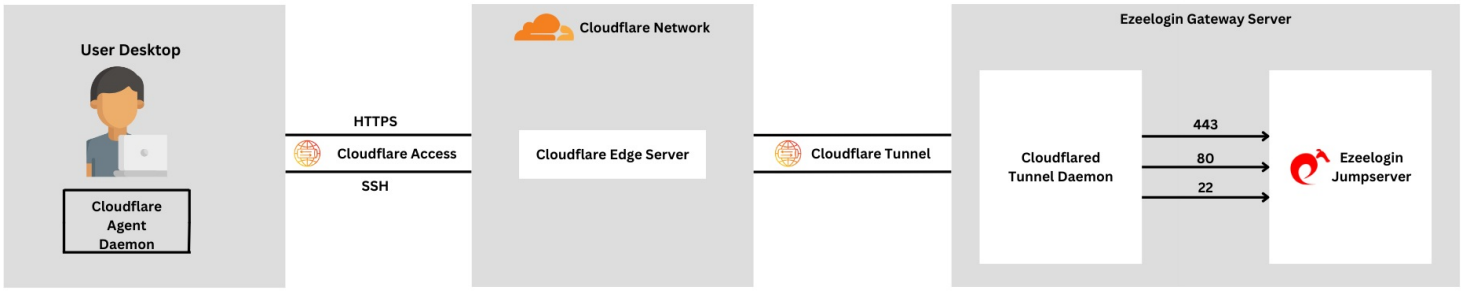
Cloudflare ZTNA for securing SSH access to endpoint devices

720 Manu Chacko July 2, 2024 Security Compliances, Tweaks & Configuration 7341

Setup Cloudflare ZTNA (Zero Trust Network Access) with Ezeelogin for securing SSH access

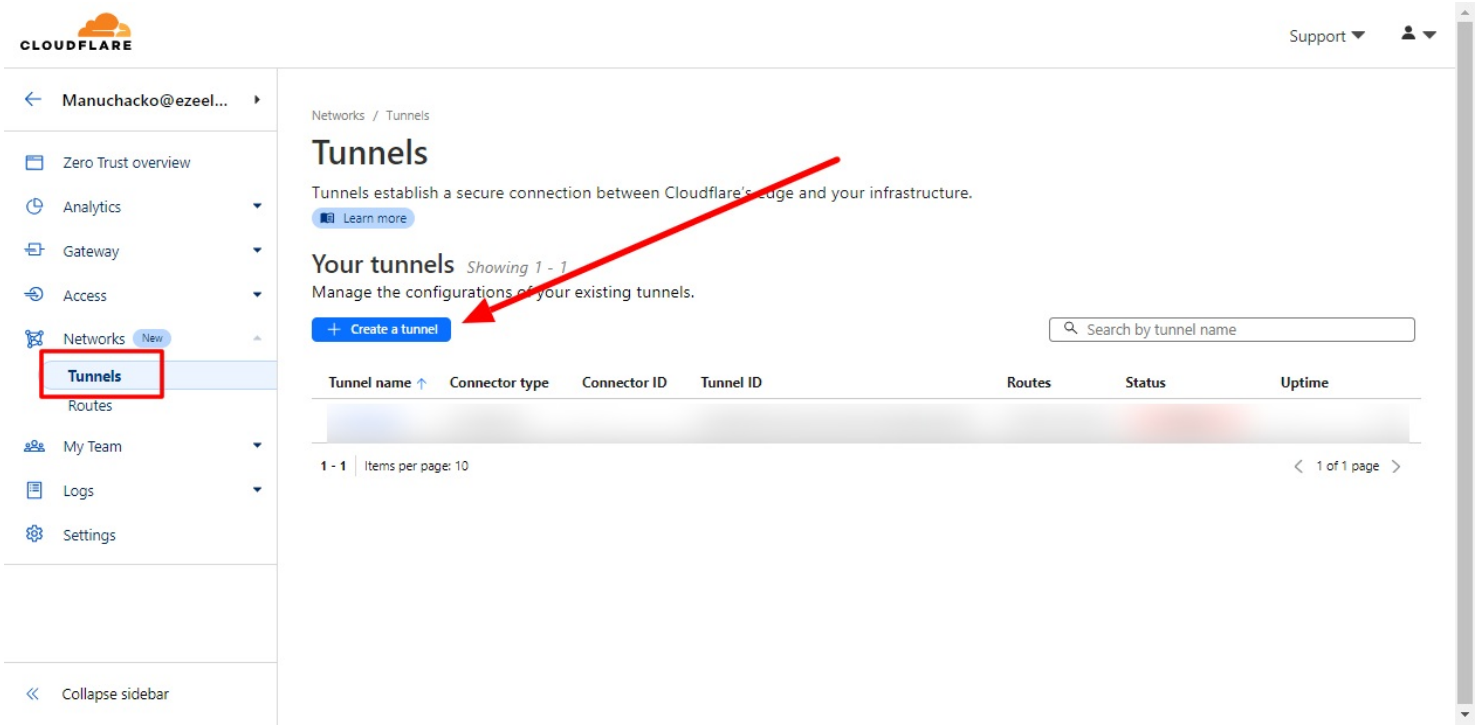
Cloudflare Tunnel can also route applications through a public hostname, allowing users to connect to an SSH server with Cloudflared access. This method requires Cloudflared to be installed on both the server and client machines, as well as an active zone on Cloudflare. The traffic is proxied over this connection.

The benefit of this method is that it provides a secure and reliable way to access Ezeelogin. By routing applications through a public hostname and using Cloudflare **Zero Trust Network Access**, you can enhance security by hiding your server's true IP address and exposing it through a secure Cloudflare Tunnel. This approach simplifies access, allowing users to connect to Ezeelogin from anywhere without the need for a VPN. Additionally, it improves reliability by leveraging Cloudflare's robust network, ensuring consistent and dependable access to your server. Centralized management of access and configurations is made easy through Cloudflare's dashboard, and the attack surface is reduced by minimizing the risk of direct attacks on your server using Cloudflare's security features.

