Add windows server for RDP via browser

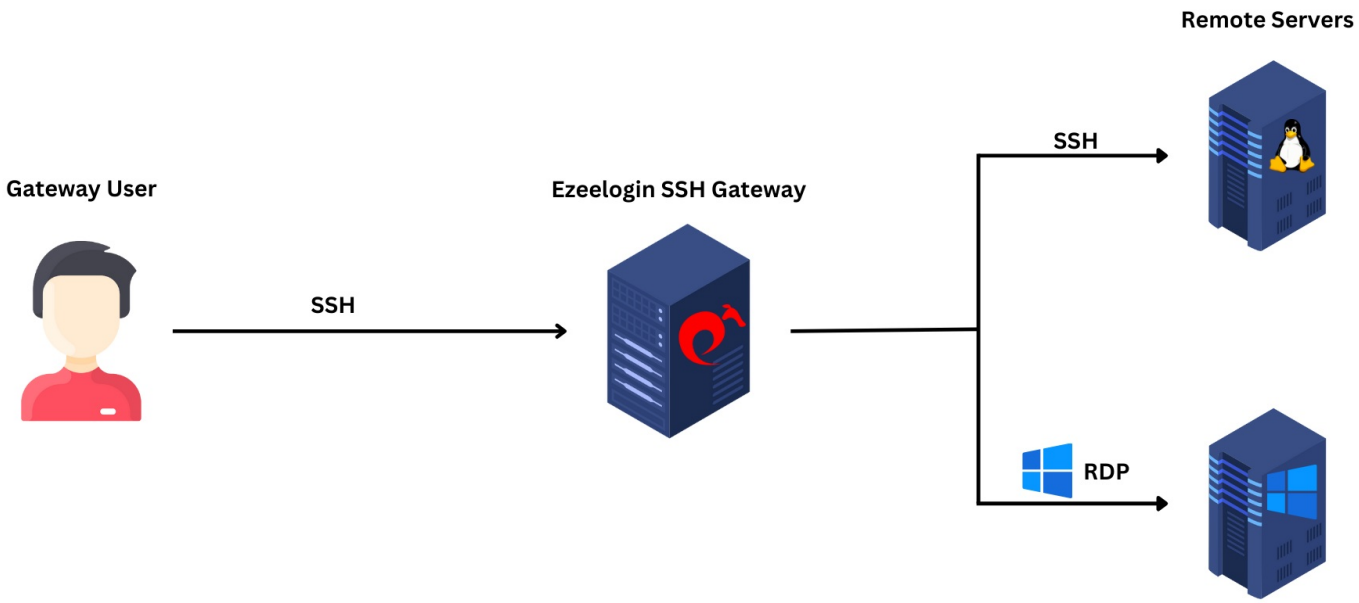
92 admin May 27, 2025 Features & Functionalities 48893

How to add Windows server for one-click RDP access via web browser in Ezeelogin?

Overview: This article provides step-by-step instructions on how to add a Windows server for one-click RDP access for gateway users via a web browser from gateway server.

Ensure that the desktop browser has enough CPU(2GHZ) and RAM(2- 4 GB). Close out browser tabs to reduce the CPU footprint so that the browser-based RDP works without slowness.

Web RDP will work only if the web interface is accessed via **HTTPS**.
RDP is still in **beta**. Some features like shared clipboard, audio redirection, etc. are not present.
NLA is currently supported, and if the user is **enabling it**, the **username and password should be saved** when adding the RDP server to Ezeelogin.
If the user is **not enabling NLA**, they can choose to **either save the username and password in Ezeelogin** or not, and **both options will work**.



1. On the gateway server install nodejs.

Step 1(A): On Centos 7

```
root@gateway:~# yum install epel-release

root@gateway:~# yum install npm
```

Step 1(B): On Ubuntu 16/18 and Debian 10

```
root@gateway:~# apt install npm
```

Step 1(C): On Ubuntu 20/22

```
root@gateway:~# apt-get update

root@gateway:~# apt install npm
```

2. Install n, Node's version manager:

Step 2(A): If you are not using SSL, you need to set the repo to HTTP by running :

```
root@gateway:~# npm config set registry  http://registry.npmjs.org/

root@gateway:~# npm install -g n
```

3. Install node:

Step 3(A): To install the latest version:

