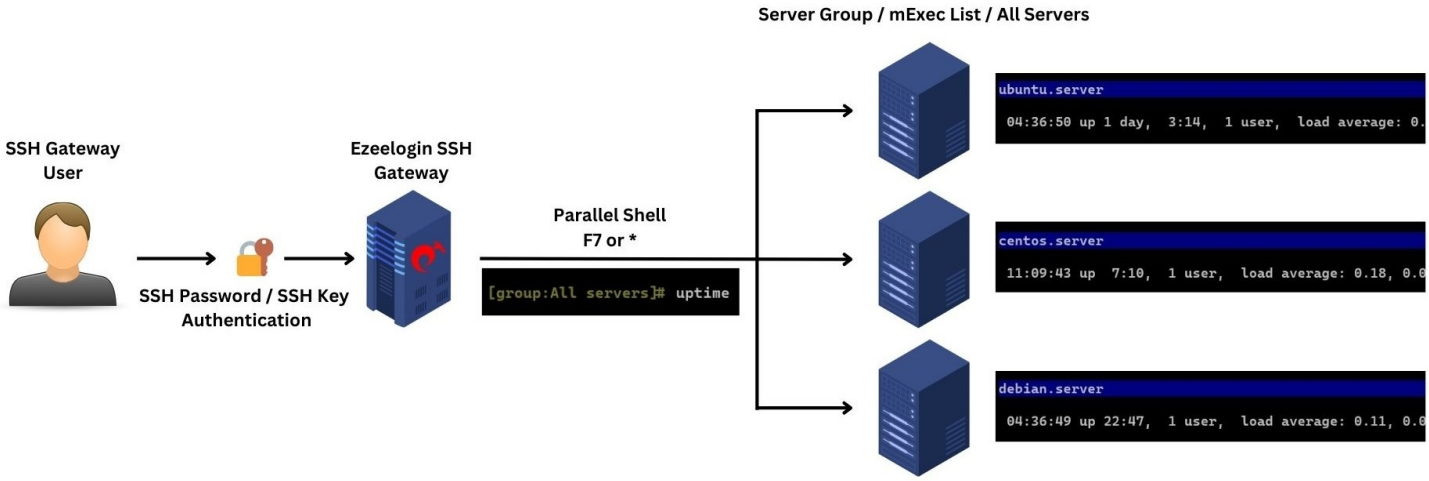
Parallel Shell - How to use it?

160 admin October 5, 2024 Productivity & Efficiency Features 14163

How to use Parallel Shell feature?

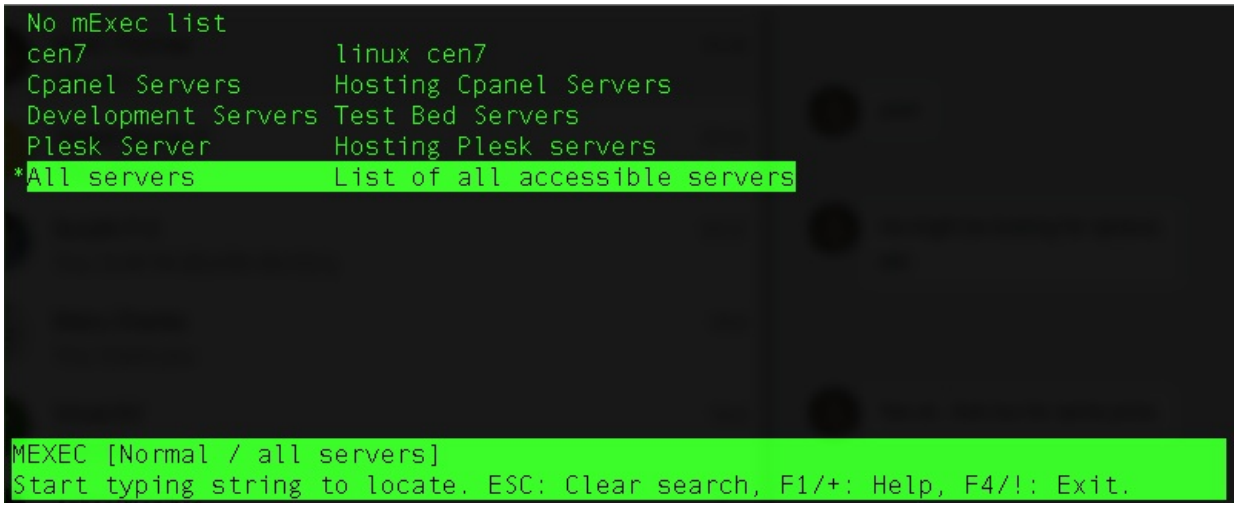
Overview: This article explains how to use parallel shell on the gateway server to execute commands simultaneously on multiple servers. It also covers features like MExec lists and command execution summaries, including exit status explanations.

Parallel shell allows the gateway users to execute commands on multiple servers simultaneously. Users can execute commands on various server groups they have access to or create custom groups of servers (mExec lists) where they want to execute commands.

