

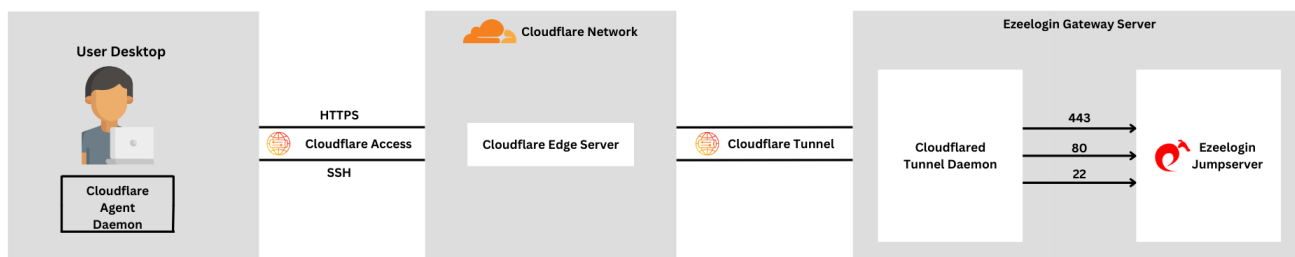
Cloudflare ZTNA for securing SSH access to endpoint devices

720 Manu Chacko July 2, 2024 [Security Compliances, Tweaks & Configuration](#) 721

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

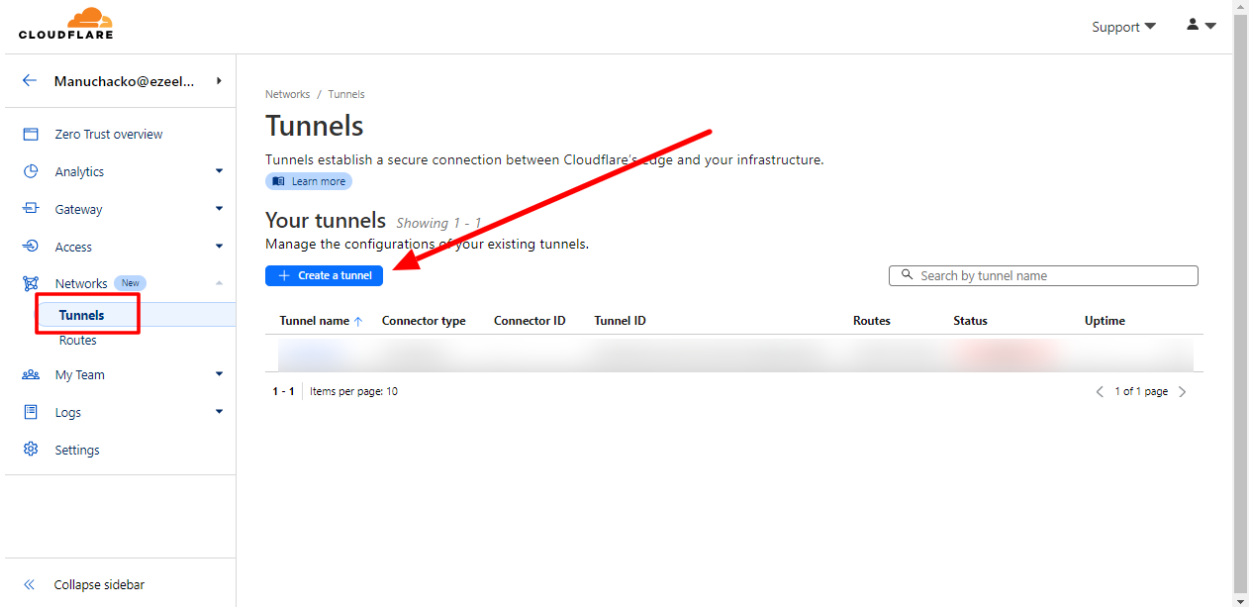
Cloudflare Tunnel can also route applications through a public hostname, allowing users to connect to an SSH server with Cloudflared access. This method requires Cloudflared to be installed on both the server and client machines, as well as an active zone on Cloudflare. The traffic is proxied over this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

