

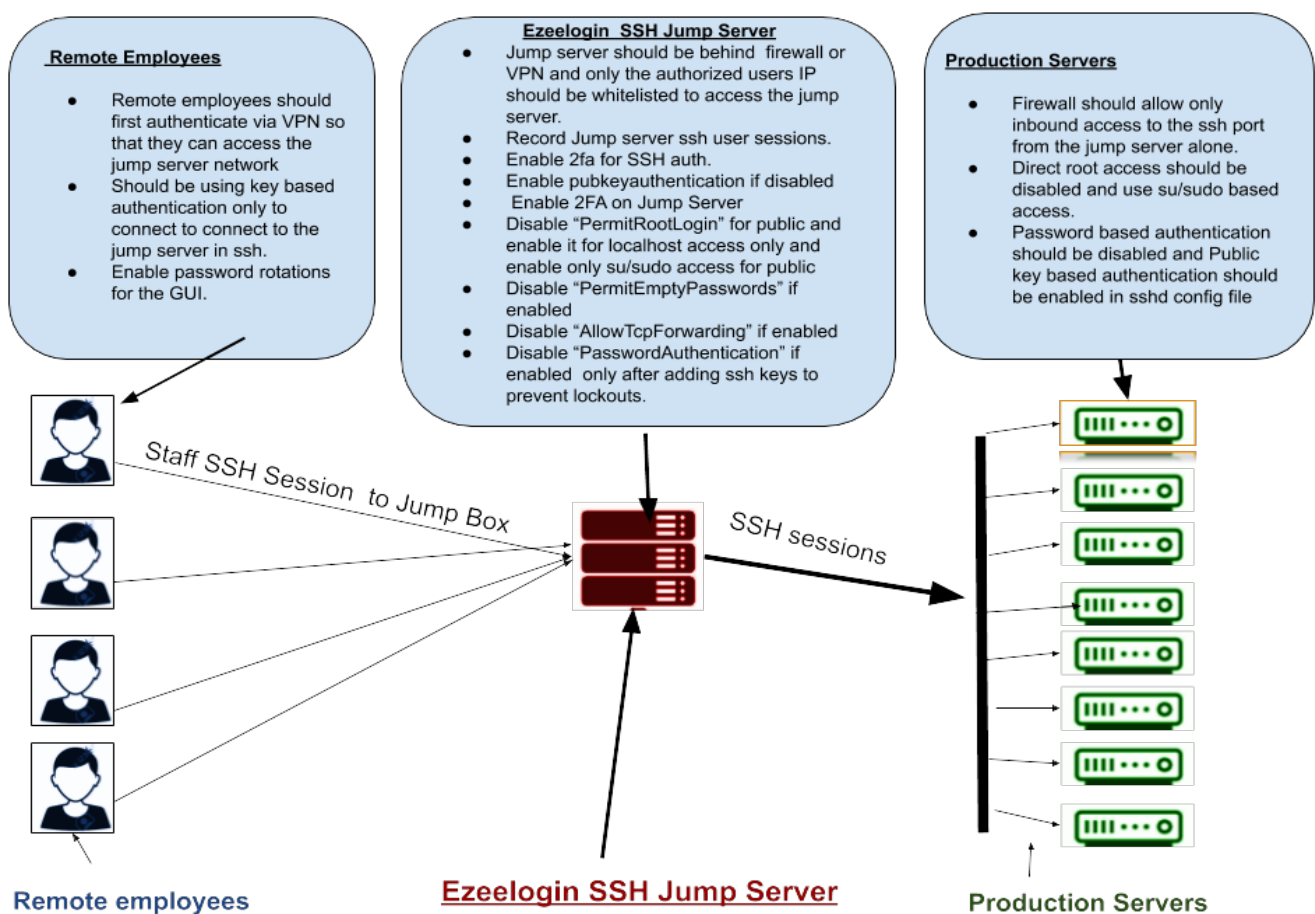
How to secure SSH jump server / SSH bastion host / SSH gateway

103 admin June 13, 2023 [Installation](#) 15758

What is an [SSH Bastion Host](#)?

An [SSH Bastion host](#) is simply a single, hardened server that you “jump” through in order to access other servers or devices on the inner network. it’s simply a server that all of your users can log into and use as a relay server to connect to other Linux servers, Routers, Switches, and more. Find more about the [ssh bastion host](#).