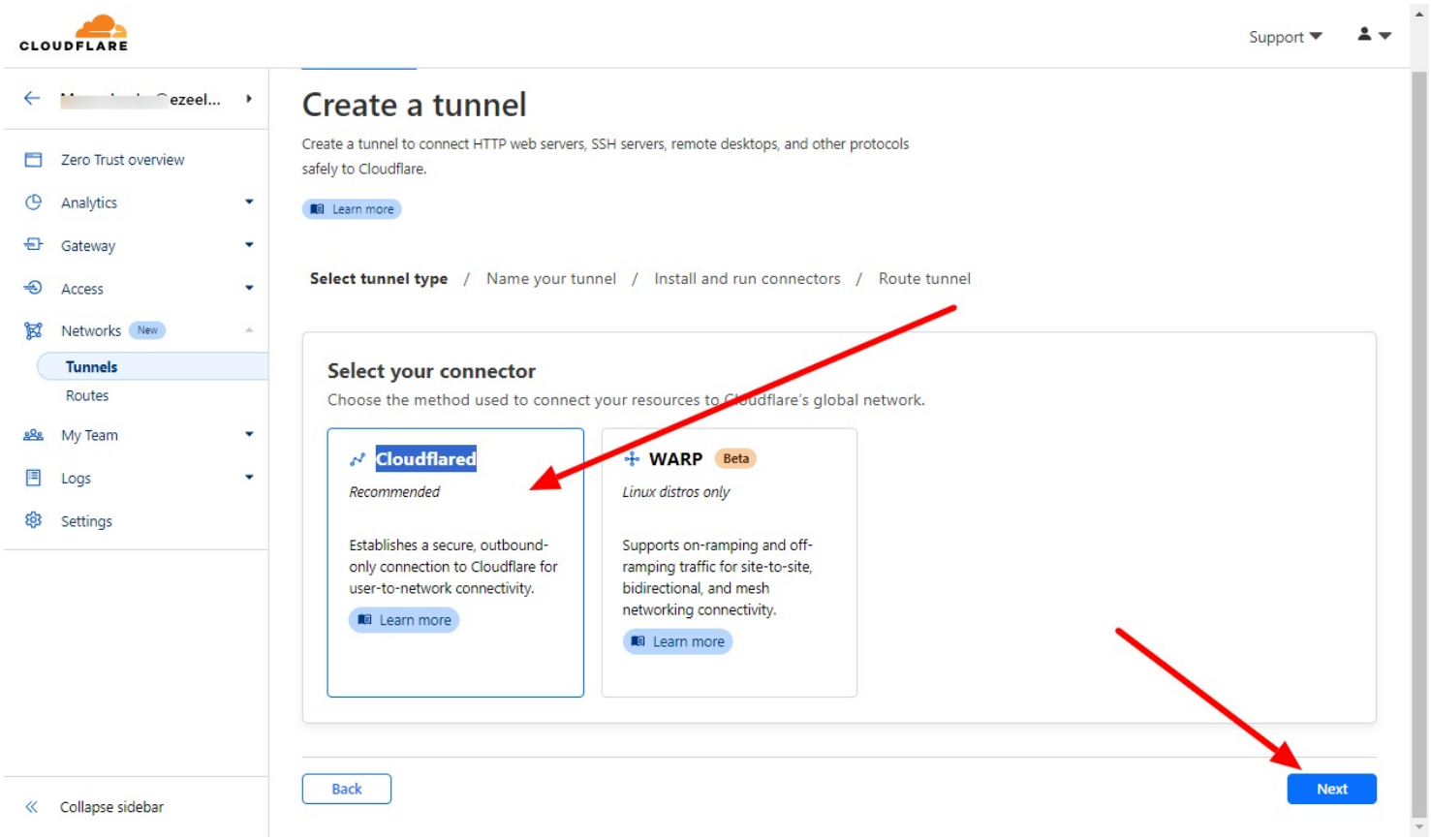


1. Connect the server to Cloudflare

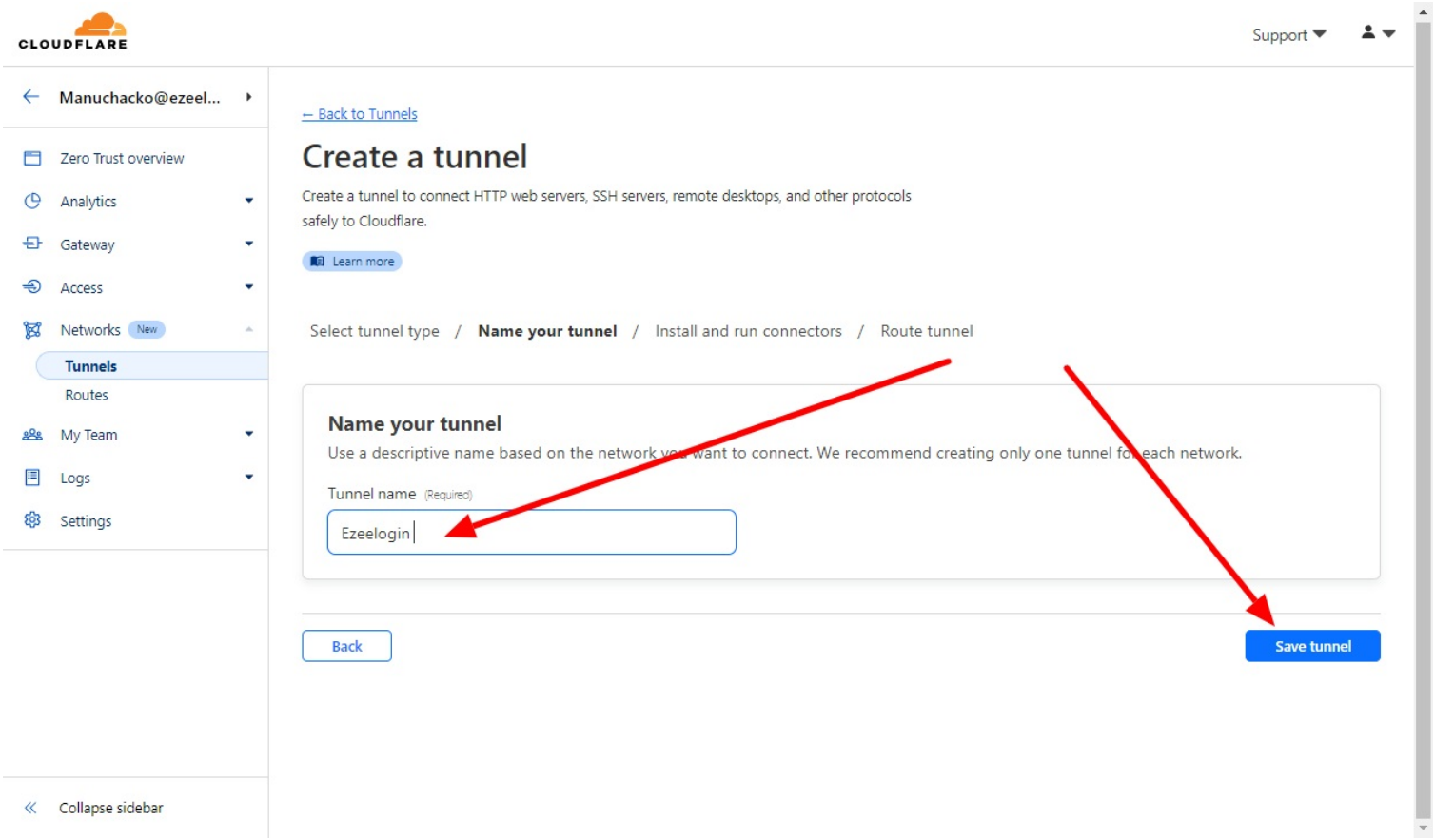
1. Login to Cloudflare dashboard. click on Zero Trust > Network > Tunnels



