Upgrade Ezeelogin Jump server to the latest version

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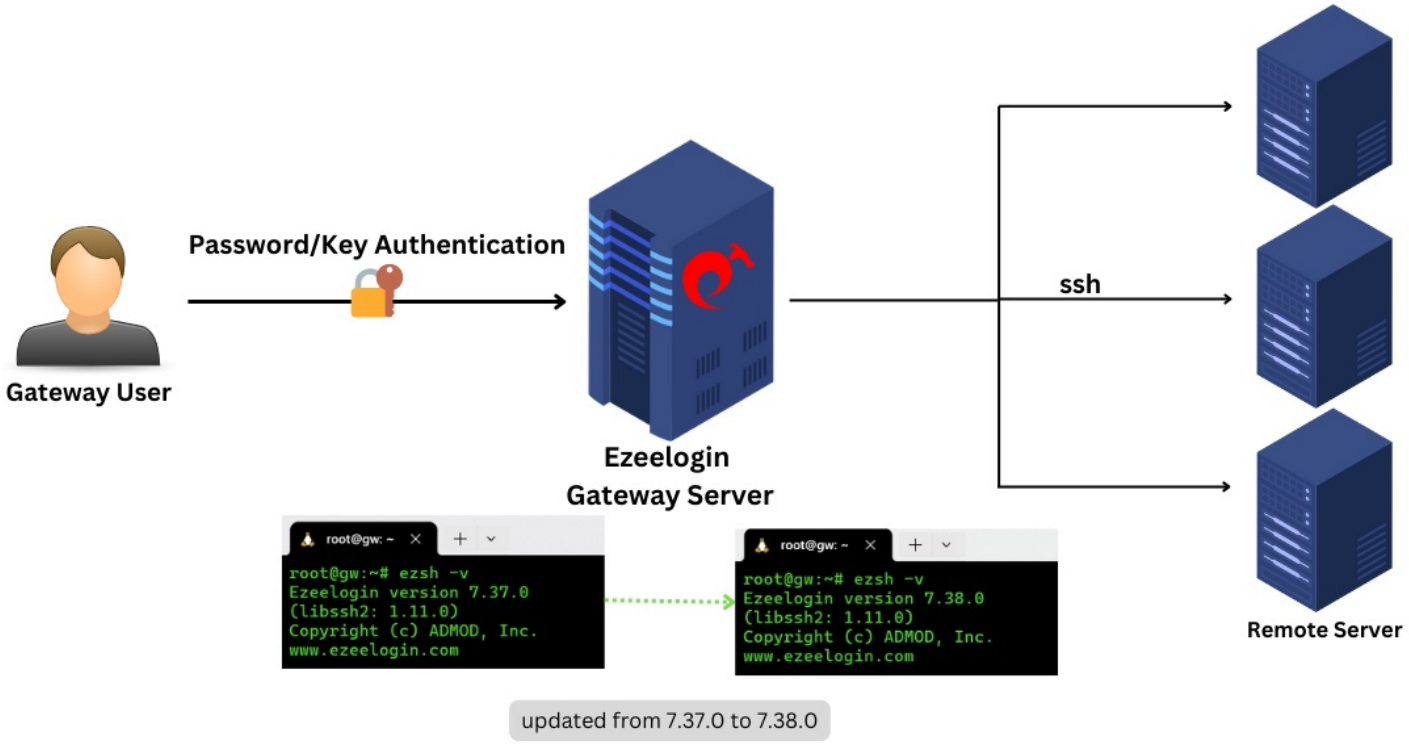
How to upgrade jump server to the latest version?

Overview: This article provides step-by-step instructions to upgrade the Ezeelogin jump server to the latest version on the primary node and on the secondary node.



Make sure to **synchronize the database** before proceeding with backup (step 1) if a cluster exists. If no cluster is being used, skip synchronization and proceed with **steps 1**.