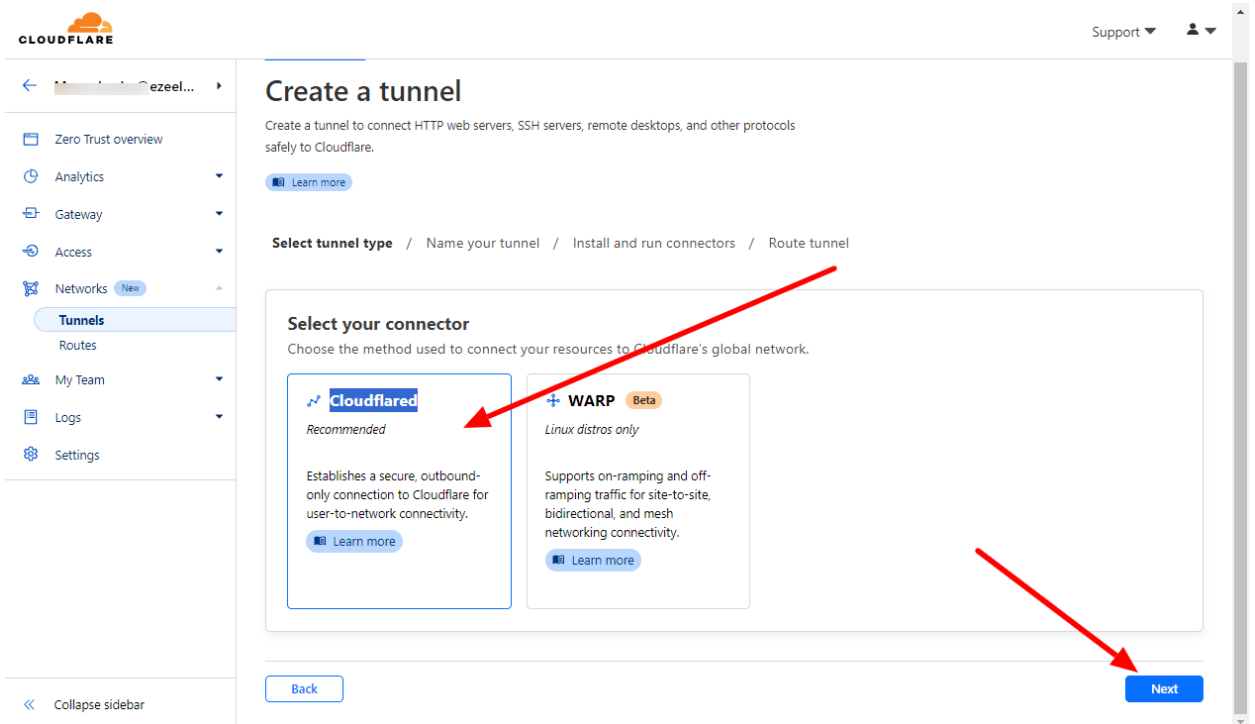


1. Connect the server to Cloudflare

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**

Cloudflare Support

Manuchacko@ezeel... [-- Back to Tunnels](#)

Create a tunnel

Create a tunnel to connect HTTP web servers, SSH servers, remote desktops, and other protocols safely to Cloudflare.

[Learn more](#)

Select tunnel type / **Name your tunnel** / Install and run connectors / Route tunnel

Name your tunnel

Use a descriptive name based on the network you want to connect. We recommend creating only one tunnel for each network.

Tunnel name (Required)

Ezeelogin

[Back](#) [Save tunnel](#)

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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:

Cloudflare Support

Configure

Select tunnel type / Name your tunnel / **Install and run connectors** / Route tunnel

Choose your environment

Choose an operating system:

Windows Mac **Debian** Red Hat Docker

Choose an architecture:

64-bit 32-bit **arm64-bit** arm32-bit

Install and run a connector

To connect your tunnel to Cloudflare, copy-paste one of the following commands into a terminal window. Remotely managed tunnels require that you [install cloudflared 2022.03.04 or later](#).

Store your token carefully. This command includes a sensitive token that allows the connector to run. Anyone with access to this token will be able to run the tunnel.

If you don't have cloudflared installed on your machine:

```
curl -L --output cloudflared.deb
https://github.com/cloudflare/cloudflared/releases/latest/download/cloudflared-linux-amd64.deb &&
$ sudo dpkg -i cloudflared.deb &&
sudo cloudflared service install eyJhIjoizj...
```

If you already have cloudflared installed on your machine:

```
sudo cloudflared
service install
eyJhIjoizj...
```

« Collapse sidebar

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

Install and run a connector

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Store your token carefully. This command includes a sensitive token that allows the connector to run. Anyone with access to this token will be able to run the tunnel.