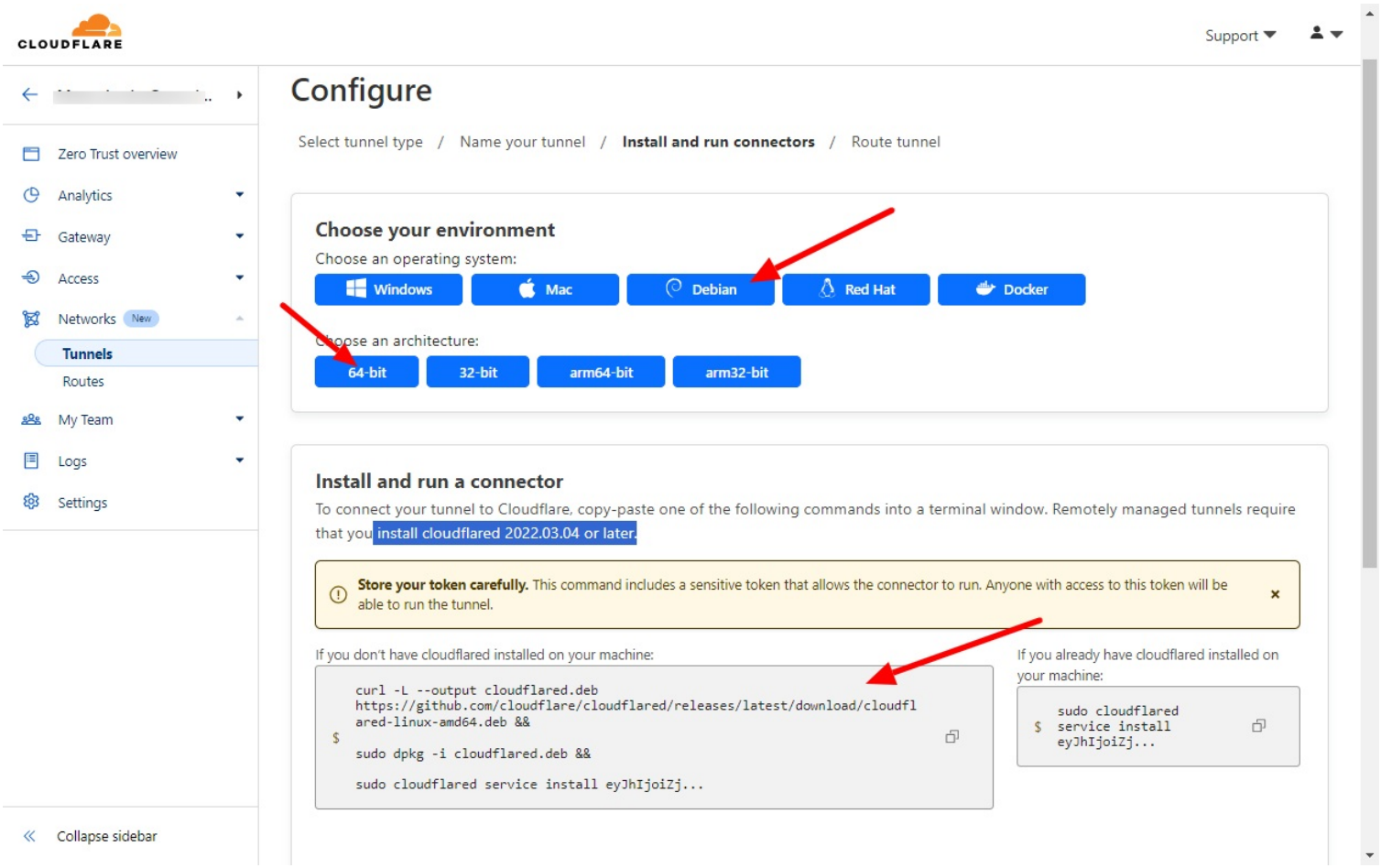
2. Click and **Create tunnel** and select **Cloudflared** connector, then click **next**