Follow the below steps to upgrade your existing version of Ezeelogin

1. Backup current Ezeelogin installation

Step 1(A): Run **/usr/local/sbin/backup_ezlogin.php -help** for the **help menu**. Execute the following command on the **primary gateway server** to generate a backup of the installation so that you can restore the backup in case the upgrade breaks.

```
root@gateway:~# /usr/local/sbin/backup_ezlogin.php
```

The directory **/var/log/ezlogin** stores the user **ssh sessions** that are recorded. This dir could run into **huge size** (1GB >) which would cause the **backup_ezlogin.php script** to take **longer** to complete (The SSH logs recorded have to be tar 'red and the gzip 'ed compressed which is time and resource intensive). In such, cases it is advisable to **skip the ssh logs** while running the backup _ezlogin.php script as follows so that a backup archive is created super quickly.

root@gateway:~# **/usr/local/sbin/backup_ezlogin.php -nologs**

Make sure to take the backup /var/log/ezlogin when you back up ezeelogin with the nologs option.

root@gateway:~# **cp -pr /var/log/ezlogin /var/log/ezlogin_backup**

By default, the backup archives are created in **/var/** directory. To change the destination directory, use

root@gateway:~# **php /usr/local/sbin/backup_ezlogin.php -out /backup_directory/**

Step 1(B): This would create an executable archive of your Ezeelogin installation in **/var/ezlogin_backup_v6.2.0_b167_Fri_Mar_02_2012_04_23_22_CST.bin**

Step 1(C): Execute the backup bin file to **restore** if something goes wrong and you would like to revert.

Step 1(D): Now that we have the backups ready, let's go ahead with the update on the primary node as follows, preferably in the screen

Check the **/var/log/ezlogin_backup.log** for any errors that occurred during the backup process.

2. Upgrading the Ezeelogin jump server

If you are upgrading from a lower version of Ezeelogin(Below Ezeelogin version 7.10.0), Refer to section **(3)Running on an older version of Ezeelogin below**.

Step 2(A): Download the latest Ezeelogin package corresponding to the PHP version you have installed from the customer portal

```
root@gateway:~# wget https://downloads.ezeelogin.com/ezlogin_7.x.x.bin (Use the correct download link from the customer portal)
```

Redownload and update ionCube. Also, ensure that the Zend Engine version is v4.3.30, ionCube PHP Loader is v15.0.0, and Zend OPcache is v8.3.30.

If the versions do not match, remove the existing ionCube Loader and download it again. Confirm version by running php -v on gateway server:

Refer article: How to install ioncube on jump server?

root@gateway:~# php -v

PHP 8.3.30 (cli) (built: Feb 13 2026 15:58:45) (NTS)
Copyright (c) The PHP Group
Zend Engine **v4.3.30**, Copyright (c) Zend Technologies
with the ionCube **PHP Loader v15.0.0**, Copyright (c) 2002-2025, by ionCube Ltd.
with **Zend OPcache v8.3.30**, Copyright (c), by Zend Technologies

Step 2(B): Upgrade Ezeelogin with the following command

```
root@gateway:~# sh ezlogin_7.x.x.bin -- -update
```

Follow the onscreen prompts to complete the upgrade.

Refer to the article if you are upgrading PHP: Upgrading PHP along with the Ezeelogin upgrade
Refer to the article if you get the error: ERROR db user: Incorrect datetime value: '0000-00-00 00:00:00' for column 'expiry' at row 1

1. To upgrade in **one step** with your existing settings and without being prompted. Be ready with **MySQL root password** if not in **/root/.my.cnf**

-dbsuser <username> : Specify database super (root) user name
-dbspass <password> : Specify database super (root) user password

root@gateway:~# sh ezlogin_7.15.0._x_x.bin -- **-dbsuser** <enter db (root)username> **-dbspass** <enter-_(root)db_password> -skipgeolite -auto -force -ACCEPT_SETTINGS -I_ACCEPT_EULA -update

2. To upgrade in one step and to prevent the **backup_ezlogin.php** script from generating a backup again. Be ready with MySQL root password if not in /root/.my.cnf

root@gateway:~# sh ezlogin_7.15.0._x_x.bin -- -dbsuser <enter (root)db username> -dbspass <enter_(root)db_password> -skipgeolite -auto -force -ACCEPT_SETTINGS -I_ACCEPT_EULA -**skipbackup** -update

Frequently occurring issues after the upgrade.