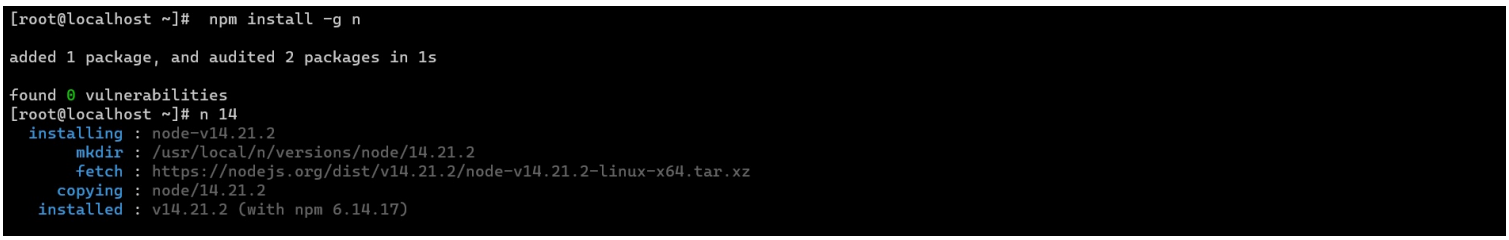
```
root@gateway:~# n latest
```

Step 3(B): To install the corresponding version :

```
root@gateway:~# n version.number
```

For example, the below command will install node 19

```
root@gateway:~# n 19
```

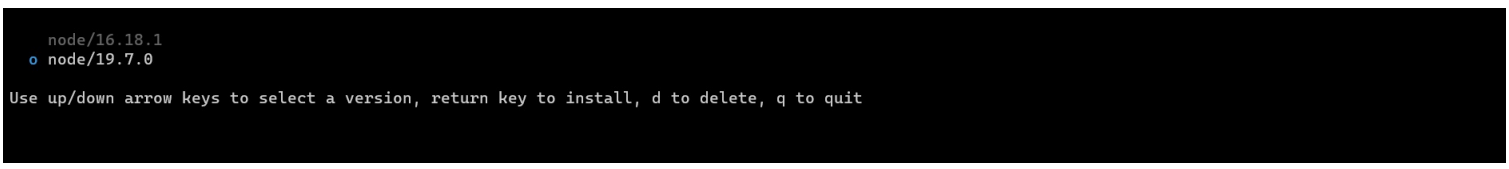


Step 3(C): Run the following command to install the node without SSL

```
root@gateway:~# n --insecure latest
```

Step 3(D): To switch between node versions run the following command and refer to the given screenshot.

```
root@gateway:~# n
```



> **Install node using NPM or NVM in Ezeelogin**

4. Install NodeJS module dependencies

Step 4(A): Install the **NodeJS module dependencies** for the Web RDP Console application by running the following command.

```
root@gateway:~# php /usr/local/ezlogin/eztool.php -- -install_node_modules -node_component webrdp
```