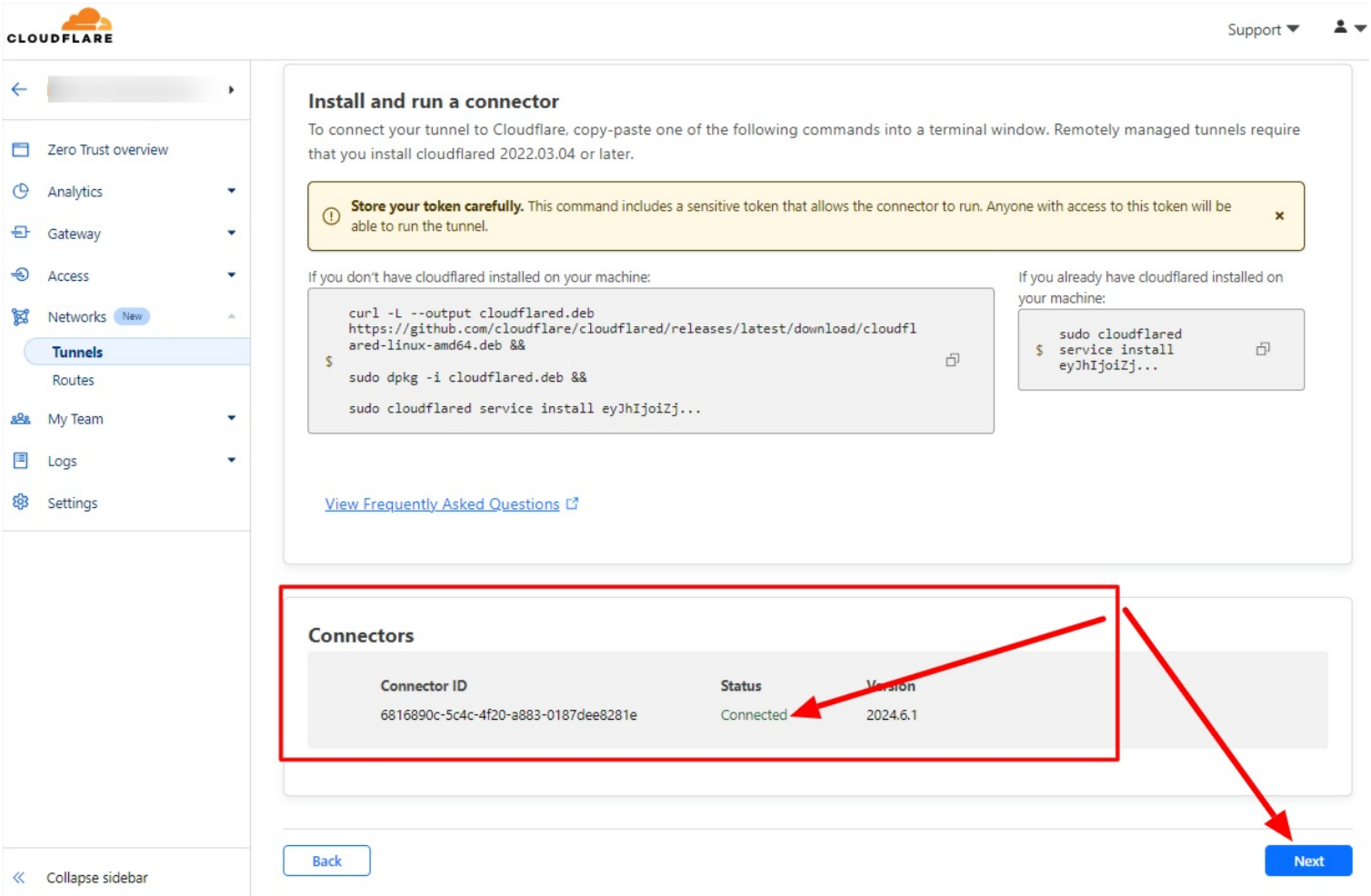
3. Name your tunnel and **save tunnel**



4. Now you can install Cloudflared on your Ezeelogin server. Select the operating system of your server and copy the corresponding installation command as follows:

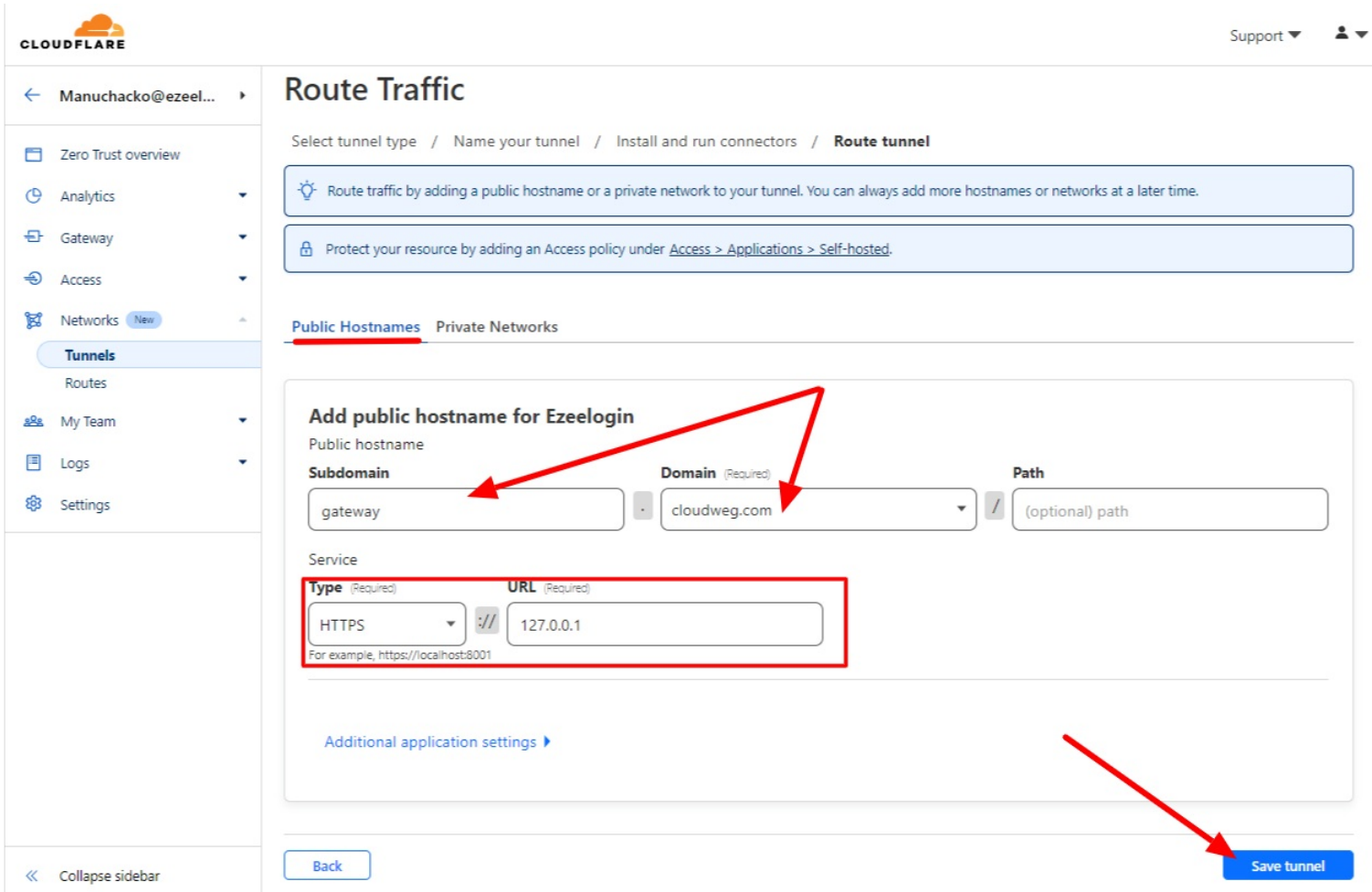


5. After installation you can view the status as **connected** in the dashboard and click **next**

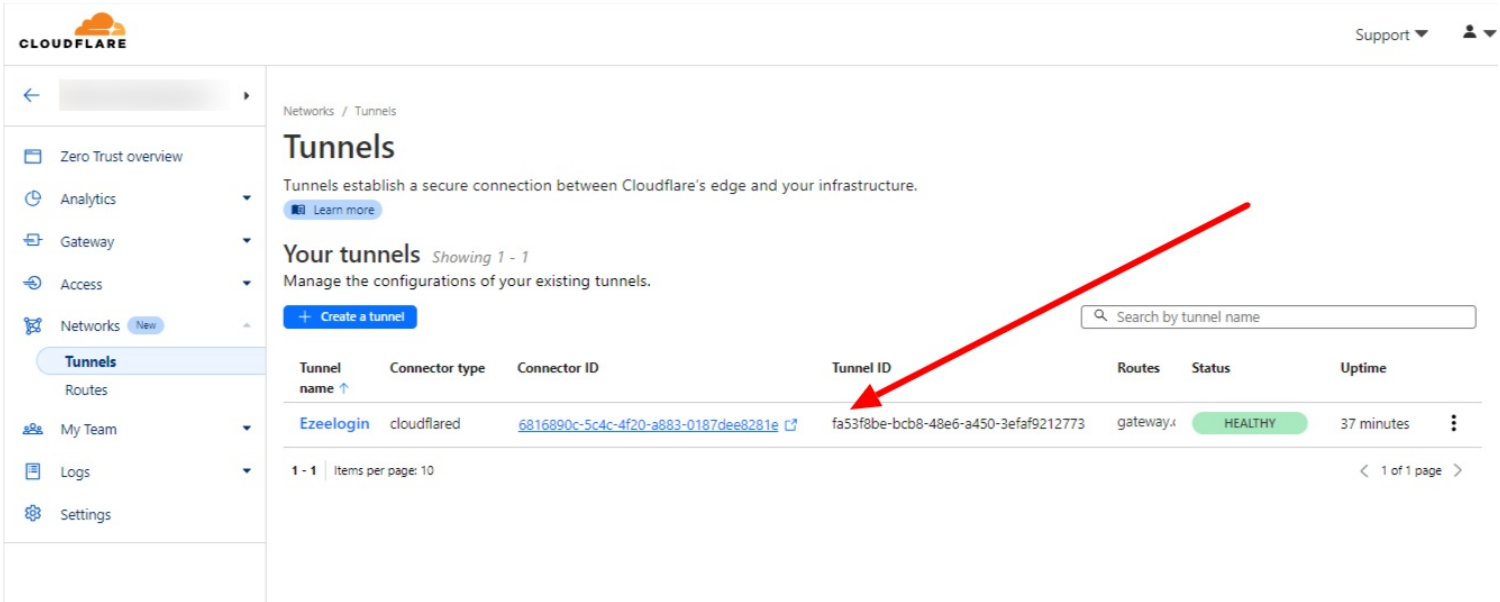


6. Choose a **Domain** and specify any **subdomain**(eg: gateway). Select **HTTPS/HTTP** and enter the URL **127.0.0.1** or **localhost**

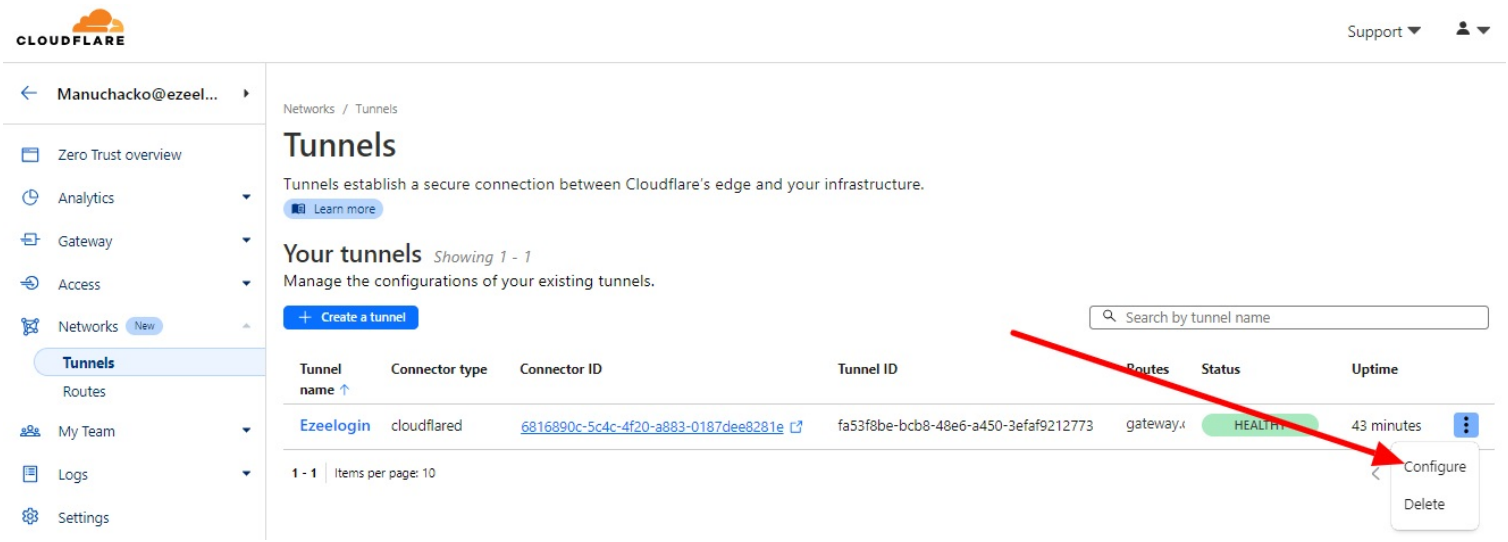
You can select any domain that is already added in Cloudflare.

