# How to configure Yubikey two factor authentication in ssh ?

75 admin November 22, 2024 Features & Functionalities, Tweaks & Configuration 20965

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

---

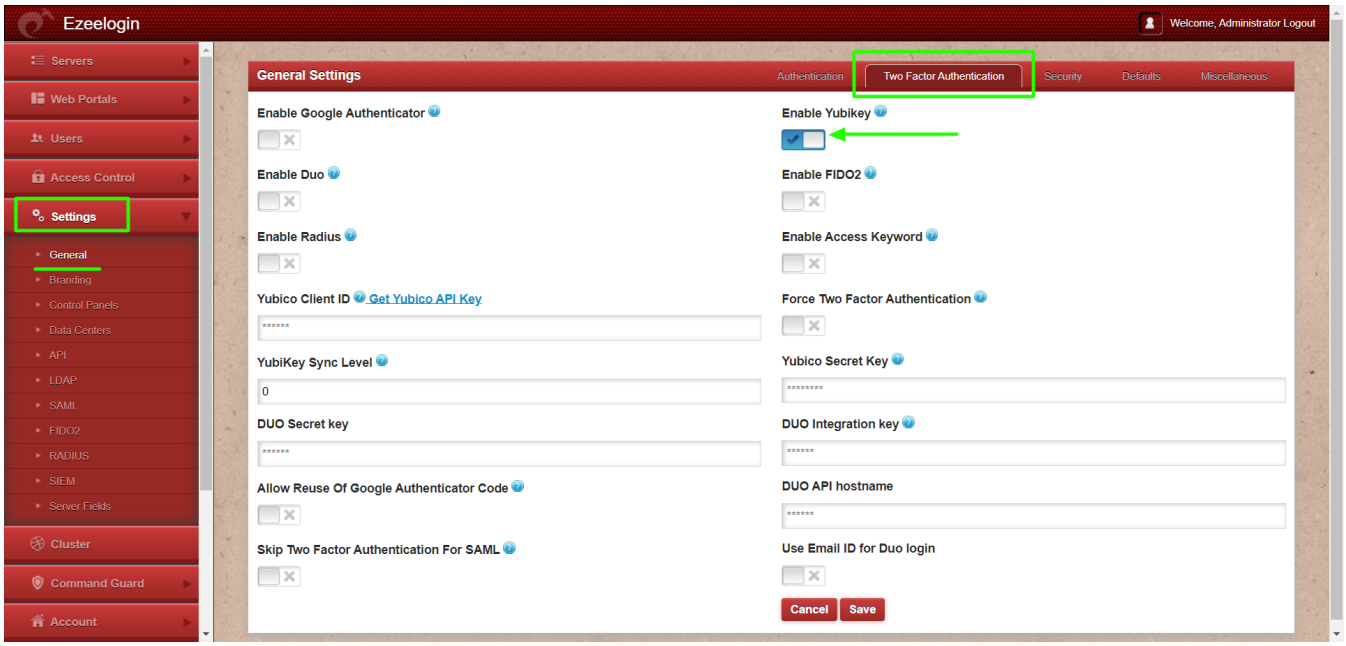
**Overview**: This article provides a comprehensive guide on configuring and managing Yubikey two-factor authentication (2FA) for SSH jump host.

---

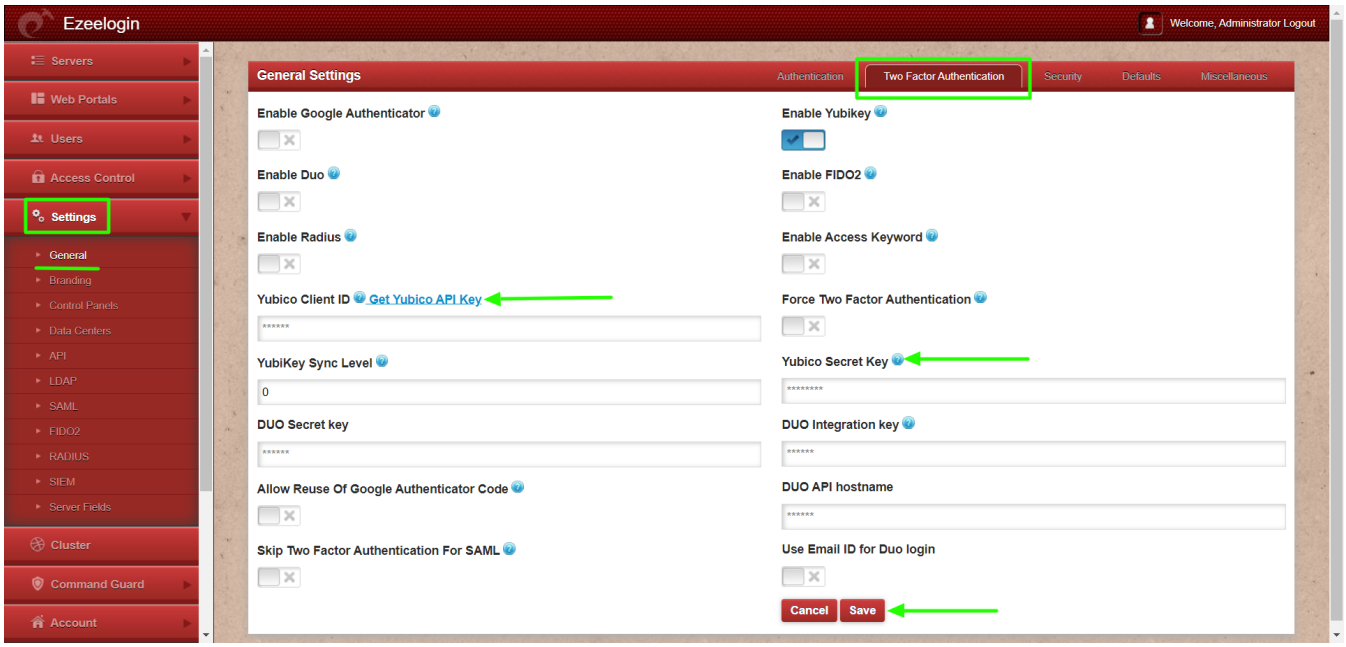
Refer to the YouTube video to Configure Yubikey's two-factor authentication in ssh jump host.

