Different key based authentication to remote server

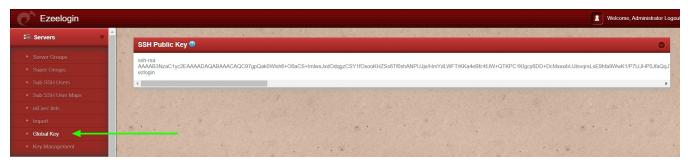
104 admin November 23, 2024 Tweaks & Configuration 6879

What are the different key based authentication methods for SSH to remote servers?

Overview: The article discusses various key-based authentication methods for SSH to remote servers using Ezeelogin. It covers topics such as global/public keys, private keys, key management, changing the default global key, and adding custom key pairs during the installation process.

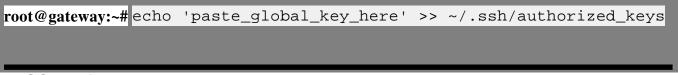
1. Ezeelogin global or public key

Step 1(A): Login to Ezeelogin software GUI, navigate to Global key and copy the global key.



Step 1(B): Login to the Ezeelogin backend (ezsh) and keep the selector on **all servers** and press '**F7**' or '*' to get into the <u>parallel shell</u>

Step 1(C): Run the below command using the parallel shell to copy the <u>public key</u> to all servers. Wait for the parallel shell execution to complete before pressing any key to return to the command line. This will ensure that the public_key is copied across all servers.



2. SSH Private key

Step 2(A): Users can add a remote server with any private key. Copy the public key from
/root/.ssh/id_rsa.pub and paste it inside the authorized_keys file of the user in the remote server.

How to add a server with the private key?

3. Key management or saved key

Step 3(A): User can add a remote server with the private key stored in key management. Save the private keys and use them while adding the servers.

Step 3(B): Navigate to **Servers -> Key Management** and add the private key along with the passphrase (if the key was generated with a passphrase).

Ezeelogin	Welcome, Administrator Logov
E Servers	Add SSH Private Key
 Server Groups 	Name 🖗
Super Groups	
 Sub SSH Users 	ubuntu_private_key
 Sub SSH User Maps 	SSH Private Key
mExec lists	DBH0qgxiDXKyA6pbpfwfdopa4xee12Pc_jBnyajbh26n3n6+fAhF++1TC4/e <u>HC0uz</u>
► Import	H18po0vpLtYdd81o5hsgx1902T1bNacwkLjBaa2EN3t18DzoF30gm7HvYF8C8M4 aXv5KeT1x41a0Acaz+unic6921XEPtvLhRFC2K510Ptk6F1JCBK0vLUAkT1FyrN
 Global Key 	DnjovyW6odXXn64tFHLmupvqcQzID0w6aBx81kclbkX041rVQVxxagTatAuJymu Zn8sHX56tVX/JH_CMQzIVvQ14DnJATJG13dBHAhmuvqdvvd5SRp0/mhFoTGn
Key Management	mVImob7z1BeHUQAMPCNMtCpCG79bnuA07aKHSEHXX1VaSByj3EhYowLek4GuEk3Q9 9kCb86f/8l4zZFX79A6tdQX7KAODxiy1+wR+bQQ7hFikn1dbABbKn8mg= END RSA PRIVATE KEY
🖬 Web Portals 🔹 🕨	SSH Key Passphrase
🎗 Users 🕨 🕨	
Access Control	Cancel Save

Step 3(C): Add a remote server with the key saved in the key management tab.

Ezeelogin		Welcome, Administrator Logout
t≣ Servers ▼	Edit Server	
 Server Groups 	Hostname	IP Address(es)
Super Groups Sub SSH Users	ubuntu.server	192.168.1.16 192.168.1.11
 Sub SSH User Maps 	SSH Private Key 😺	SSH Password / RDP Password
mExec lists Import	4	
 Global Key 	SSH Key Passphrase 🐵	Server Group
Key Management	Password Management 🗑	production_server \$
Web Portals	keep server password	SSH
tu Users ►	SSH Port	enabled \$
Access Control	22	Remote SSH login user / RDP login user tony
Settings	Control Panel	Datacenter @
Cluster	- None + Description	None 🗘
Command Guard		Saved SSH Private Key 🥹
Account	RDP 🕹	ubuntu_private_key 🛊
🛇 Help	×	Windows Domain 🕑
License	RDP Port 3389	Cancel Save
✓ Collapse	-	

4. Change gloabl key

This feature is available only from Ezeelogin Version 7.3.6 and above.	
How to change the default Global Key being used to log on to remote servers?	

Servers V	SSH Public Key 🕲
Server Groups	sh-sa
Super Groups	AAAAB3NzaC1yc2EAAAADAQABAAACAQC97gpQak0Wish8+06aCS+ImlwsJxdOdggzCSY1f0xooKHZSs6Tf0shANPUJjerHmYdLWFTrKKa4eBfc4fJW+QTKPC1KIgcy6DD+DcMooxibUJtsvgrsLsE9hfa9WwK1/P7LJJHP0Jfa ezlogin
Sub SSH Users	
Sub SSH User Maps	
20000000000000000000000000000000000000	
Sub SSH User Maps mExec lists Import	

Change the existing key pair used in Ezeelogin.

5. Can a user use <u>custom private and public keys</u> in Ezeelogin?

Step 5(A): Users can add a <u>custom key pair</u> during installation only. It cannot be changed to a custom key pair after installation. You would need to generate your own 4096-bit RSA Keys using ssh-keygen

root@gateway:~# ssh-keygen -b 4096 -t rsa -P <enter-strong-pass> -f /root/test-pvt-key

Your identification has been saved in /root/test-pvt-key

Your public key has been saved in /root/test-pvt-key.pub

Step 5(B): Run the Ezeelogin installation package with the following option.

root@gateway:~# sh ezlogin_7.1.6.bin -- -help

-sshkey : Specify the path of SSH private key to be used. Default: generates new key -sshkeypass : Specify the password (if any) for SSH private key. Default: no password

root@gateway:~# sh ezlogin_7.1.6.bin -- -sshkey /root/test-pvt-key -sshkeypass ads*9s798js0sdf9#\$2!sdr@@

Complete the installation. The custom public key would be used when new servers are added in and would be visible under **Servers** -> **Global Key**

The private key cannot be decrypted. To get the private key, a new global key pair has to be generated.

Related Articles:

SSH Key rotation to remote servers

Add a server using SSH key pair in ezeelogin

Using custom private and public keys in Ezeelogin

Different types of SSH authentication keys

Online URL:

https://www.ezeelogin.com/kb/article/different-key-based-authentication-to-remote-server-104.html