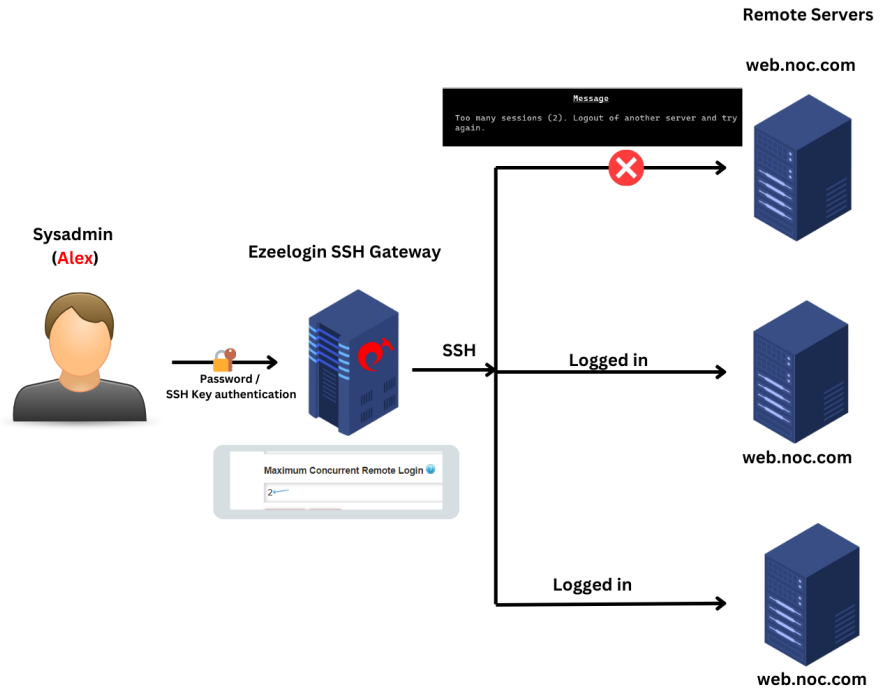
# Manage concurrent SSH connections

729 Santhi April 29, 2025 Features & Functionalities 1719

## How to limit max SSH sessions to remote Linux devices?

**Overview:** This article describes how to restrict concurrent SSH sessions on remote Linux devices using Ezeelogin's MCRL feature to enhance security and system performance.

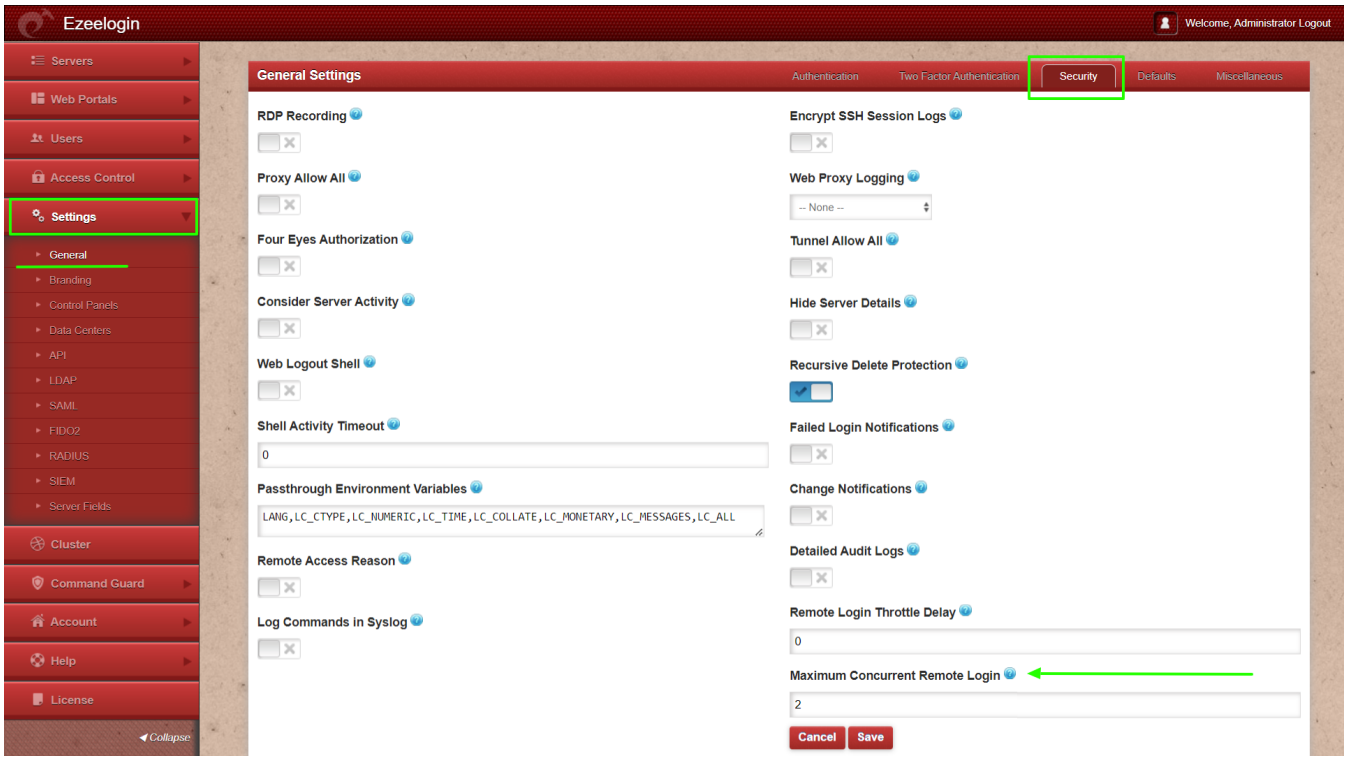
Limiting the maximum concurrent SSH sessions to remote Linux devices is essential for maintaining server security and preventing unauthorized access. **"Maximum concurrent remote login(MCRL)"** feature helps the system administrators to control the concurrent SSH sessions that a user can establish on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