OR

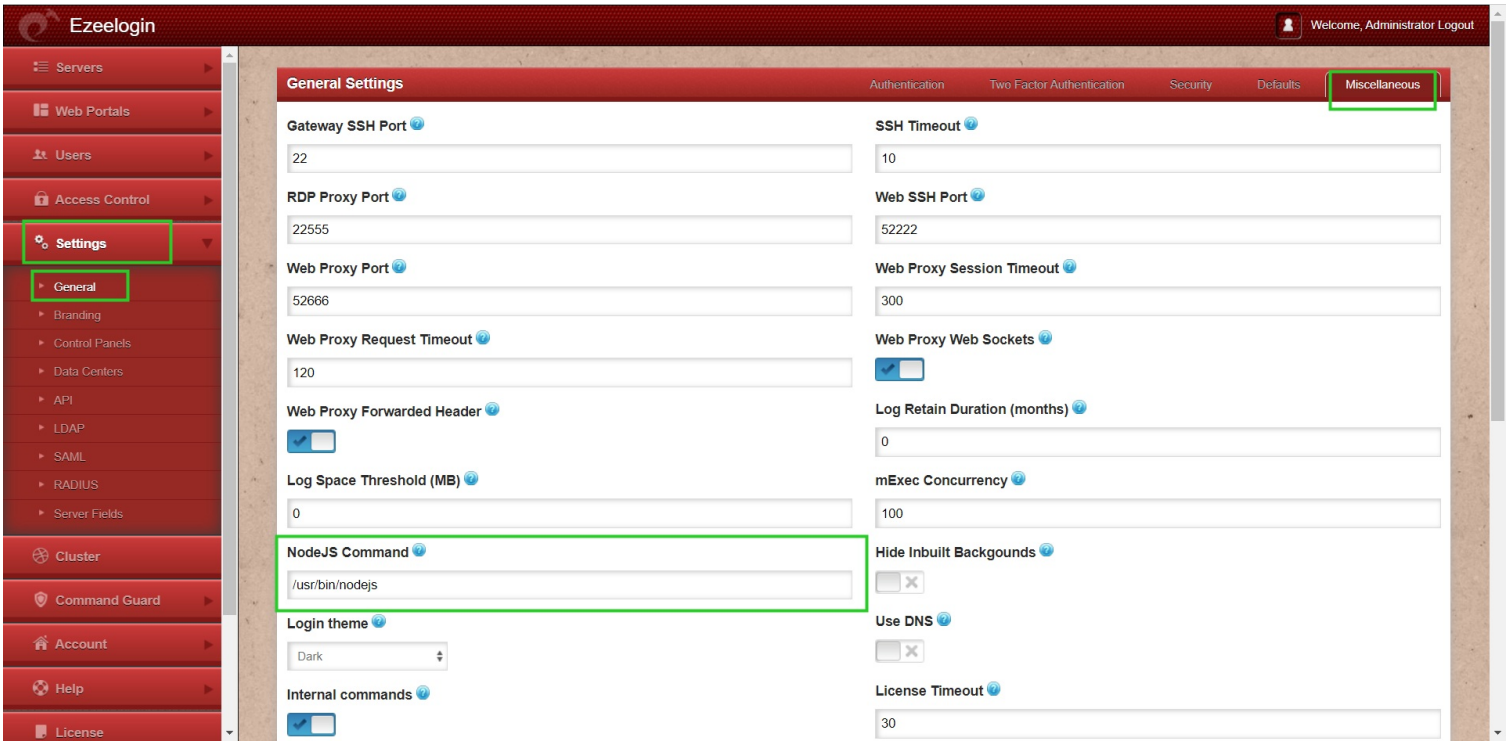
```
root@gateway:~# cd $(awk '/^system_folder/ {print $2}'
/usr/local/etc/ezlogin/ez.conf)/application/external/mstsc/&& npm install
```

5. Update Settings

Step 5(A): The nodejs command field should have the path to the **node** or **nodejs** binary which usually is **/usr/bin/node** in the case of **Centos7** and **/usr/bin/nodejs** in the case of **Ubuntu 14-04.** Run below commands to get the path to the node binary.

```
root@gateway:~# which node or which nodejs or whereis nodejs or whereis node
```

Step 5(B): Specify the path to the node binary correctly under **Settings** -> **General** -> **Miscellaneous** -> **Nodejs Command**.



Ensure that **inbound** TCP traffic on **port 22555** is open as nodejs server listens on this port. (you can confirm the port from **Ezeelogin GUI** > **Settings** > **General** > **Miscellaneous** > **RDP Proxy Port**)

Ensure that **outbound** TCP traffic on port **3389** is open as RDP listens on this port.

6. SSL for the browser.

Step 6(A): To ensure SSL for the browser tab that opens up for the web RDP, generate a **self-signed cert** with the following command. Web Shell will work only if the web interface is accessed via **HTTPS**

```
root@gateway:~# openssl req -new -days 365 -x509 -nodes -newkey rsa:2048 -out
/usr/local/etc/ezlogin/tls_cert.pem -keyout /usr/local/etc/ezlogin/tls_key.pem
```

Make sure to install SSL (self-signed or a valid cert)even if you have installed an SSL certificate on the Load balancer (ELB/ALB).

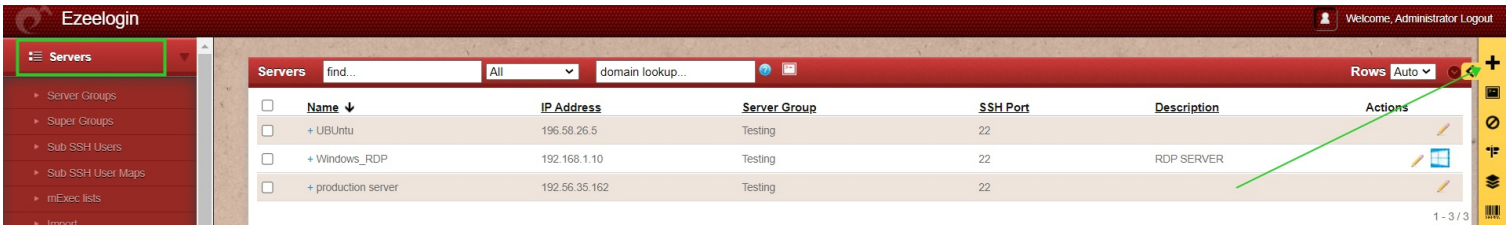
Also, make sure to add a listener and routing for the port RDP Proxy Port 22555