### 1. How to enable Yubikey?

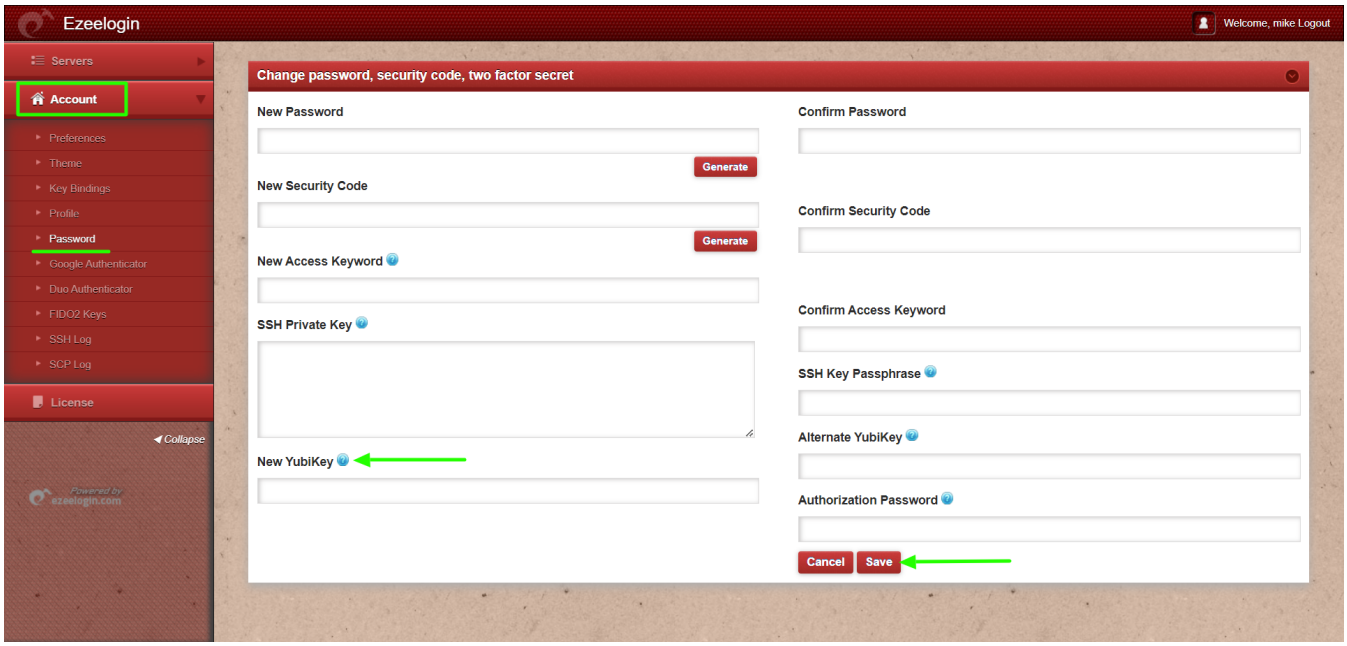
**Step 1(A):** Log in to the Ezeelogin GUI as an admin privileged user, navigate to **Settings** -> **General** -> **Two Factor Authentication,** and enable Yubikey.