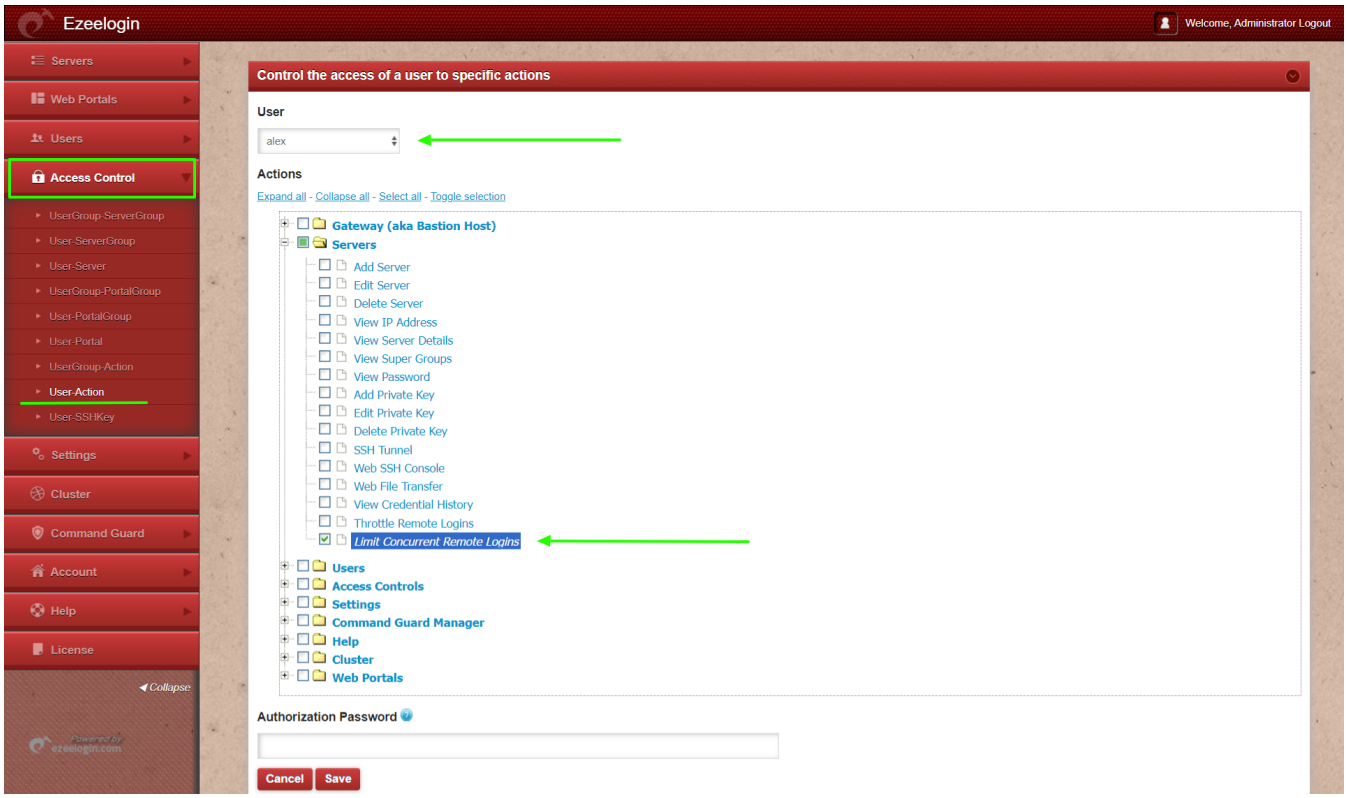



**Step 2:** To configure **MCRL for the individual user** '**Alex**', proceed with **step 2.a**, or alternatively,

proceed directly to **step 