If you don't have cloudflared installed on your machine:

```
curl -L --output cloudflared.deb https://github.com/cloudflare/cloudflared/releases/latest/download/cloudflared-linux-amd64.deb &&
sudo dpkg -i cloudflared.deb &&
sudo cloudflared service install eyJhIjoizj...
```

If you already have cloudflared installed on your machine:

```
sudo cloudflared service install eyJhIjoizj...
```

[View Frequently Asked Questions](#)

Connector ID	Status	Version
6816890c-5c4c-4f20-a883-0187dee8281e	Connected	2024.6.1

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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.

Route Traffic

Select tunnel type / Name your tunnel / Install and run connectors / **Route tunnel**

Route traffic by adding a public hostname or a private network to your tunnel. You can always add more hostnames or networks at a later time.

Protect your resource by adding an Access policy under [Access > Applications > Self-hosted](#).

Public Hostnames Private Networks

Add public hostname for Ezeelogin

Public hostname

Subdomain gateway **Domain** (Required) cloudweg.com **Path** (optional) path

Service

Type (Required) HTTPS **URL** (Required) 127.0.0.1
For example, <https://localhost:8001>

[Additional application settings](#)

[Back](#) [Save tunnel](#)

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

Tunnels

Tunnels establish a secure connection between Cloudflare's edge and your infrastructure. [Learn more](#)

Your tunnels Showing 1 - 1
Manage the configurations of your existing tunnels.

[+ Create a tunnel](#)

Search by tunnel name

Tunnel name	Connector type	Connector ID	Tunnel ID	Routes	Status	Uptime
Ezeelogin	cloudflared	6816890c-5c4c-4f20-a883-0187dee8281e	fa53f8be-bcb8-48e6-a450-3efaf9212773	gateway	HEALTHY	37 minutes

1 - 1 | Items per page: 10 < 1 of 1 page >

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

Cloudflare Tunnels overview page. The page shows a list of tunnels with columns for Tunnel name, Connector type, Connector ID, Tunnel ID, Routes, Status, and Uptime. A red arrow points from the 'Configure' button in the dropdown menu of the 'Ezeelogin' tunnel to the 'Public Hostname' tab in the next screenshot.

Tunnel name	Connector type	Connector ID	Tunnel ID	Routes	Status	Uptime
Ezeelogin	cloudflared	6816890c-5c4c-4f20-a883-0187dee8281e	fa53f8be-bcb8-48e6-a450-3efaf9212773	gateway/4	HEALTHY	43 minutes

Cloudflare Tunnels configuration page for 'Ezeelogin'. The 'Public Hostname' tab is selected. The page shows a table of public hostnames with columns for Public hostname, Path, Service, Origin configurations, and Menu. A red arrow points from the 'Public Hostname' tab in the previous screenshot to the 'Public hostname' column header in this screenshot.

Public hostname	Path	Service	Origin configurations	Menu
1 gateway.cloudweg.com	*	https://127.0.0.1	0	