Step 6(B): Or put a valid ca, cert, and key in the files: **/usr/local/etc/ezlogin/tls_ca.pem**, **/usr/local/etc/ezlogin/tls_cert.pem** & **/usr/local/etc/ezlogin/tls_key.pem** respectively. You can rename your current **.crt** / **.key** file to **.pem** file.

> Also, make sure that the .pem files are readable by the webserver user such as nobody/www-root/apache, etc.
>
> An easy way to grant the web user read privileges would be chmod 644 /usr/local/etc/ezlogin/*.pem

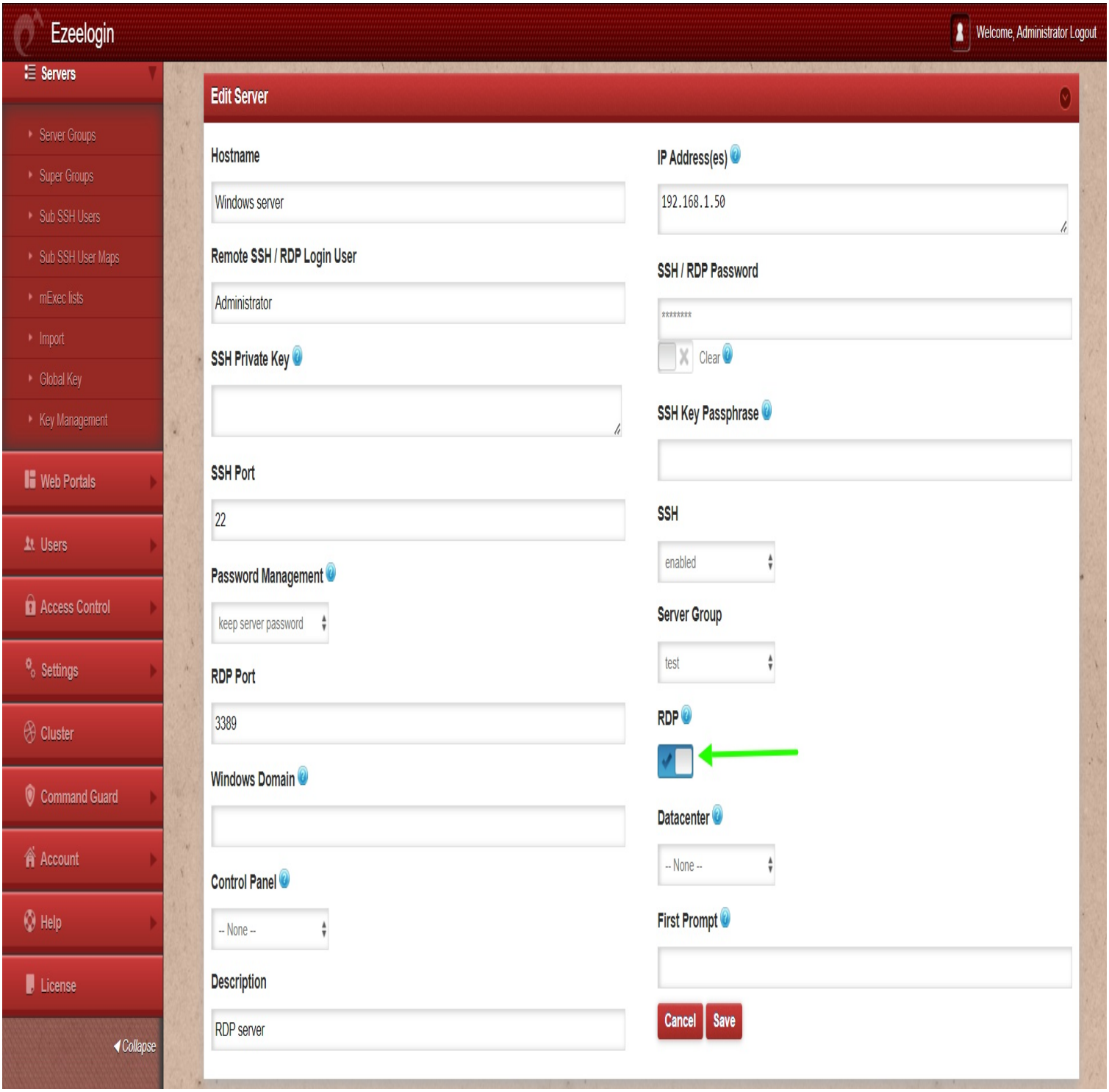
7. Add windows-server

Step 7(A): Add windows-servers by clicking the **add** button as shown below:



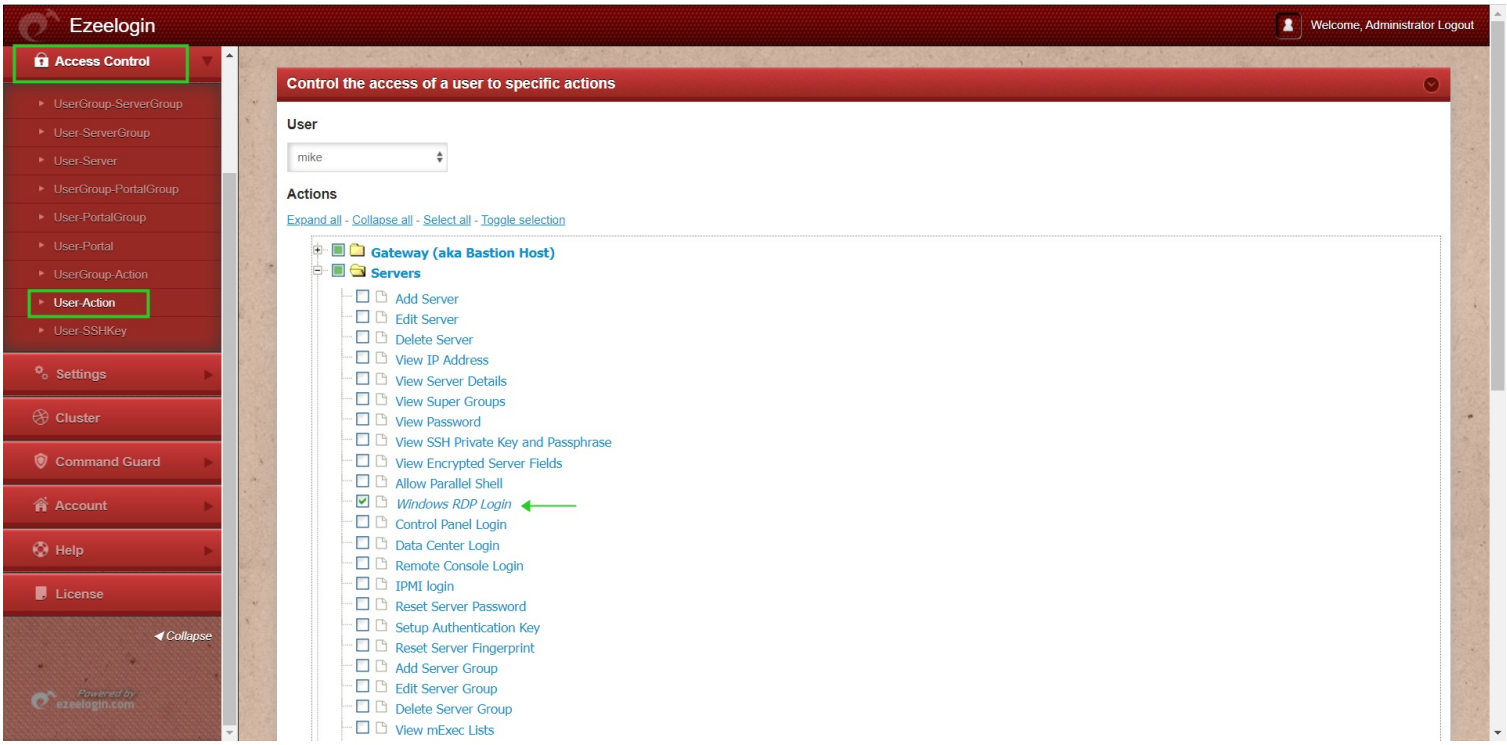
8. Enable RDP

Step 8(A): Ensure that you have provided the correct **username** and **password** while adding windows server, when **Network Level Authentication** (**NLA**) is enforced on the remote Windows machine. Also, make sure that while adding a windows server you have **enabled** the **RDP** and mentioned the default RDP **port number**(3389).