2.b** to configure **RLTD for the user group** '**Sysadmin**'."

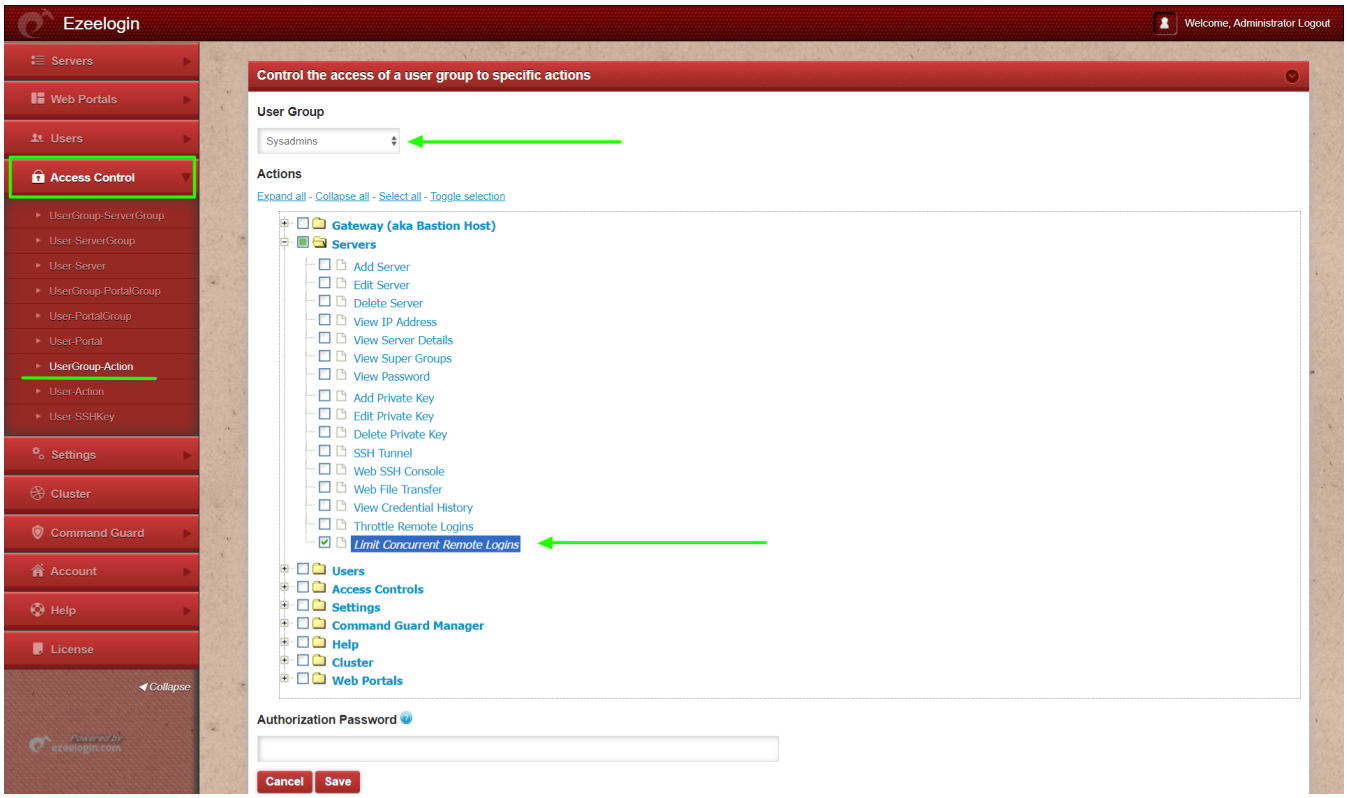
**Step 2(A):** How to **set Maximum Concurrent Remote Login for a specific user**?

