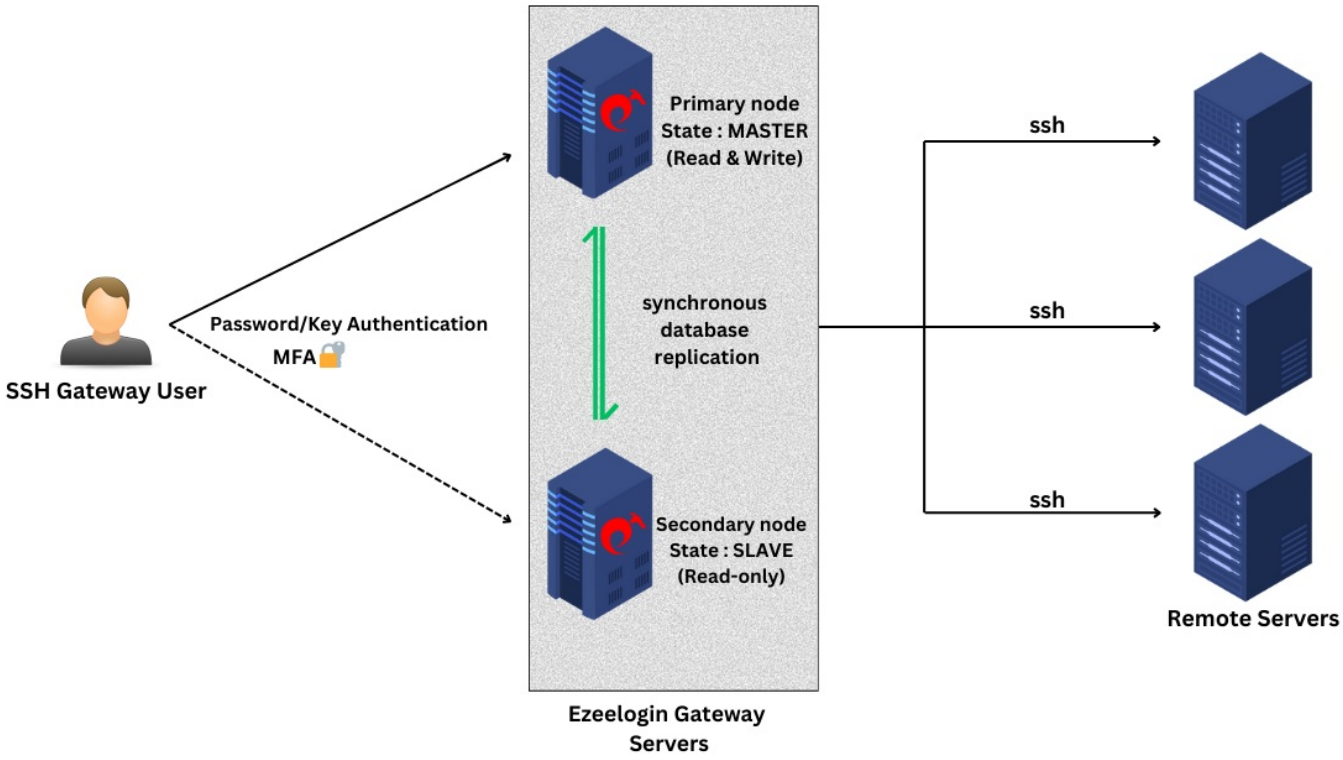
Install slave / secondary node for high availability in jump server

21 admin October 29, 2026 Getting Started, Installation 23837

Install a slave/secondary node for high availability in the Ezeelogin jump server.

Overview: In a cluster configuration, Ezeelogin employs primary and secondary nodes to manage the gateway services. The primary node is responsible for the main operations and database management, while secondary nodes serve as backups and share the load, providing redundancy and failover capabilities.

The slave node acts as the failover in case the primary goes down. It is always recommended to set up the slave node so that servers are accessible at all times just in case the primary nodes are accessible due to hardware or network failures.



