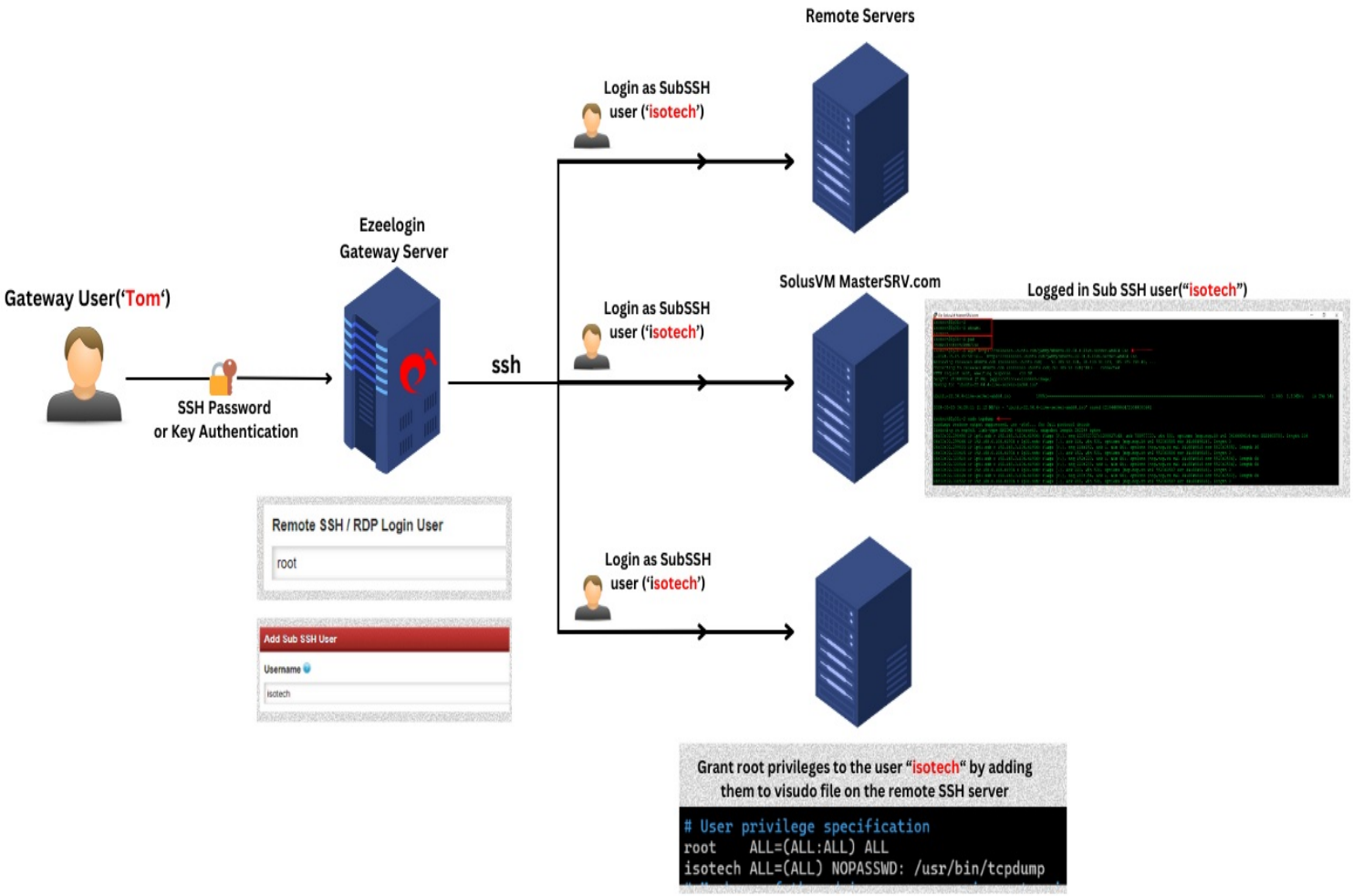
How to add sub ssh users on remote servers and restrict commands via sudoers file

716 Rakhi October 8, 2025 Features & Functionalities 5843

How to create sub SSH users on remote servers and restrict commands via sudoers file?

Overview: This article describes how to create a sub ssh user ("isotech") on a remote server (configured with root as the Remote SSH Login user), limit the actions to running the commands tcpdump and to download files to the dir /home/solusvm/kvm/iso) using wget.



Step 1.a: Create Managed **SubSSH user** 'isotech'.

Increase the PHP maximum execution time in seconds on the Gateway server. This directive max_execution_time would specifiy the maximum time in seconds that a PHP script is allowed to run before it's terminated.