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


Ezeelogin
Welcome, Administrator Logout
Servers
Web Portals
Users
Access Control
UserGroup-ServerGroup
User-ServerGroup
User-Server
UserGroup-PortalGroup
User-PortalGroup
User-Portal
UserGroup-Action
User-Action
User-SSHKey
Settings
Cluster
Command Guard
Account
Help
License
Collapse
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

**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'.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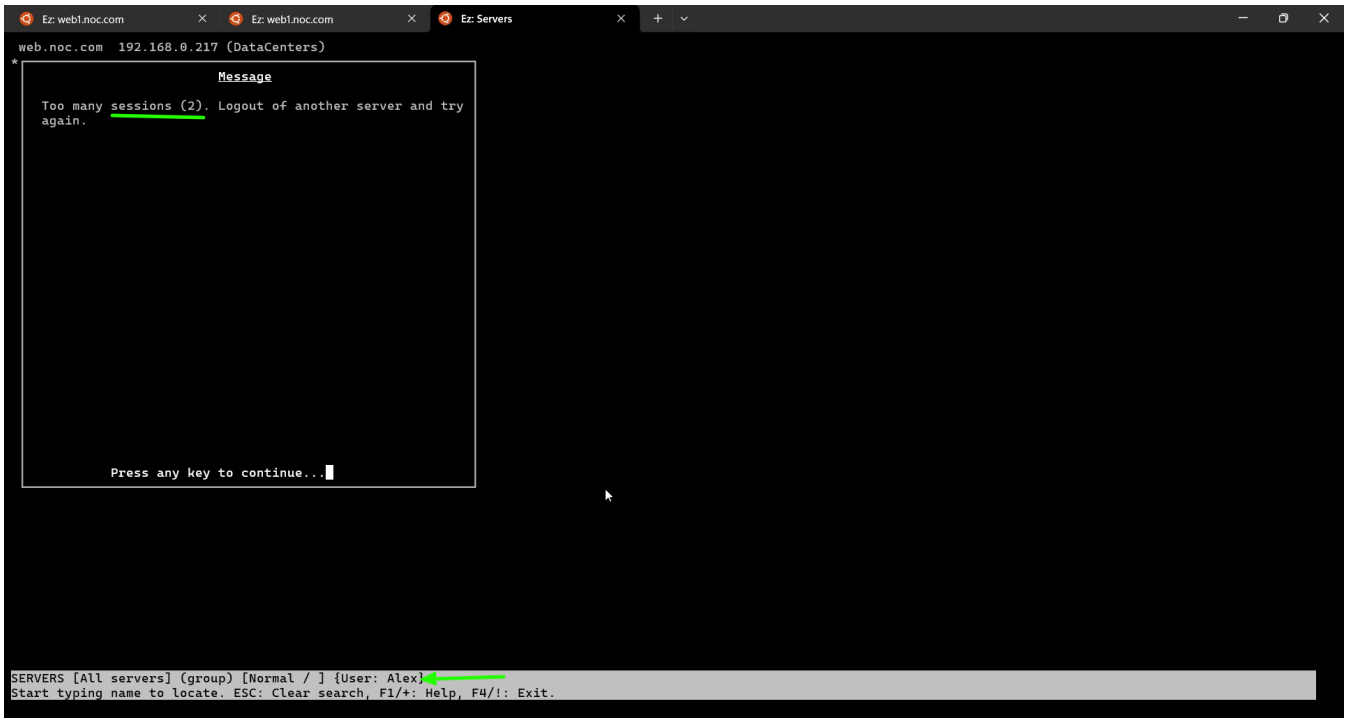
Access Controls
Settings
Command Guard Manager
Help
Cluster
Web Portals
Authorization Password
Cancel
Save

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.




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.

This feature is available from **Ezeelogin version 7.38.0**. To update your existing Ezeelogin to the latest version, refer to the article**.**

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