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## Cloudflare Tunneling (Cloudflared)

## Pre-requisites

- 1. Cloudflare Account
- 2. Domain Name
- 3. EC2 Instance

We will start the Cloudflare tunnel and access the Nginx page.

## Steps

- 1. SSH to EC2 instance.
- 2. Run the following commands to install & start the nginx:

```
sudo apt update
sudo apt install -y nginx
sudo nginx
```

3. Run the following commands to install Cloudflared:

```
curl -fsSL
https://github.com/cloudflare/cloudflared/releases/latest/download/cloudflared-
linux-amd64 -o cloudflared
chmod +x cloudflared
sudo mv cloudflared /usr/local/bin/
```

4. Authenticate Cloudflare Tunnel by running:

```
cloudflared tunnel login
```

- Copy & paste the browser URL and select the domain name. Thus, the certificate will be installed.
  - 5. Run the following command to create the tunnel and list its *tunnel-id*. Note the *tunnel-id* in the notepad as we will need it in further steps.

```
cloudflared tunnel create dev-example cloudflared tunnel list
```

6. Run the following commands to configure the tunnel:

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```
mkdir -p ~/.cloudflared
vim ~/.cloudflared/config.yml
```

7. Copy the following configuration in the above-opened vim editor:

```
tunnel: <tunnel-id> # Replace with your tunnel ID
credentials-file: /home/user/.cloudflared/<tunnel-id>.json
originRequest: # Top-level configuration
  connectTimeout: 30s

ingress:
  - hostname: dev.example.com
  service: http://localhost:80 # Change port based on your web server
```

Substitute the *<tunnel-id>* with the above noted **tunnel-id** & *<dev.example.com>* with your domain name.

8. Validate the tunnel ingress rules by running the following:

```
cloudflared tunnel ingress validate
cloudflared tunnel ingress rule https://dev.example.com
```

Replace *<dev.example.com>* with your domain name.

9. Now, run the tunnel:

```
cloudflared tunnel run dev-example
```

- 10. Now head to Cloudflare Console and open your domain.
- 11. Select the **DNS** option from the sidebar
  - Add the DNS Record of *Type* **CNAME**.
  - In *Name*, provide **dev**
  - In *Target* add < *tunnel-id*>.cfargotunnel.com
  - Enable the *Proxy status* to **orange cloud** and save the record.
- 12. Now, try accessing the domain name on the browser and the nginx page will be loaded.