1. Refer ezsh shell disallowed article if you get the error on ssh to the upgraded ssh jump server.
2. Refer No Two-factor Authentication enabled article if you get the error while login into the web panel after the upgrade.
3. Refer Could not load style files while accessing Ezeelogin after the upgrade.
4. Refer Integrate Ezeelogin with WAF(Cloudflare) in case the error to login to Ezeelogin persists.
5. Refer remote host identification changed article to reset fingerprint on all remote servers.Referremote host identification changed article to reset the fingerprint of the gateway machine to add or edit users.
6. Refer view/hide IP address article to grant the privilege to view the IP of remote servers. (This feature is available from 7.29.2)
7. Refer configure DUO article if you get "invalid_grant" or "An Error Was Encountered" in Ezeelogin GUI.
8. Refer your system folder path does not appear to be set correctly article to correct the file permissions.
9. Refer Error while logging into Ezeelogin GUI article if get the login expired error in Ezeelogin software GUI

10. Refer run sshd on different ports article if getting the error ""**Invalid subsystem request**".

Check the **/var/log/ezlogin_update.log** for any errors that occurred during the upgrade.

If you are using **WEBSSH, WEBRDP, OR EZPROXY on Webportal** run the following command to update the node modules

root@gateway:~# php /usr/local/ezlogin/eztool.php **-install_node_modules**

3. Running on an older version of Ezeelogin? Refer to the following step to upgrade.

Step 3(A): If you are running Version 5.x.x, you would first need to upgrade to Version 6.0.x before upgrading to Version 7.0.x.

Step 3(B): To upgrade to Version 6.0.x, download 6.0.0 and upgrade to Version 6.0.0 first.

> http://downloads.ezeelogin.com/ezlogin_6.0.0.bin

Step 3(C): To upgrade to Version 7.0.x, download 7.0.x and upgrade

> http://downloads.ezeelogin.com/ezlogin_7.0.0.bin

Step 3(D): If you are already running Version 6. x.x, you would first need to upgrade to Version 7.0.x before upgrading to version 7.10.0

Step 3(E): To upgrade to Version 7.0.x, download

> http://downloads.ezeelogin.com/ezlogin_7.0.0.bin

Step 3(F): Once you have upgraded to Version 7.0.0, download version 7.10.0 or the latest from the customer portal.

Step 3(G): If you are running Version 7. x.x to the 7.9.x version, you would first need to upgrade to Version 7.10.0 before upgrading to the latest version

> Make sure to download the binary package to **/root**

> Ezeelogin 7.10.0 version can be downloaded from your customer portal area.

Step 3(H): If you are already running Version 7.10.x, you can upgrade to the latest version

> The latest version of Ezeelogin can be downloaded from the customer portal area

Check out the latest system requirements

> https://www.ezeelogin.com/user_manual/Systemrequirements.html

You are required to upgrade your Ioncube encoder to the latest version 6 and above. Refer to the following article to upgrade Ioncube to the latest.

> How do I install Ioncube on the server?

It is recommended to have the secondary node configured and synchronized (cluster setup) to ensure that we can still log in to servers via the secondary node and not be locked out in the event of an unsuccessful upgrade.

> Install-slave-secondary-node-for-high-availability-in-jump-server

4. Restoring the Ezeelogin jump server from backup

Step 4(A): If something is broken after the upgrade, no worries. We will restore the backup from the archive that was created. You would first need to uninstall the current installation on the gateway.

Step 4(B): Backup Ezeelogin configuration file directory and ssh logs before uninstall

```
root@gateway:~# cp /usr/local/etc/ezlogin  /usr/local/etc/ezlogin_backup

root@gateway:~# cp /var/log/ezlogin  var/log/ezlogin_backup
```

Run the following script to uninstall

```
root@gateway:~# /usr/local/sbin/uninstall_ezlogin.php
```

Step 4(C): Now that we have uninstalled it, we can go ahead and restore the binary backup archive that was created.

```
root@gateway:~# sh /var/ezlogin_backup_v7.0.0_b167_Fri_Mar_02_2012_04_23_22_CST.bin
```

Step 4(D): If you want to do the restore in one step with your existing settings and without being prompted run the below command.

```
root@gateway:~# sh ezlogin_backup_v7.9.0_b381_Wed_Feb_13_2019_23_26_03_IST.bin  -- -skipgeolite -auto -force -ACCEPT_SETTINGS -I_ACCEPT_EULA
```

Step 4(E): Replace the **backup filename** with your backup file. Follow the onscreen prompts to complete the restoration.