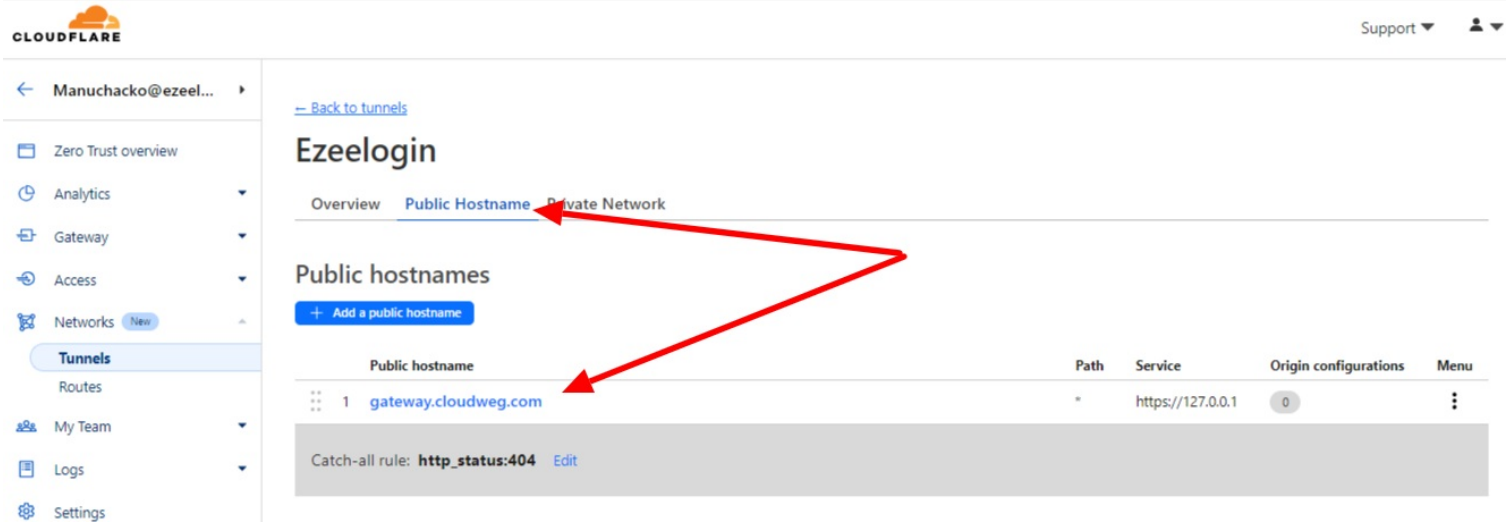


You can view the tunnel in the Tunnels dashboard after saving it.



You can view the **subdomain** created from the **dashboard** > **configure** >**public hostname**





7. Append below lines in **/usr/local/etc/ezlogin/ez.conf**

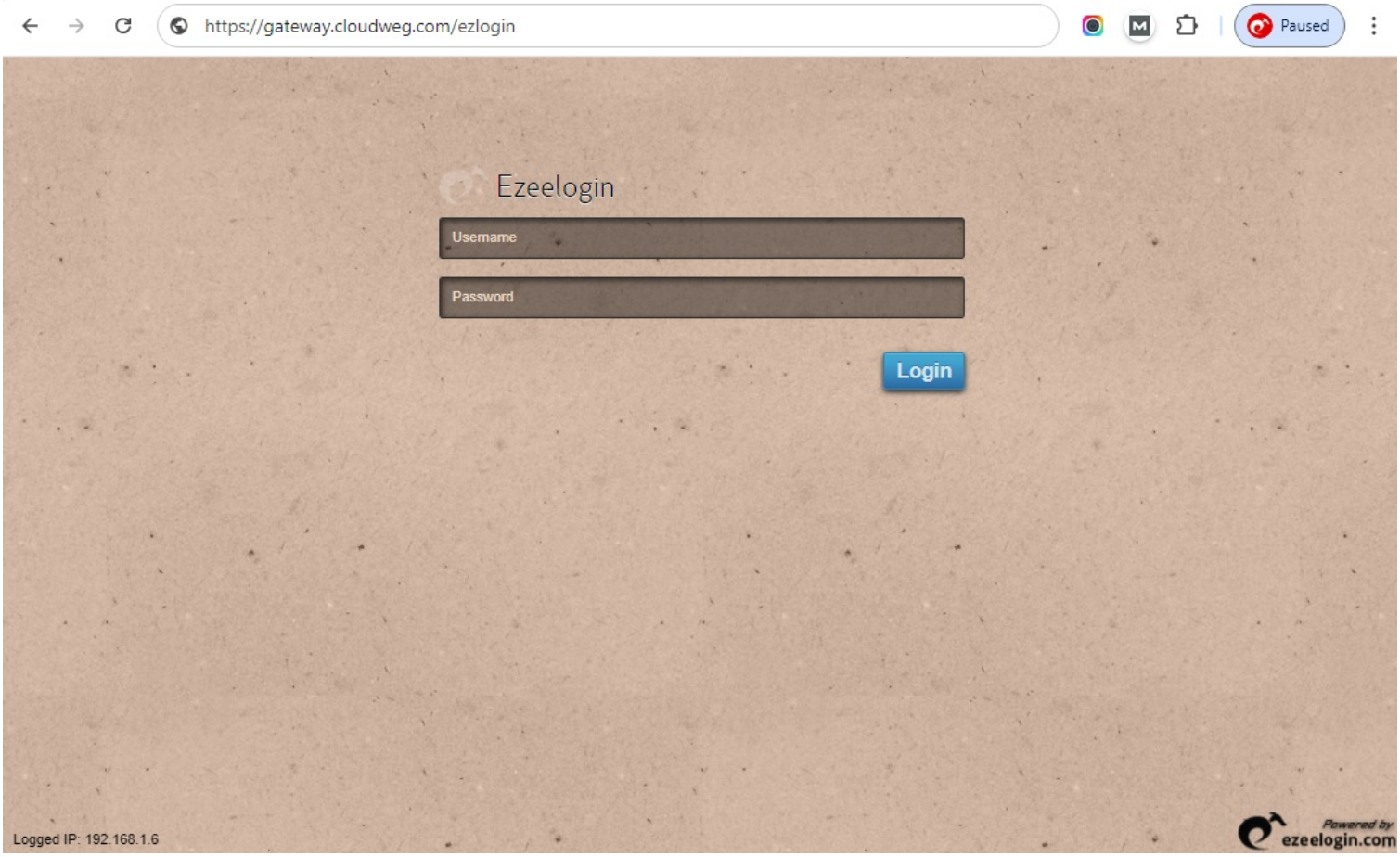
```
root@gateway ~]# vim /usr/local/etc/ezlogin/ez.conf

host_url  http://gateway.cloudweg.com
cookie_match_ip 0
```

