

# Manage concurrent SSH connections

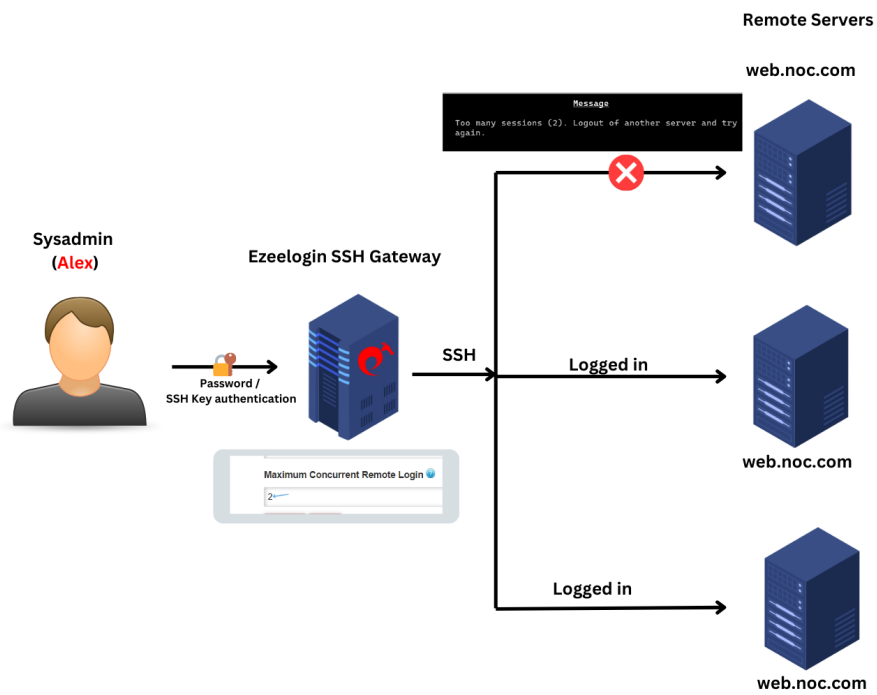
729 Santhi August 8, 2024 [Features & Functionalities](#) 1260

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

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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.

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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

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General Settings

AuthenticationTwo Factor AuthenticationSecurityDefaultsMiscellaneous

RDP Recording

Proxy Allow All

Four Eyes Authorization

Consider Server Activity

Web Logout Shell

Shell Activity Timeout

0

Passthrough Environment Variables

LANG, LC\_CTYPE, LC\_NUMERIC, LC\_TIME, LC\_COLLATE, LC\_MONETARY, LC\_MESSAGES, LC\_ALL

Remote Access Reason

Log Commands in Syslog

Encrypt SSH Session Logs

Web Proxy Logging

-- None --

Tunnel Allow All

Hide Server Details

Recursive Delete Protection

Failed Login Notifications

Change Notifications

Detailed Audit Logs

Remote Login Throttle Delay

0

Maximum Concurrent Remote Login

2

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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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

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Edit Private Key

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Web File Transfer

View Credential History

Throttle Remote Logins

Limit Concurrent Remote Logins

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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'**.

Ezeelogin

Welcome, Administrator Logout

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User-Portal

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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)

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Delete Server

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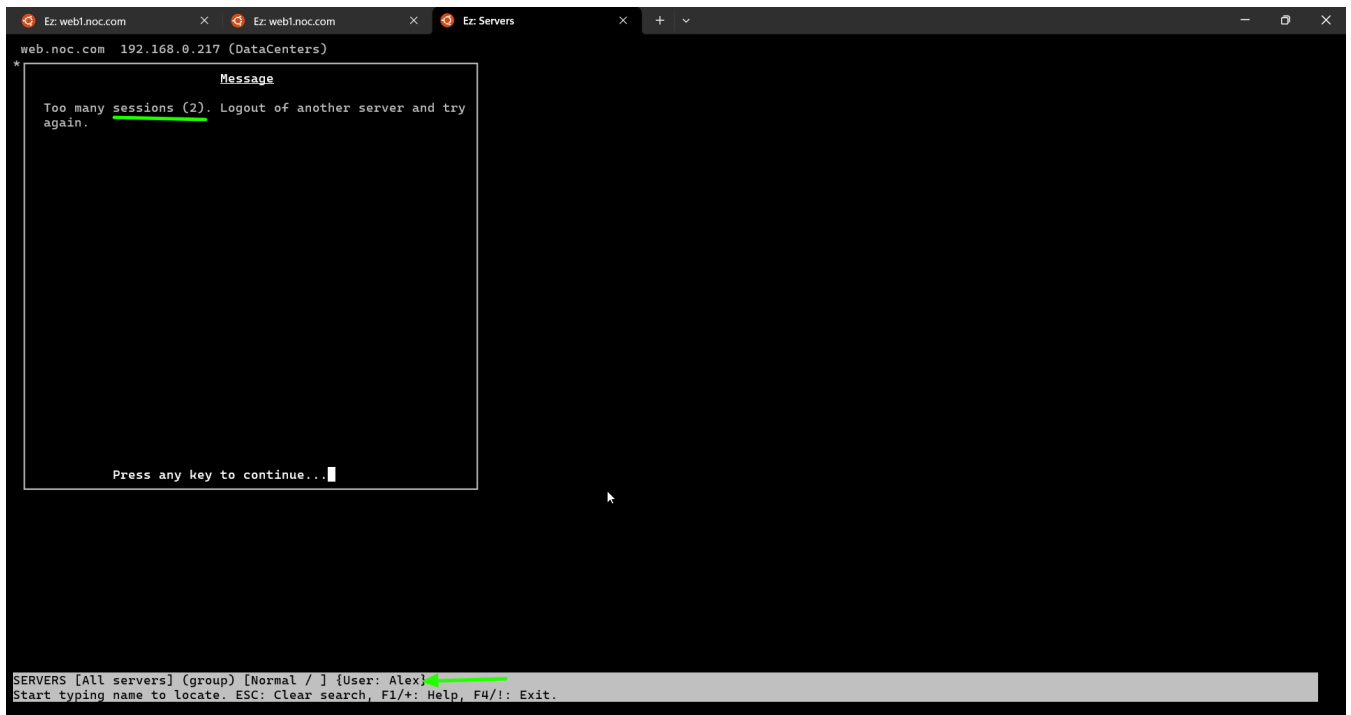
Cluster

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](#).

**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>