

# Manage concurrent SSH connections

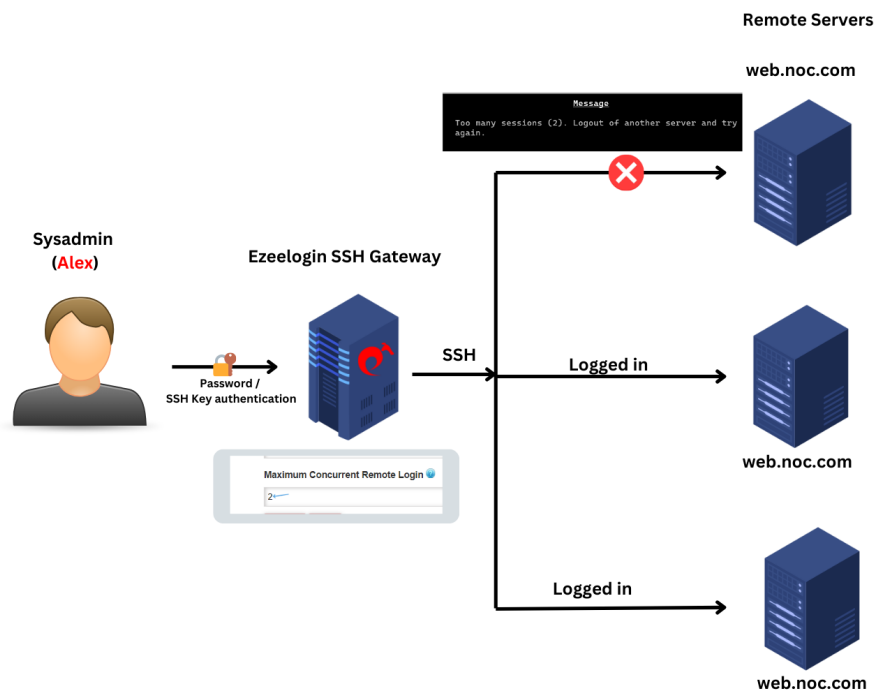
729 Santhi August 8, 2024 [Features & Functionalities](#) 911

## 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 Welcome, Administrator Logout

Servers  
Web Portals  
Users  
Access Control  
**Settings**  
  General  
  Branding  
  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**  
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**  ←

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'**.

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

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

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

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
    - 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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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.

```
web.noc.com 192.168.0.217 (DataCenters)
*
  Message
  Too many sessions (2). Logout of another server and try
  again.

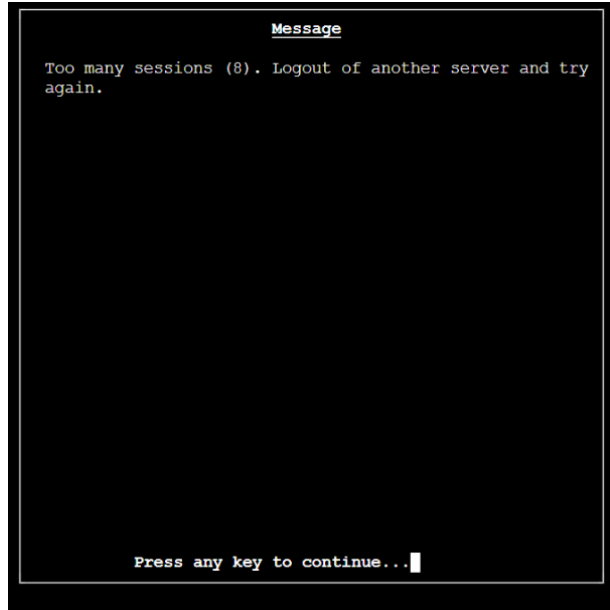
  Press any key to continue...

SERVERS [All servers] (group) [Normal / ] {User: Alex}
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>