If you have enabled **HTTPS** you should add **host_url https://your_domain_name**

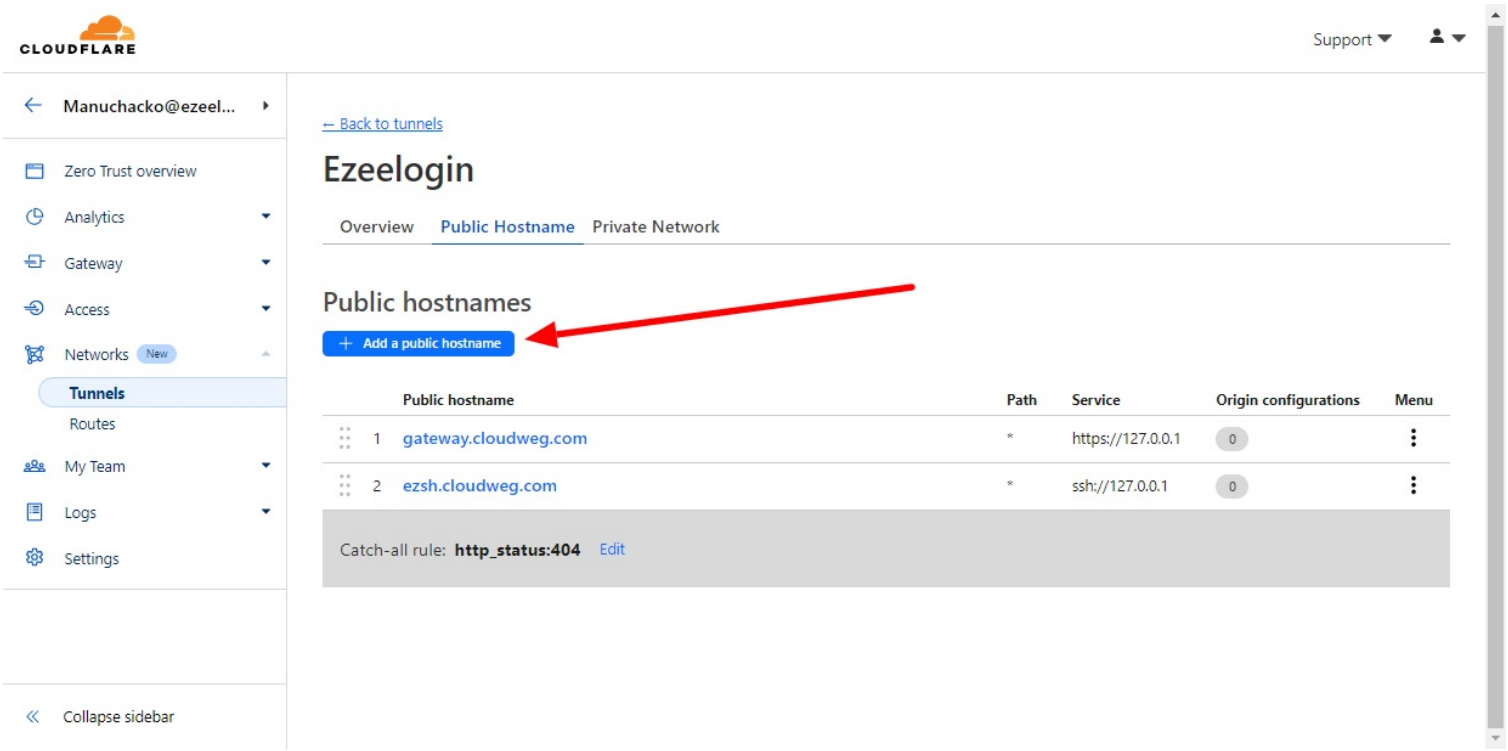
Now you can access Ezeelogin GUI via **Cloudflare Zero Trust Network Access**

Access Ezeelogin GUI with the **subdomain** created https://gateway.cloudflare.com



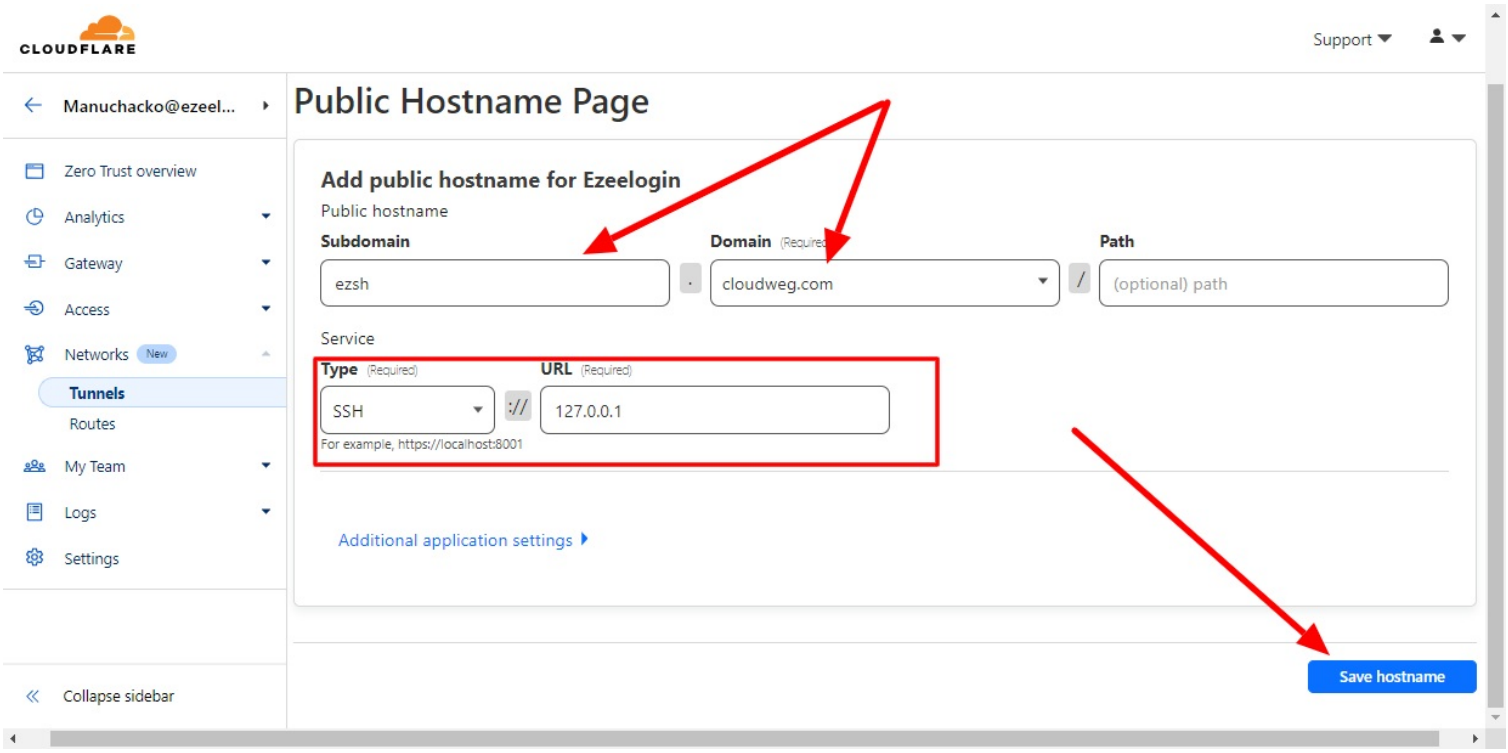
Accessing Ezeelogin Shell via Cloudflare Zero Trust Network Access