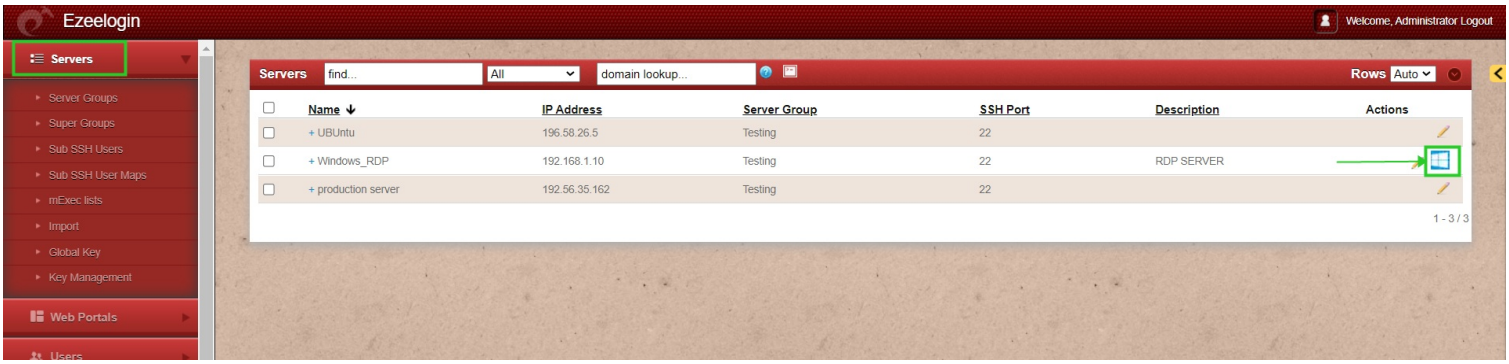
9. Granting access

Step 9(A): Make sure that the users have the privilege to access ' **Windows RDP Login** '



10. Access Windows server.

Step 10(A): Click on the **Windows icon** to RDP into the remote machine



Pros of browser-based RDP

Easily RDP via browser in one click
Don't have to remember the administrator passwords
No RDP client needed

Cons of browser-based RDP

Unable to copy and paste the document to the remote desktop.

If you are getting a protocol error, after upgrading the Node version you just need to add --tls-min-v1.0 to the nodejs command in **Settings** -> **General** -> **Miscellaneous** -> **Nodejs** Command.

> How to fix: “EPROTO” Error after upgrading Node’s version?

Troubleshooting Steps:

Step 1: Ensure that the Node version is above 19 and the NPM Version is >=6

```
root@gateway:~# npm -v

6.14.6

root@gateway:~# node -v
```

```
v19.0.0
```

Step 2: To get more detailed errors, append **log_level trace** in ez.conf.

> How to get detailed errors from Ezeelogin error logs?

Step 3: Kill the current running node

```
root@gateway:~# pkill node
```

Step 4: Run the below command to get the web RDP start command from the latest log file, and then append **DEBUG=*** at the beginning of the command you get:

```
root@gateway:~# ( cd $(awk '/^system_folder/ {print $2}' /usr/local/etc/ezlogin/ez.conf)/application/logs/ && less $(ls -t log-*.php | head -n 1) ) | grep -i 'RDP node: PORT'

DEBUG - 2025-05-27 14:40:47 --> start RDP node: PORT=22555 DBP='s}T@2Wrbu(33Ab@@*6Z.m9D@!7' /usr/local/bin/node /var/www/ezlogin/application/external/mstsc/server.js >/dev/null 2>&1 &, 0, Array
```

For example:

```
root@gateway:~# DEBUG=* PORT=22555 DBP='s}T@2Wrbu(33Ab@@*6Z.m9D@!7' /usr/local/bin/node  /var/www/ezlogin/application/external/mstsc/server.js
```

The **recording RDP session** feature is available from Ezeelogin version **7.10.0**

Related Articles:

How to fix RDP SSL error in Ezeelogin?

RDP Error: This computer can’t connect to the remote computer

Troubleshooting "Connection has been closed" Error in Ezeelogin RDP via Browser

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Record RDP sessions

Online URL: https://www.ezeelogin.com/kb/article/add-windows-server-for-rdp-via-browser-92.html