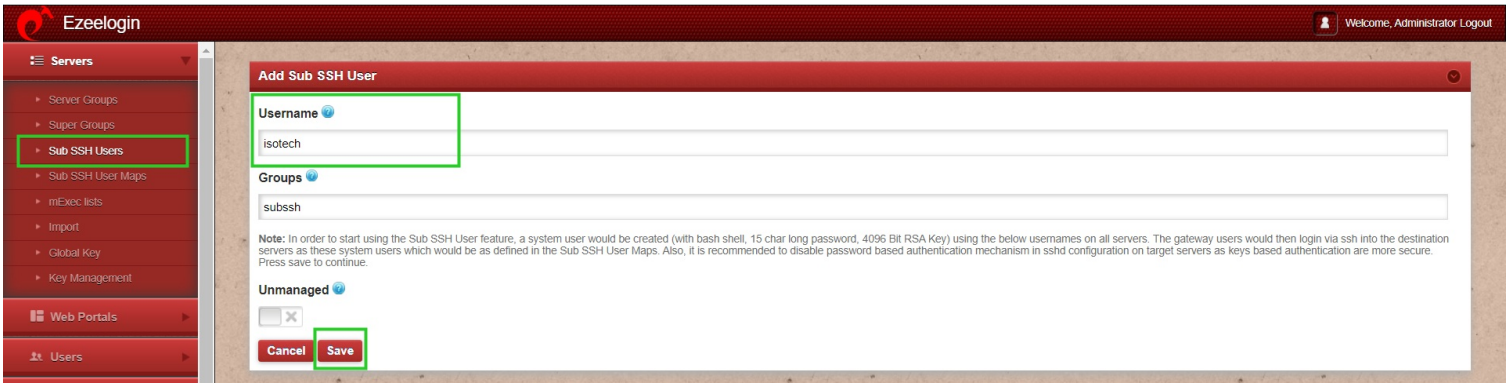
```
root@gateway ~# read -p "Enter new maximum execution time (e.g., 900): " time && sudo sed -i "s/^max_execution_time =.*/max_execution_time = $time/I" /etc/php/$(php -v | head -n 1 | awk '{print $2}' | cut -d. -f1,2)/cli/php.ini

root@gateway~# read -p "Enter new memory limit (e.g., 2G): " memory && sudo sed -i "s/^memory_limit =.*/memory_limit = $memory/I" /etc/php/$(php -v | head -n 1 | awk '{print $2}' | cut -d. -f1,2)/cli/php.ini

root@gateway~# systemctl restart apache2
```

Step 1.b: Under **SubSSH** user > specify the **username** and **Save** it.

This will create the user “isotech” on all remote servers. (n number of servers)



Step 2.a: Run the following commands via **parallel shell** to run in the sudoers file.

```
root@gateway~# echo "isotech ALL=(ALL) NOPASSWD: /usr/bin/tcpdump" >> /etc/sudoers
```

```
[group:SolusVM Masters GRP]# echo "isotech ALL=(ALL) NOPASSWD: /usr/bin/tcpdump" >> /etc/sudoers

web.eznoc.1001

web.eznoc.1004

web.eznoc.1002

web.eznoc.1003

SolusVM MasterSRV.com

Successfully executed on all 5 device(s).

[group:SolusVM Masters GRP]#
```

Step 2.b: Check the syntax of sudoers file on remote servers.

```
root@gateway~# visudo –c
```

```
[group:SolusVM Masters GRP]# sudo visudo -c

web.eznoc.1001

/etc/sudoers: parsed OK
/etc/sudoers.d/README: parsed OK

web.eznoc.1004

/etc/sudoers: parsed OK
/etc/sudoers.d/README: parsed OK

web.eznoc.1002

/etc/sudoers: parsed OK
/etc/sudoers.d/README: parsed OK
/etc/sudoers.d/user_management: parsed OK

web.eznoc.1003

/etc/sudoers: parsed OK
/etc/sudoers.d/README: parsed OK

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/etc/sudoers: parsed OK
/etc/sudoers.d/README: parsed OK
/etc/sudoers.d/user_management: parsed OK

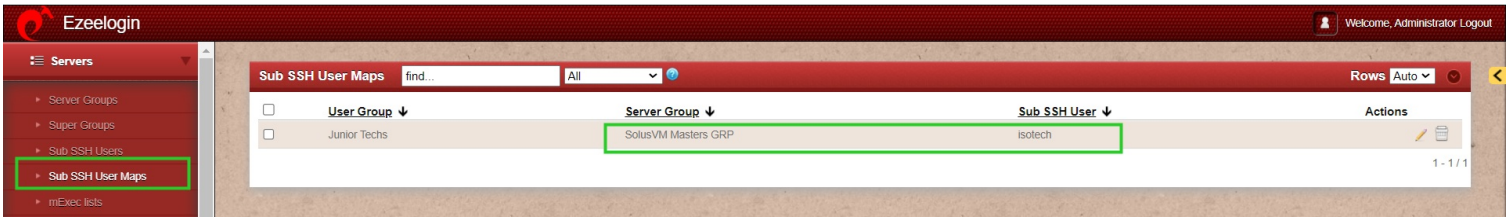
Successfully executed on all 5 device(s).

[group:SolusVM Masters GRP]#
```