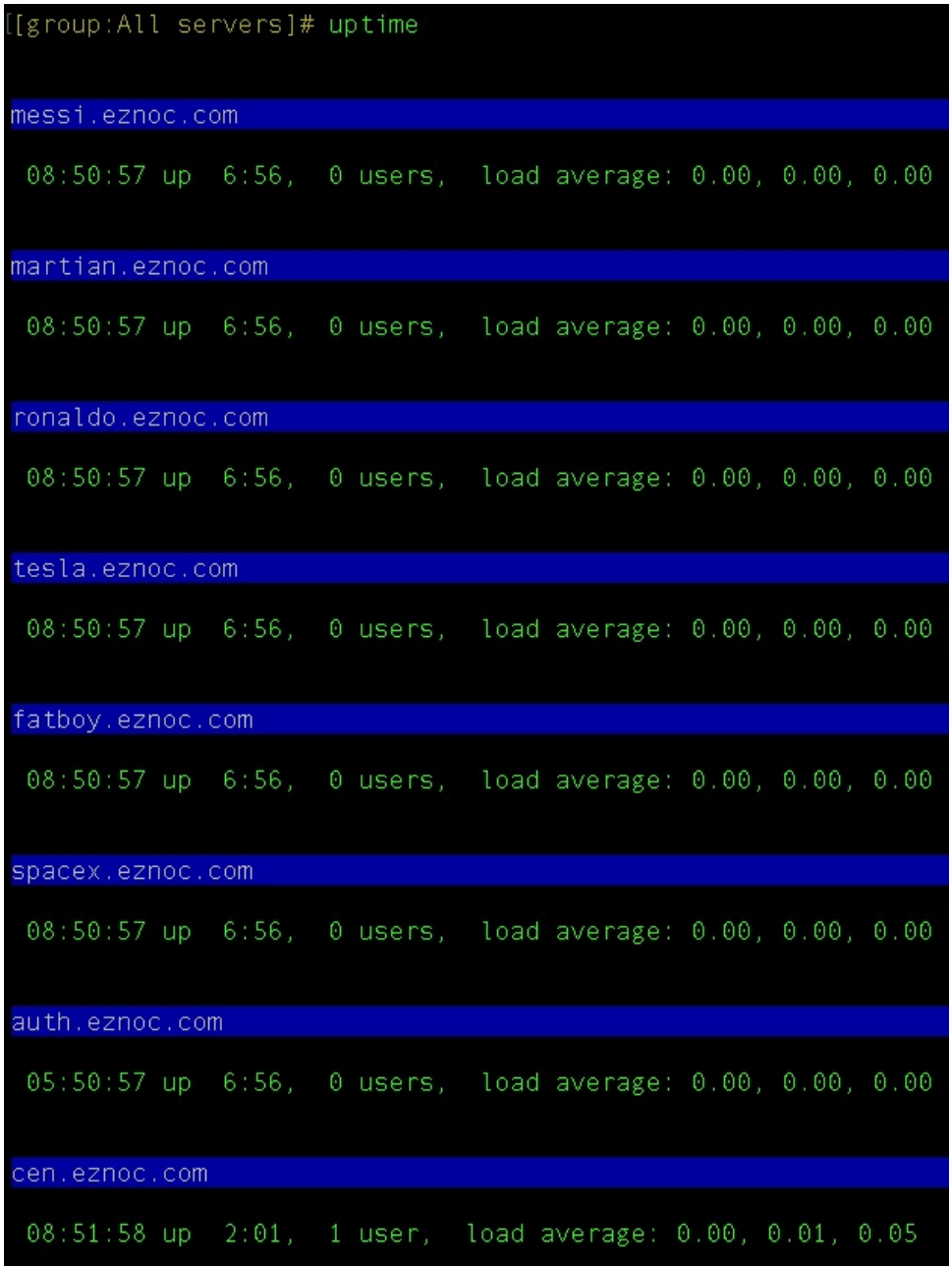


Ensure that the SSH gateway user has been **granted the privilege** to use a parallel shell. By default, it's only available for the admin user and this privilege has to be granted explicitly to other users.

Step 1: To access the Parallel Shell, log on to the Ezeelogin backend, and click on the shortcut which is usually **f7** or ***** (Help Menu in the ezsh shell). Once you have the Mexec group listing, navigate to the group of servers where you would like to execute the command. In the example below, the 'All Servers' group has been selected.



Step 2: Press the enter key on the keyboard type the command uptime and press enter again to execute the command on the server group '**All servers**'.



> Refer to the following: Mexec List Feature.

The MExec lists created would be viewable to other users only if the creator of the list decides to set it as public. If it is not set as public then the users will only be able to view normal server groups.

How to view the summary in a parallel shell?

Step 1: Command successfully executed on all servers:

```
[group:All servers]# uptime

ubuntu.server
 04:36:50 up 1 day,  3:14,  1 user,  load average: 0.00, 0.00, 0.00

centos.server
 11:09:43 up  7:10,  1 user,  load average: 0.18, 0.06, 0.02

debian.server
 04:36:49 up 22:47,  1 user,  load average: 0.11, 0.07, 0.01

Successfully executed on all device(s).

[group:All servers]#
```

Step 2: Command failed to execute on some servers, and the summary of the failed servers will be shown:

```
[group:All servers]# uptime

debian.server
 04:45:14 up 22:55,  1 user,  load average: 0.03, 0.03, 0.00

ubuntu.server
 04:45:15 up 1 day,  3:22,  1 user,  load average: 0.08, 0.02, 0.01

centos.server
Cannot establish SSH session

Following 1 device(s) have failed:
 centos.server: Cannot establish SSH session


[group:All servers]#
```

Step 3: Remote exited with non-zero status explained.

```
Following 1 device(s) have failed:

 server: Remote exited with non-zero status: 1
```

exit 1: General failure
exit 2: Misuse of shell builtins (e.g., incorrect syntax)
exit 126: Command not executable
exit 127: Command not found
exit 128: Invalid argument to exit

The view summary feature is available from **Ezeelogin version 7.33.0**. Refer below article to **upgrade to the latest version**.

Related Articles:

Grant parallel shell privilege to the user.

Increase the execution speed in a parallel shell.

Online URL: https://www.ezeelogin.com/kb/article/parallel-shell-how-to-use-it-160.html