Security measures to harden Ezeelogin Linux SSH Jump server



- **Two-factor authentication** - [Enforce 2-factor authentication](#) like [Google 2FA](#) Auth or [Yubikey 2FA](#) or [DUO Security](#) so that both the Ezeelogin web GUI and ssh interface have an additional layer of protection.
- **SSL For HTTPS** - Enable SSL and access your web GUI using HTTPS only. You would need to install your SSL certificate for the GUI and then enable SSL mode in Ezeelogin settings. Once the SSL certificates are installed, refer [How to enable or force SSL or disable SSL](#)
- **Enable Captcha** - [Enable reCaptcha](#) for the web GUI in the Ezeelogin settings
- **Hardening SSH Server Daemon configuration file.**

Disable password authentication, Disable AllowTCPForwarding, and Disable Password Authentication as Public key-based authentication is recommended



```
PermitRootLogin no
```

```
#SSHD localhost settings. ( Note the rules under the following section will  
apply only to localhost ( 127.0.0.1) )
```

```
PermitRootLogin yes
```

```
PubkeyAuthentication yes
```

```
PasswordAuthentication yes
```

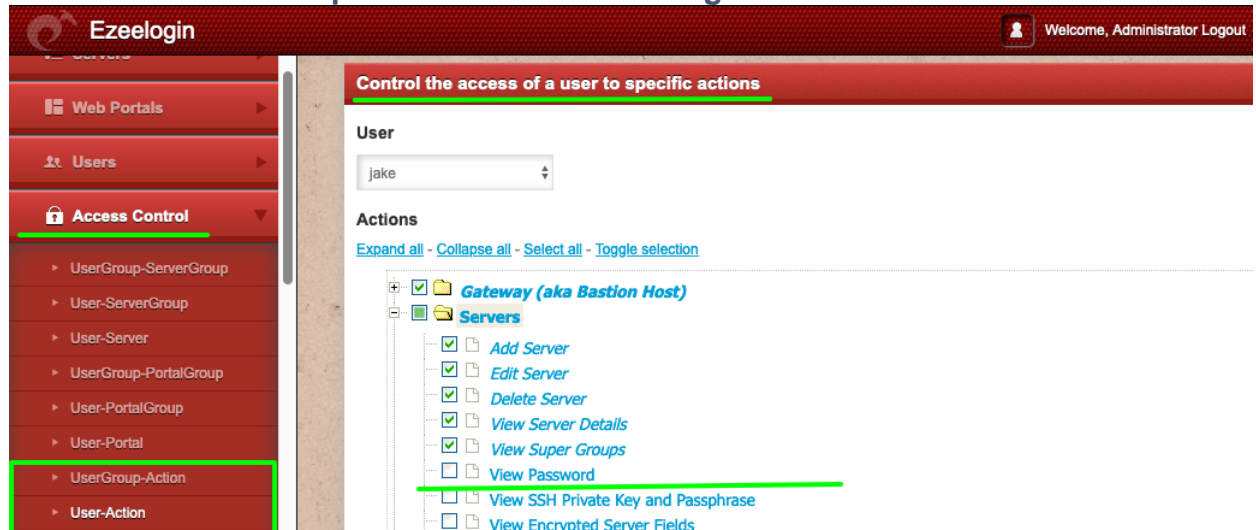
```
#Do a syntax check of sshd configuration file as shown  
below
```

```
root@jump:~ sshd -T
```

```
# restart sshd daemon
```

```
root@jump:# service sshd restart
```

Disallow view server password field in Ezeelogin GUI.



- **Enable Firewall and Lockdown access** - Always, restrict the ips from which staffs are allowed to ssh from. You should be allowing only your ips, employees ips and the default rule should block ssh for everyone and should be granted explicitly. You can achieve this using iptables or setting up rules in host.allow/hosts.deny files.

[Refer article to grant SSH access only from the gateway IP to the remote server](#)

- **SSH Gateway behind VPN is Very Good** - Having the SSH Jump server behind a VPN is very good as it prevents unauthorized traffic. This is highly recommended.

Related Articles

- [Grant SSH access only from an IP to a server](#)
- [Setup and configure Jump Server](#)

Online URL:

<https://www.ezeelogin.com/kb/article/how-to-secure-ssh-jump-server-ssh-bastion-host-ssh-gateway-103.html>