Step 3 : Login to the SolosVM Masters server. Change the user home directory and grant permissions to the directory as shown below.

```
root@gateway~# usermod -d /home/isotech/kvm/iso isotech ; chmod 777 /home/isotech/kvm/iso
```

Step 4 : Map the sub ssh user ”isotech” to ”SolosVM Masters GRP” server group and ”Junior Techs” UserGroup. This will ensure that the gateway users belonging to ”Junior Techs” would login to ”SolosVM Master server” as the non-privileged user ”isotech”.



Step 5 : Login to ezsh shell as ssh gateway user “tom” (“junior tech”) and login to a remote server (“SolusVM MastersRSV.com”) and run “tcpdump” / “wget" command to download the files.

```
Ez SolusVM MasterSRV.com
isotech@lp01:~$
isotech@lp01:~$ whoami
isotech
isotech@lp01:~$ pwd
/home/isotech/kvm/iso
isotech@lp01:~$ wget https://releases.ubuntu.com/jammy/ubuntu-22.04.4-live-server-amd64.iso
--2024-05-15 05:58:16--  https://releases.ubuntu.com/jammy/ubuntu-22.04.4-live-server-amd64.iso
Resolving releases.ubuntu.com (releases.ubuntu.com)... 91.189.91.124, 91.189.91.123, 185.125.190.40, ...
Connecting to releases.ubuntu.com (releases.ubuntu.com)|91.189.91.124|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2104408064 (2.0G) [application/x-iso9660-image]
Saving to: 'ubuntu-22.04.4-live-server-amd64.iso'

ubuntu-22.04.4-live-server-amd64.iso           100%[=========================================================================================>]   1.96G  1.13MB/s    in 29m 54s

2024-05-15 06:28:11 (1.12 MB/s) - 'ubuntu-22.04.4-live-server-amd64.iso' saved [2104408064/2104408064]

isotech@lp01:~$ sudo tcpdump
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on enp0s3, link-type EN10MB (Ethernet), snapshot length 262144 bytes
06:30:02.298498 IP lp01.ssh > 192.168.0.106.41936: Flags [P.], seq 1208827027:1208827143, ack 755977720, win 501, options [nop,nop,TS val 3416649614 ecr 552360375], length 116
06:30:02.299166 IP 192.168.0.106.41936 > lp01.ssh: Flags [.], ack 116, win 501, options [nop,nop,TS val 552360585 ecr 3416649614], length 0
06:30:02.299803 IP lp01.ssh > 192.168.0.106.41936: Flags [P.], seq 116:152, ack 1, win 501, options [nop,nop,TS val 3416649615 ecr 552360585], length 36
06:30:02.300415 IP 192.168.0.106.41936 > lp01.ssh: Flags [.], ack 152, win 501, options [nop,nop,TS val 552360586 ecr 3416649615], length 0
06:30:02.300518 IP lp01.ssh > 192.168.0.106.41936: Flags [P.], seq 152:220, ack 1, win 501, options [nop,nop,TS val 3416649616 ecr 552360586], length 68
06:30:02.300816 IP lp01.ssh > 192.168.0.106.41936: Flags [P.], seq 220:288, ack 1, win 501, options [nop,nop,TS val 3416649616 ecr 552360586], length 68
06:30:02.301030 IP 192.168.0.106.41936 > lp01.ssh: Flags [.], ack 220, win 501, options [nop,nop,TS val 552360587 ecr 3416649616], length 0
06:30:02.301124 IP lp01.ssh > 192.168.0.106.41936: Flags [P.], seq 288:356, ack 1, win 501, options [nop,nop,TS val 3416649616 ecr 552360587], length 68
06:30:02.301502 IP 192.168.0.106.41936 > lp01.ssh: Flags [.], ack 288, win 501, options [nop,nop,TS val 552360587 ecr 3416649616], length 0
06:30:02.301599 IP lp01.ssh > 192.168.0.106.41936: Flags [P.], seq 356:392, ack 1, win 501, options [nop,nop,TS val 3416649617 ecr 552360587], length 36
```

Creation of Subssh user fails

If the Ezeelogin gateway server has more remote servers, it will take more time to create the subssh user in all the servers. Refer below article to increase the execution time of the script in the gateway server.

Increase script execution time in the gateway server

Related Articles:

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Online URL: https://www.ezeelogin.com/kb/article/how-to-add-sub-ssh-users-on-remote-servers-and-restrict-commands-via-sudoers-file-716.html