How to configure Yubikey two factor authentication in ssh ?

- ## How to enable/disable Yubikey 2FA (Two-factor Authentication) in Ezeelogin?

Synopsis: This article provides a comprehensive guide on configuring and managing Yubikey two-factor authentication (2FA) for SSH jump host.
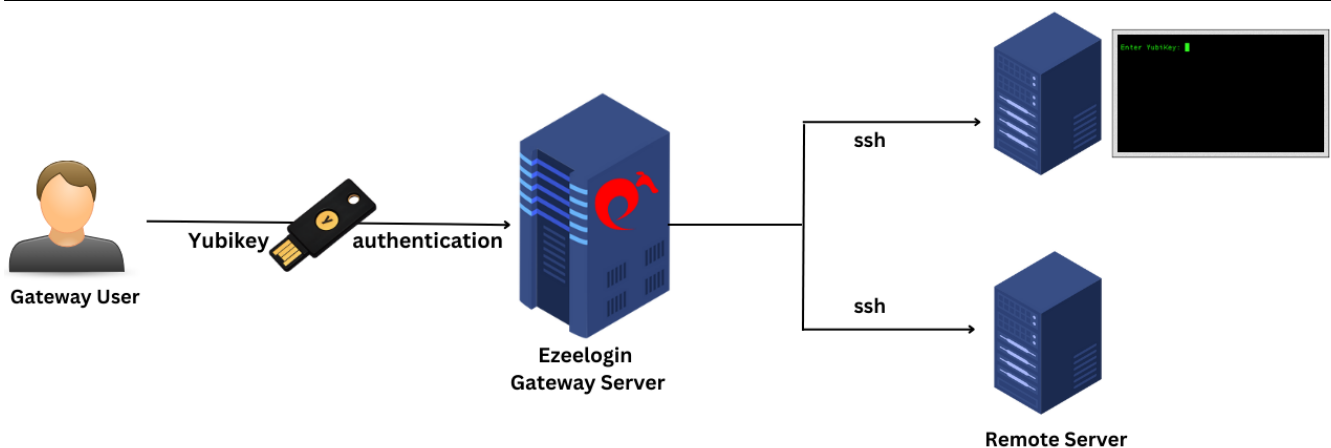
Do refer to the YouTube video to [Configure Yubikey two-factor authentication]() in ssh jump host.

Step 1: **Enable Yubikey 2FA in the Ezeelogin Web Interface with an admin privileged User.**

- Login into Ezeelogin web GUI as an Admin user.
- Navigate to **Settings** -> **General** -> **Two FactorAuthentication** .
- Enable Yubikey by clicking on "Get Yubico API Key" to obtain the Client and Secret for Yubikey.

Step 2: **Set Up Yubikey for User Authentication**

- Navigate to Account > Password > New Yubikey and follow the prompts to complete the setup for each user.
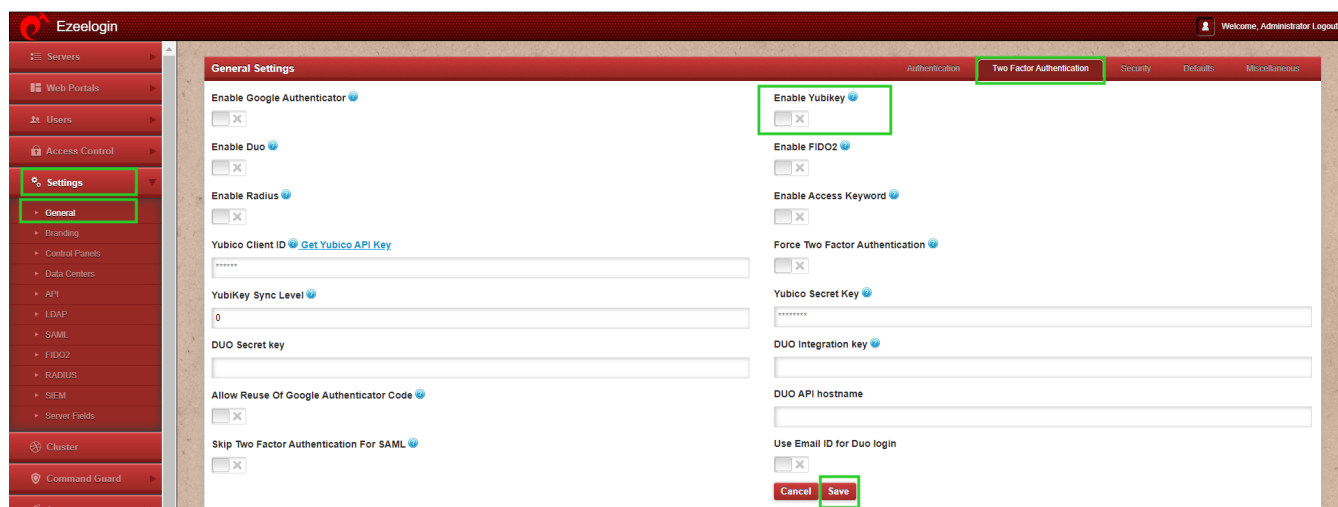

Step 3**: Usage in Web Interface**

- Log in to the Ezeelogin web interface using the Yubikey 2FA method.
- The last successful 2FA method used in the web interface will automatically be applied to the backend SSH or ezsh shell.

Step **to Disable Yubikey 2FA from the GUI.**

- Navigate to **Settings > General > Two-factor Authentication** and **disable Yubikey**.

Emergency CLI Method:

- How to disable Yubikey 2FA (Two-factor Authentication) from the backend?

Run the below commands to disable and clear Google authenticator. Replace the username to disable Yubikey for that user.

```
root@gateway ~]# php /usr/local/ezlogin/ez_queryrunner.php "update prefix_settings set value='N' where(name='enable_yubikey')"


root@gateway ~]# php /usr/local/ezlogin/ez_queryrunner.php "update prefix_users set eyk=NULL where username='ezadmin'"
```

No Two-factor Authentication enabled

This error happens when we enforce Two-Factor authentication without enabling any of the Two-Factor authentications. Run the following command to disable **Force Two Factor Authentication.**

```
root@gateway ~]# php /usr/local/ezlogin/ez_queryrunner.php "update prefix_settings SET value = 0 WHERE name = 'two_factor_auth'"
```

```
root@gateway ~]# php /usr/local/ezlogin/ez_queryrunner.php  "update prefix_usergroups SET
force_tfa = 'N'"
```

- **Yubikey outbound URL's to be whitelisted**

  - Following are the Yubikey outbound URLs to be whitelisted in the firewall.

1. 'https://api.yubico.com/wsapi/2.0/verify'
2. 'https://api2.yubico.com/wsapi/2.0/verify'
3. 'https://api3.yubico.com/wsapi/2.0/verify'
4. 'https://api4.yubico.com/wsapi/2.0/verify'
5. 'https://api5.yubico.com/wsapi/2.0/verify'

  - Yubikey Library requires access to the above URLs. Also, do check out the article for the list of YubiKey API servers that the YubiKey client would utilizehttps://developers.yubico.com/yubikey-val/Getting_Started_Writing_Clients.html

Related Articles:

[Disable all 2fa from the backend.](#)

[Enforce 2fa on user login.](#)

[Reset 2fa on Ezeelogin user.](#)

Online URL:
https://www.ezeelogin.com/kb/article/how-to-configure-yubikey-two-factor-authentication-in-ssh-75.html