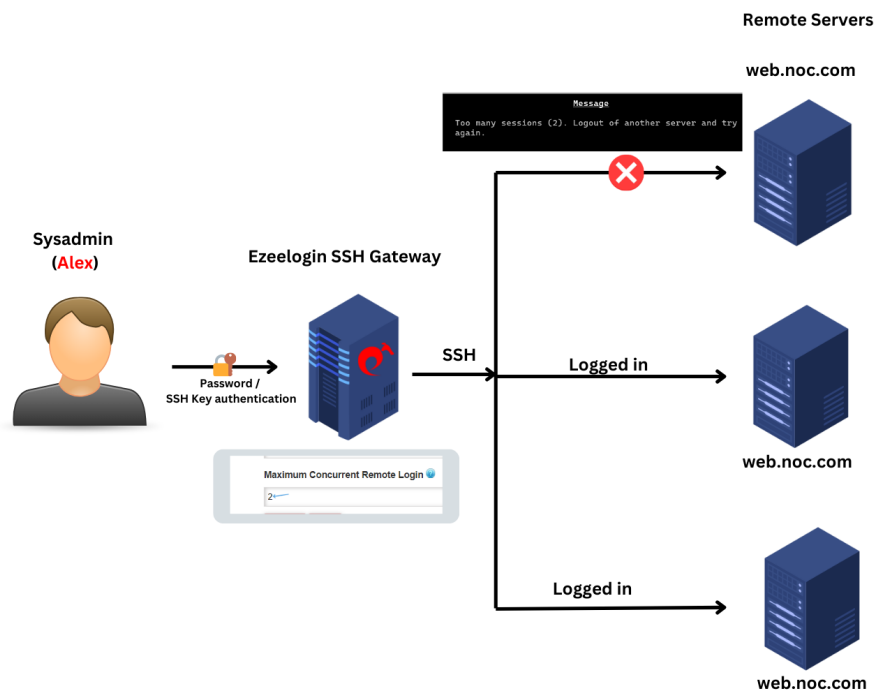


Manage concurrent SSH connections

729 Santhi August 8, 2024 [Features & Functionalities](#) 1055

How to limit max SSH sessions to remote Linux devices?

Limiting the maximum concurrent SSH sessions to remote Linux devices is essential for maintaining server security and preventing unauthorized access. "**Maximum concurrent remote login(MCRL)**" feature helps the system administrators to control the concurrent SSH sessions that a user can establish on the remote Linux devices and prevent potential performance bottlenecks.



For example, if the MCRL is set to 2, the user can have only 2 active ssh sessions to the remote servers.

Here is the steps to set maximum concurrent remote login (MCRL) in Ezeelogin.

Step 1: Set the '**Maximum Concurrent Remote Login (MCRL)**' globally from the GUI located within the 'Security' tab under general settings".

Ezeelogin Welcome, Administrator Logout

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 Control Panels
 Data Centers
 API
 LDAP
 SAML
 FIDO2
 RADIUS
 SIEM
 Server Fields
Cluster
Command Guard
Account
Help
License

General Settings
Authentication Two Factor Authentication **Security** Defaults Miscellaneous

RDP Recording

Proxy Allow All

Four Eyes Authorization

Consider Server Activity

Web Logout Shell

Shell Activity Timeout

Passthrough Environment Variables

Remote Access Reason

Log Commands in Syslog

Encrypt SSH Session Logs

Web Proxy Logging

Tunnel Allow All

Hide Server Details

Recursive Delete Protection

Failed Login Notifications

Change Notifications

Detailed Audit Logs

Remote Login Throttle Delay

Maximum Concurrent Remote Login ←

Cancel Save

Step 2: To configure **MCRL for the individual user 'Alex'**, proceed with **step 2.a**, or alternatively, proceed directly to **step 2.b** to configure **RLTD for the user group 'Sysadmin'**."

Step 2.a: How to set **Maximum Concurrent Remote Login for a specific user?**

Enable **'Limit Concurrent Remote Login'** for the user **'Alex'** using the **'user-action'** option available under **'Access Control'**.

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User-ServerGroup
User-Server
UserGroup-PortalGroup
User-PortalGroup
User-Portal
UserGroup-Action
User Action
User-SSHKey
Settings
Cluster
Command Guard
Account
Help
License

Control the access of a user to specific actions

User
alex

Actions
Expand all - Collapse all - Select all - Toggle selection

- Gateway (aka Bastion Host)
 - Servers
 - Add Server
 - Edit Server
 - Delete Server
 - View IP Address
 - View Server Details
 - View Super Groups
 - View Password
 - Add Private Key
 - Edit Private Key
 - Delete Private Key
 - SSH Tunnel
 - Web SSH Console
 - Web File Transfer
 - View Credential History
 - Throttle Remote Logins
 - Limit Concurrent Remote Logins**
- Users
- Access Controls
- Settings
- Command Guard Manager
- Help
- Cluster
- Web Portals

Authorization Password

Cancel Save

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Step 2.b: How to set **Maximum Concurrent Remote Login** for a the user group **'Sysadmins'**?