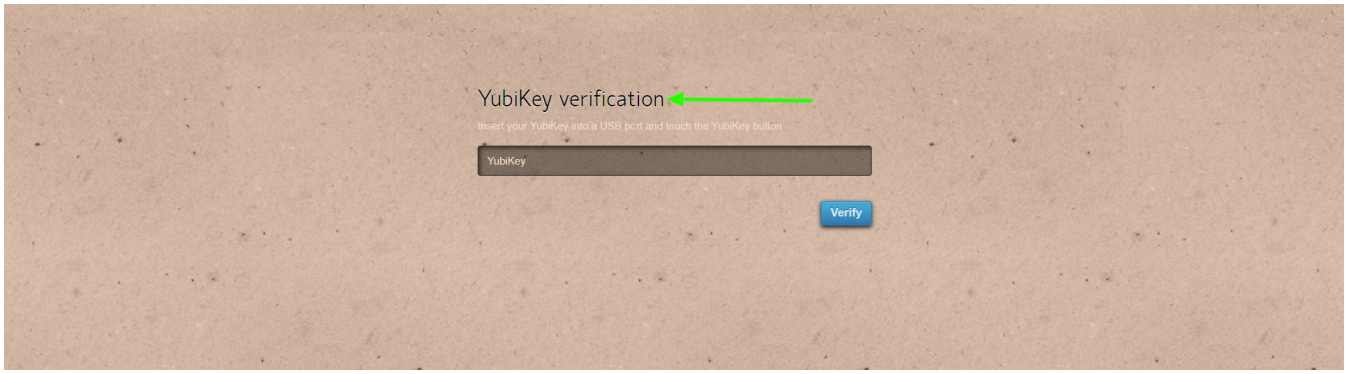

**Step 1(B):** Click on "**Get Yubico API Key**" to obtain the Yubico Client ID and secret key.




**Step 1(C):** To set up Yubikey for user authentication, navigate to **Account** -> **Password** -> **New Yubikey** and click on **save** after providing the authorization password(password of the currently logged in user).



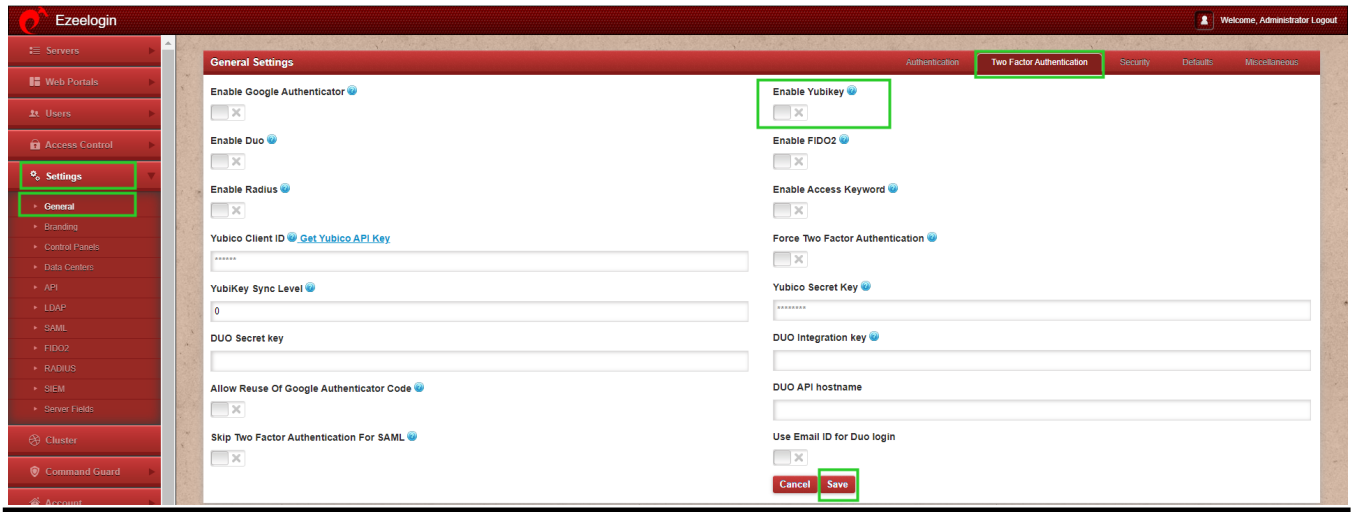

**Step 1(D):** Log in to the Ezeelogin GUI using the Yubikey 2FA method.




**Step 1(E):** The backend 2fa method will also be now using Yubikey.


## 2. Disable Yubikey 2FA from the GUI.

**Step 2(A):** To disable Yubikey from Ezeelogin GUI, navigate to **Settings -> General -> Two-factor Authentication** and [disable Yubikey](#).




## Emergency CLI Method:

1. How do we 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**

2. 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 URLs 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 utilize https://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.