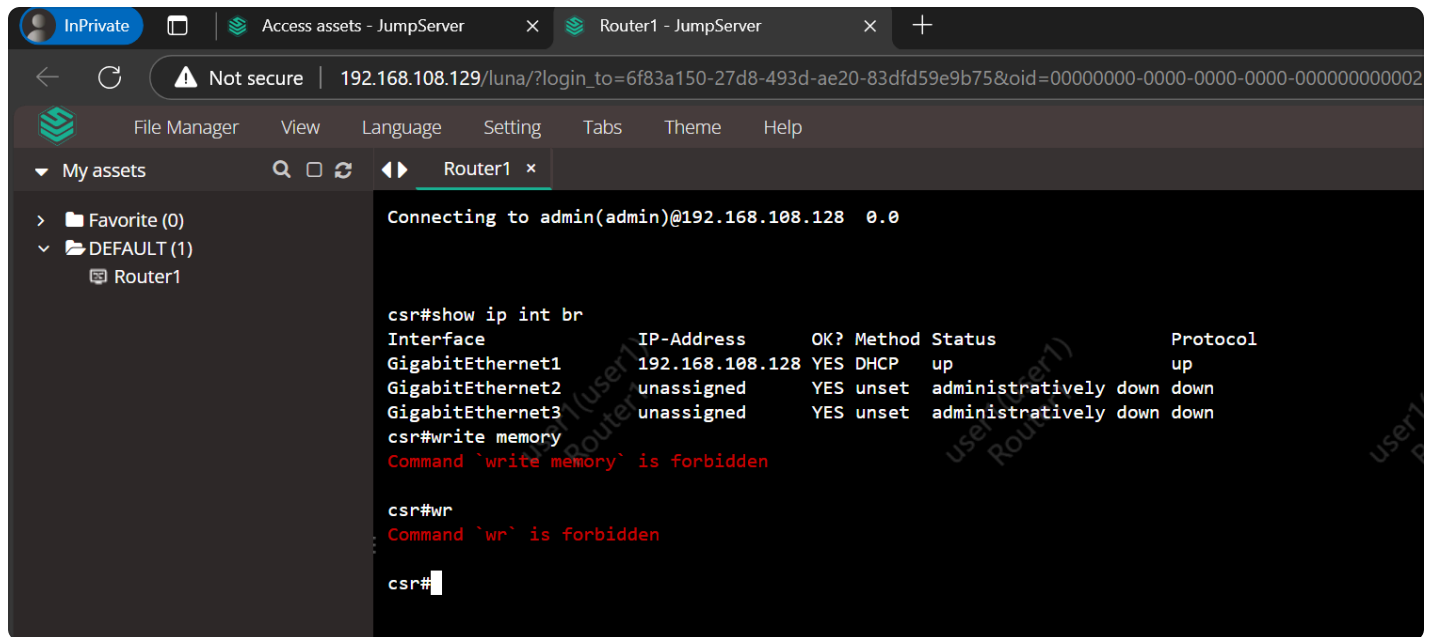
Click CONNECT



Now you can access the CLI of the Cisco router via SSH, but you cannot use the "write memory" command or "wr" due to the ACLs.

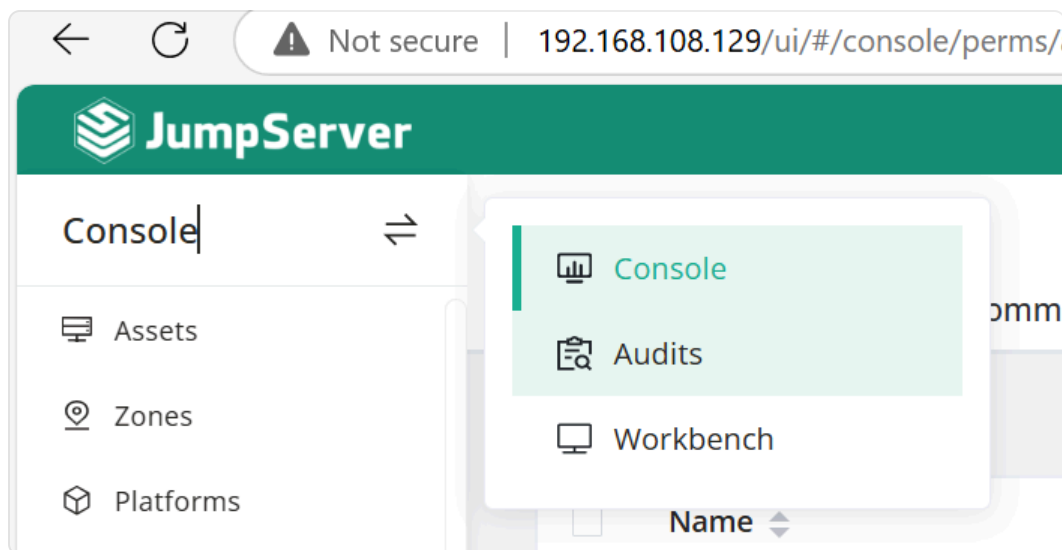






## 8 TASK 8: Go Back to Admin Access of Jumpserver check the audits and Monitoring

Change Console to Audits



Go to the assets section; you will see here when a user is using an asset and the specific user utilizing that asset.

Audits

Dashboard

SESSIONS

Asset sessions

Session commands

File transfer

Online devices

Asset sessions

Online sessions

Historical sessions

Search

2024-10-25 23:10:35 To 2024-11-02 23:59:59

	No.	User	Target	Account	Protocol	Date start	Actions
<input type="checkbox"/>	1	user1(user1)	Router1(192.168...	admin(admin)	ssh	11/01/2024 11:07:18 PM	<div>Terminate</div>
Total 1							<div>15/page</div> <div><div>&lt;</div><div>1</div><div>&gt;</div></div>

In the session command, you will see all the commands used by a specific user on a specific asset.

JumpServer

English

Administrator

Audits

Session commands

Asset tree

Command storages

default(server) (3)

Search

2024-10-25 23:12:29 To 2024-11-02 23:59:59

	Command	Risk level	User	Asset	Account	Session	Datetime
<input type="checkbox"/>	wr	Reject	user1...	Router...	admin(ad...	Goto	11/01/2024 11:08:5
<input type="checkbox"/>	write mem...	Reject	user1...	Router...	admin(ad...	Goto	11/01/2024 11:08:5
<input type="checkbox"/>	show ip in...	Accept	user1...	Router...	admin(ad...	Goto	11/01/2024 11:07:2
Total 3							<div>15/page</div> <div><div>&lt;</div><div>1</div><div>&gt;</div></div>