Advantages of having a slave node:

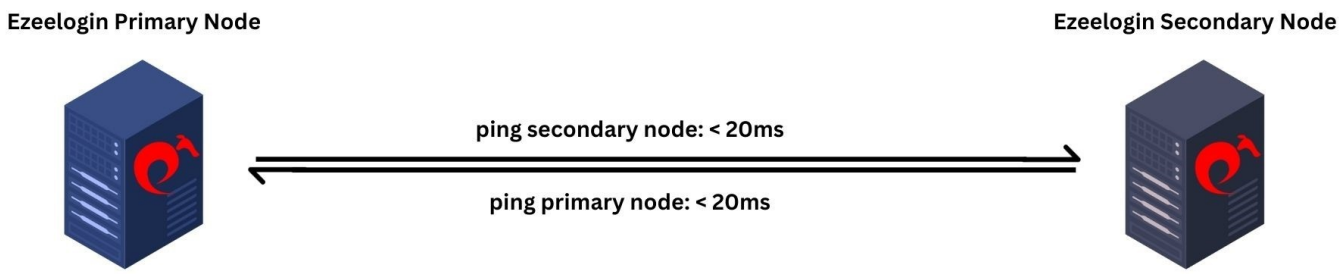
Backup servers synchronized with the primary node
Ready to take over in case of primary node failure
Share the load with the primary node for scalability and redundancy

Do affirm with the following note:

Ensure that the slave IP is licensed
Ensure that the MySQL server is running on the slave. Also, make sure that MySQL **listens to public IP on the master and slave nodes**
Ensure the firewall on the master does not block mysql and ssh connections initiated from the slave
On the slave node, download the same binary package that was used on the primary. This is to ensure that the master and the slave node use the same version of Ezeelogin for the cluster to work

Additional information:

Make sure to keep the **master-slave connection below 20ms**. If the connection time exceeds 20ms, the GUI may become slow due to real-time data synchronization.



Confirm the connection time using below commands.

```
root@master_node:~# ping slave_node_ip

root@slave_node:~# ping master_node_ip
```

Example: ping 192.168.56.222

```
PING 192.168.56.222 (192.168.56.222) 56(84) bytes of data.
64 bytes from 192.168.56.222: icmp_seq=1 ttl=64 time=2.39 ms
64 bytes from 192.168.56.222: icmp_seq=2 ttl=64 time=1.33 ms
64 bytes from 192.168.56.222: icmp_seq=3 ttl=64 time=1.08 ms
^C
--- 192.168.56.222 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4008ms
rtt min/avg/max/mdev = 0.940/1.401/2.388/0.512 ms
```

Step 1: Log in to your **Customer Portal area**.

Step 2: Click on the license tab,

On the **Old customer** portal : Select your **primary license**, and click on the **'Buy Cluster'** link on the right.

On the **New customer** portal : Edit the license and add a Secondary IP address.

Step 3: Issue the slave/secondary license for the IP of the slave server.

For standalone license**:** Rename the license file to **ezlic.dat** and place it under the **/root/** directory.

Step 4: Refer to the following article to install Ezeelogin dependency packages and follow it till the 3rd step (Ioncube loader).

> How do you install Ezeelogin dependency packages?

Step 5: Download the same version of Ezeelogin in the slave / secondary server as in the master / primary server.



Latest version

The latest Ezeelogin version is: 7.48.0

Downloads	
For PHP version 8.4 and above:	https://downloads.ezeelogin.com/ezlogin_7.48.0_php84.bin
For PHP version 8.2.x and 8.3.x:	https://downloads.ezeelogin.com/ezlogin_7.48.0_php82.bin
For PHP version 8.1.x:	https://downloads.ezeelogin.com/ezlogin_7.48.0_php81.bin
For PHP version 7.x (end of life):	https://downloads.ezeelogin.com/ezlogin_7.36.0_php71.bin
For PHP version 5.6 to 7.0 (end of life):	https://downloads.ezeelogin.com/ezlogin_7.27.6_php56-70.bin
For PHP version 5.3 to 5.5 (end of life):	https://downloads.ezeelogin.com/ezlogin_7.10.0_php53-55.bin