Enable **'Limit Concurrent Remote Login'** for the user group **'Sysadmins'** using the **'usergroup-action'** option available under **'Access Control'**.

Ezeelogin Welcome, Administrator Logout

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User-PortalGroup
User-Portal
UserGroup-Action
User-Action
User-SSHKey
Settings
Cluster
Command Guard
Account
Help
License

Control the access of a user group to specific actions

User Group
Sysadmins

Actions
Expand all - Collapse all - Select all - Toggle selection

- Gateway (aka Bastion Host)
 - Servers
 - Add Server
 - Edit Server
 - Delete Server
 - View IP Address
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 - Add Private Key
 - Edit Private Key
 - Delete Private Key
 - SSH Tunnel
 - Web SSH Console
 - Web File Transfer
 - View Credential History
 - Throttle Remote Logins
 - Limit Concurrent Remote Logins**
- Users
- Access Controls
- Settings
- Command Guard Manager
- Help
- Cluster
- Web Portals

Authorization Password

Cancel Save

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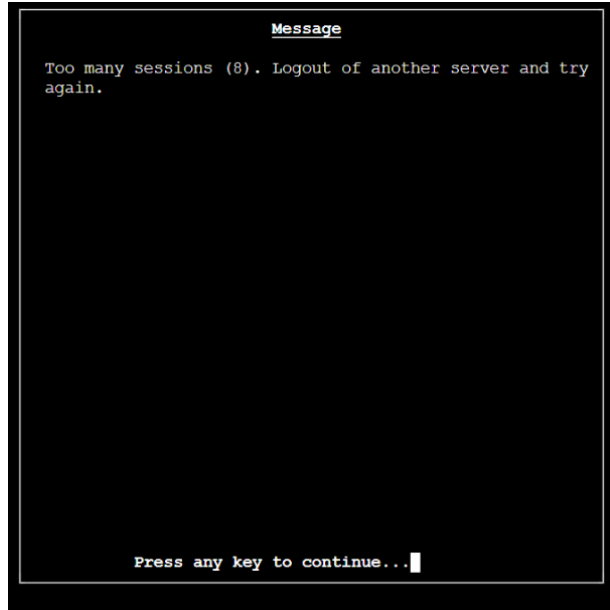
In this scenario, the maximum concurrent remote login is configured to 2. If the user '**Alex**' attempts to initiate more than 2 concurrent SSH sessions, they will encounter a prompt displaying "*Too many sessions (2). Logout of another server and try again,*" effectively restricting additional SSH connections. This method demonstrates how Ezeelogin gateway enforces limitations on maximum SSH connections.

The screenshot shows a terminal window with three tabs: 'Ez: web1.noc.com', 'Ez: web1.noc.com', and 'Ez: Servers'. The active tab is 'Ez: Servers', which displays a message box with the following text: 'Message', 'Too many sessions (2). Logout of another server and try again.', and 'Press any key to continue...'. The terminal prompt at the bottom is 'SERVERS [All servers] (group) [Normal /] {User: Alex} █', with a green arrow pointing to the user name 'Alex'. Below the prompt, it says 'Start typing name to locate. ESC: Clear search, F1/+: Help, F4/!: Exit.'

In Conclusion, limiting the maximum concurrent SSH sessions offers several advantages. Firstly, it enhances security by reducing the attack surface and mitigating the risks of unauthorized access attempts. Secondly, it optimizes server performance by ensuring resources are efficiently allocated,

preventing overload situations. Additionally, it facilitates easier monitoring and management of SSH sessions, enhancing overall system stability and operational efficiency.

Error: After enabling MCRL, if you come across an error with too many logged-in sessions



even though you have no active sessions currently.

Refer to this article for resolution: [Showing Stale Connections](#).

Note:

1. This feature is available from **Ezeelogin version 7.38.0**. To update your existing Ezeelogin to the latest version, refer to the [article](#).
2. Superadmin user (user created at the time of Ezeelogin installation) is not affected by RLTD and MCRL.

Related Article

[How to set throttle delay in SSH?](#)

Online URL: <https://www.ezeelogin.com/kb/article/manage-concurrent-ssh-connections-729.html>