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

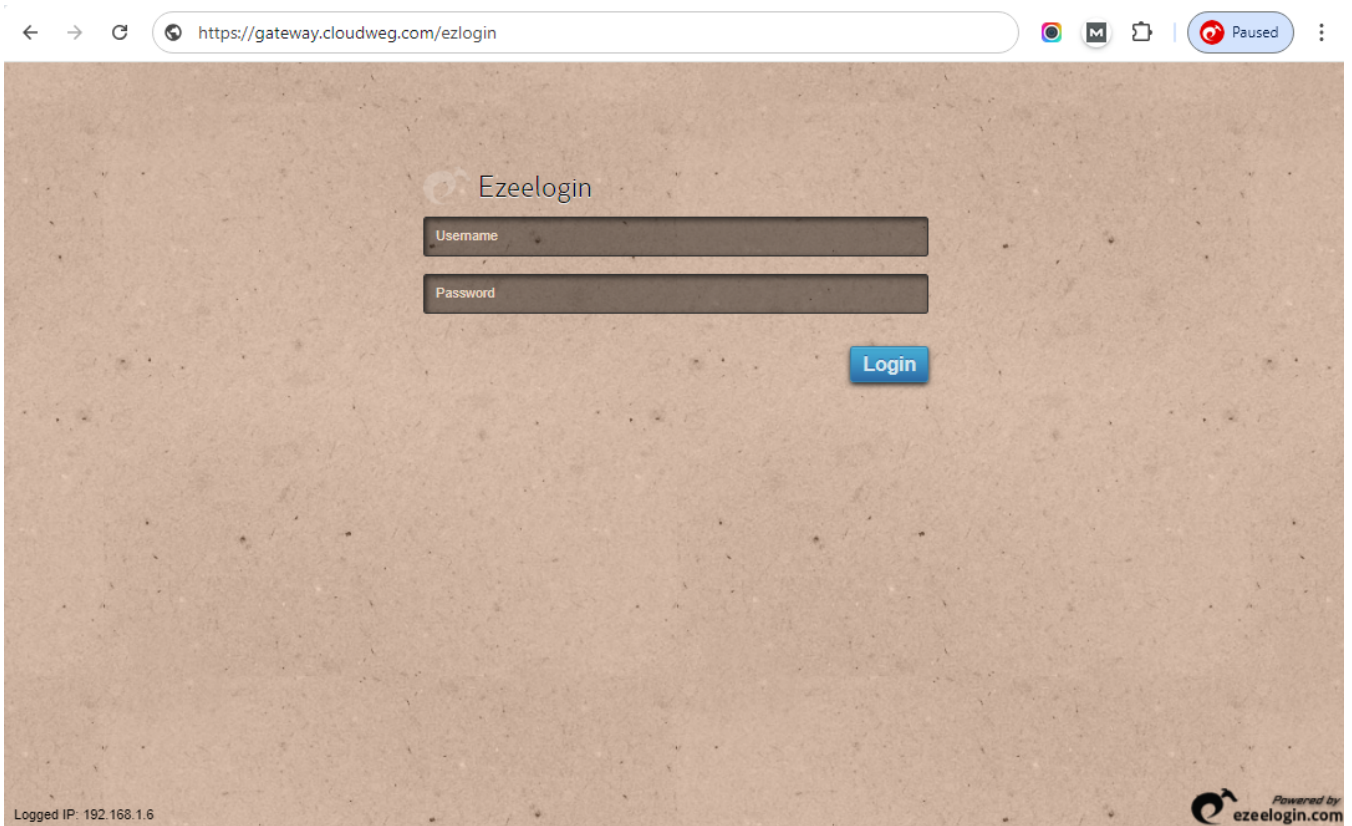
```
root@gateway ~]# vim /usr/local/etc/ezlogin/ez.conf

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**

Cloudflare logo in the top left. The user is logged in as Manuchacko@ezeel... The page title is 'Ezeelogin' with tabs for 'Overview', 'Public Hostname', and 'Private Network'. The 'Public hostnames' section has a red arrow pointing to the '+ Add a public hostname' button. Below it is a table:

	Public hostname	Path	Service	Origin configurations	Menu
1	gateway.cloudweg.com	*	https://127.0.0.1	0	⋮
2	ezsh.cloudweg.com	*	ssh://127.0.0.1	0	⋮

Below the table, it says 'Catch-all rule: http_status:404 Edit'.

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.

Cloudflare logo in the top left. The user is logged in as Manuchacko@ezeel... The page title is 'Public Hostname Page'. The main heading is 'Add public hostname for Ezeelogin'. The form fields are:

- Public hostname: Subdomain (ezsh) and Domain (cloudweg.com)
- Path: (optional) path
- Service: Type (SSH) and URL (127.0.0.1)

A red box highlights the Service Type and URL fields. A red arrow points to the 'Save hostname' button at the bottom right.

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

1.  [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 access Ezeelogin shell via **zero trust network access(ZTNA)**.
Replace **ezsh.cloudweg.com** with the hostname you created.

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

```
Ez: Groups root@secgw: ~
*Linux aws
Production Servers
Windows aws
All servers List of all accessible servers

GROUPS [Normal / ] {User: ezadm425}
Start typing name to locate. ESC: Clear search, F1/+: Help, F4/!: Exit.
```

Online URL:

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