NOTE: 7.36.0 is the last version that supports PHP versions 7.x, 7.27.6 is the last version that supports PHP versions from 5.6 to 7.0 and 7.10.0 is the last version that supports PHP versions from 5.3 to 5.5

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

Step 6: Execute the following command on the primary server to grant access to the Ezeelogin database from the secondary/slave node.

```
root@gateway:~# php /usr/local/ezlogin/grant_host.php  <ip_address of secondary node/slave>
```

If you are planning to connect to remote MySQL/RDS servers, you should grant access to the database on the remote database server.

This is not required if your MySQL server is running on localhost.

(**Replace "root"** with **database admin user & 'PASSWORD' with your database admin user password**)

mysql> GRANT ALL PRIVILEGES ON *.* TO 'root'@'%' IDENTIFIED BY 'PASSWORD' WITH GRANT OPTION;

mysql> flush privileges;

Step 7: Execute the following command on the slave/secondary node.

root@gateway:~# sh ezlogin_**7.x.x**.bin -- -secondary **<ip_addr of secondary node>** -othernode **<ip_addr of master node>**

If you are getting the following error after installation **"ERROR granting access for DB user: Access denied for user 'root'@'%' to database 'ezlogin_jzgzs' ",** run the following command to grant privileges manually**.** This error usually pops up while using remote MySQL database/ RDS connections.

Login to MySQL as root or admin user & replace with your Ezeelogin database credentials. Ezeelogin database credentials such as dbname, dbusername & dbpassword will displayed on the installation screen[reviewsettings]) or you can refer the article *to retrieve Ezeelogin database credentials.*

root@gateway:~# mysql -u root -p

mysql> grant all on ezeelogin_dbname.* to 'ezlogin_dbusername'@'%' identified by 'ezeelogin_dbusername_password' ;

mysql> flush privileges;

Example:
mysql> grant all on ezlogin_jzgzs.* to 'ezlogin_xynqwd'@'%' identified by '!T3}3wczV6VrWxG)kn{5&3t5';

(Database credentials such as dbname, dbusername & dbpassword will displayed on the installation screen **[reviewsettings]**

Step 8: Append the below lines in **/etc/ssh/sshd_config** on both master and slave nodes.

 # append the below lines on the master node
Match Address **slave_node_ip**
PermitRootLogin yes
PubkeyAuthentication yes

 # append the below lines on the slave node
Match Address **master_node_ip**
PermitRootLogin yes
PubkeyAuthentication yes

To learn more about how the Ezeelogin cluster works and understand cluster logs, refer to: Ezeelogin Cluster Explained

FAQ:

1. Can we disable the slave server since we are currently using only the master node?

Certainly, the choice to disable the slave server is yours, but keep a note that data synchronization between the master and slave servers will not occur if the slave is disabled. Keeping both servers running and synchronized for real-time data updates is recommended, as changes made to the master server will automatically sync with the slave server.

2. How to configure OIDC for secondary node?

Login to the secondary node, obtain the redirect URL from Settings -> OpenID Connect, add it to the OIDC provider application settings, and then configure the application in the master node GUI under Settings -> OpenID Connect -> Secondary Node Settings.

Refer to the article: Authentication with OpenID connect

Related Articles:

Explanation of cluster
Switch Cluster nodes
Verify the Database to sync tables in a database
Integrating SSO/SAML with Ezeelogin PAM

Authentication with OpenID connect

Restore ssh logs from the old Ezeelogin server to the new server

Create a load balancer in AWS for the Ezeelogin cluster
Reset Cluster keys in Master-Slave Configuration
Configure Cluster manual

Online URL: https://www.ezeelogin.com/kb/article/install-slave-secondary-node-for-high-availability-in-jump-server-21.html