1. Add a **Public Hostnames from dashboard > configure > public hostname > Add a Public Hostnames**



Choose a domain from the drop-down menu and specify any subdomain (for example,ezsh.cloudweg.com).

For Service, select **SSH,** enter **127.0.0.1** and click **save** hostname.



2. Connect as a Ezeelogin user from your Terminal via cloudflare Zero Trust Network Access

1. Install Cloudflared on the client machine.
2. Add the following to your SSH configuration file on your machine **~/.ssh/config**:

   Input the following values; replacing **ezsh.cloudweg.com** with the hostname you created. Edit **vim ~/.ssh/config**

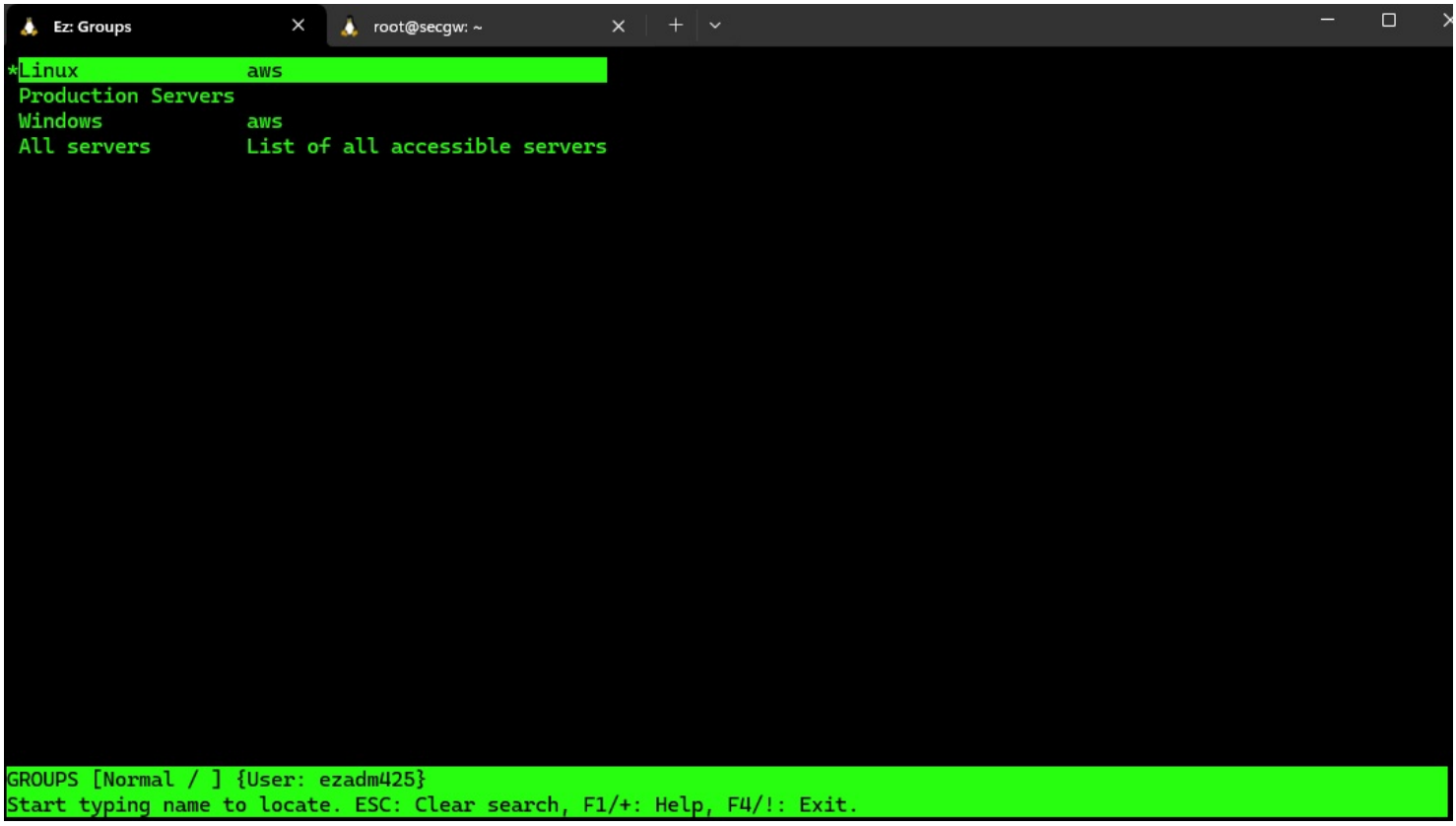
```
Host ezsh.cloudweg.com

ProxyCommand /usr/local/bin/cloudflared access ssh --hostname %h
```

   The cloudflared path may be different depending on your OS and package manager. For example, if you installed cloudflared on macOS with Homebrew, the path is /opt/homebrew/bin/cloudflared

3. You can now test the connection by running a command to acess Ezeelogin shell via **zero trust network access(ZTNA)**. Replace **ezsh.cloudweg.com** with the hostname you created.

```
ssh <ezeelogin_username>@ezsh.cloudweg.com
```



Online URL: https://www.ezeelogin.com/kb/article/cloudflare-ztna-for-securing-ssh-access-to-endpoint-devices-720.html