Increase PHP memory in /etc/php.ini if backup restoration fails without any reason. Do check **/var/log/ezlogin_restore.log** for errors.

Refer to the following article to restore ssh logs if you have skip logs while backup Ezeelogin.

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5. Upgrading Ezeelogin jump server on the Secondary Node

5(A): For Ezeelogin Version 7.23.0 and above

This option will support only from Ezeelogin version 7.23.0 and above.

You can upgrade the secondary node with the following command. Run the below command on the secondary server.

```
root@secondary_server:~# sh ezlogin_7.x.x.bin -- -secondary <ip_adress of the secondary/slave node> -othernode <ip_address of master node> -update
```

You should upgrade the slave node only after upgrading the master node. If the slave node is once upgraded, you should need to upgrade the master before upgrading the slave node again.

1. To upgrade slave in **one step** with your existing settings and without being prompted. Be ready with MySQL root password if not in /root/.my.cnf

-dbsuser <username> : Specify database super (root) user name
-dbspass <password> : Specify database super (root) user password
-orport <port> : Specify the SSH port on the other node. Only applicable if installing as secondary.

root@secondary_server:~# sh ezlogin_7.15.0._x_x.bin -- -secondary <ip_adress of the secondary/slave node> -othernode <ip_address of master node> -**dbsuser** <enter db (root)username> -**dbspass** <enter-_(root)db_password> -skipgeolite -orport <othernode_ssh_port> -auto -force -ACCEPT_SETTINGS -I_ACCEPT_EULA -update

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2. To upgrade in one step and to **prevent the backup_ezlogin.php** script from generating a backup again. Be ready with MySQL root password if not in /root/.my.cnf

root@secondary_server:~# sh ezlogin_7.15.0._x_x.bin -- -secondary <ip_adress of the secondary/slave node> -othernode <ip_address of master node> -dbsuser <enter db (root)username> -dbspass <enter-_(root)db_password> -skipgeolite -orport <othernode_ssh_port> -auto -force -ACCEPT_SETTINGS -I_ACCEPT_EULA -**skipbackup** -update

5(B): For Ezeelogin Version 7.22.0 and below

Unfortunately, the secondary nodes need to be re-installed for Ezeelogin version 7.22.0 and below

Backup Ezeelogin configuration file directory and ssh logs directory before uninstall. Run below commands on the secondary server.

```
root@secondary_server:~# cp /usr/local/etc/ezlogin  /usr/local/etc/ezlogin_backup

root@secondary_server:~# cp /var/log/ezlogin  /var/log/ezlogin_backup
```

Uninstall Ezeelogin with the following command

```
root@secondary_server:~# /usr/local/sbin/uninstall_ezlogin.php
```

Download the same package used for the primary

```
root@secondary_server:~# wget https://downloads.ezeelogin.com/ezlogin_7.x.x.bin
```

Execute the following command to install Ezeelogin on the secondary server.

```
root@secondary_server:~# sh ezlogin_7.x.x.bin -- -secondary <ip_adress of the secondary/slave node> -othernode <ip_address of master node>
```

Copy the lic.dat from the **/usr/local/etc/ezlogin_backup** to **/usr/local/etc/ezlogin** directory if you are using the standalone license.

Also, copy **tls_cert.pem** and **tls_key.pem** to **/usr/local/etc/ezlogin** directory, if you are using **webssh**, **ezproxy,** or **webrdp** feature.

Related Articles:

Install-slave-secondary-node-for-high-availability-in-jump-server

ERROR db user: Incorrect datetime value: '0000-00-00 00:00:00' for column 'expiry' at row 1

Setup and configure ssh jump server

Migrating Ezeelogin database manually when the table size is large for faster Ezeelogin software upgrades

Online URL: https://www.ezeelogin.com/kb/article/upgrade-ezeelogin-jump-server-to-the-latest-version-136.html