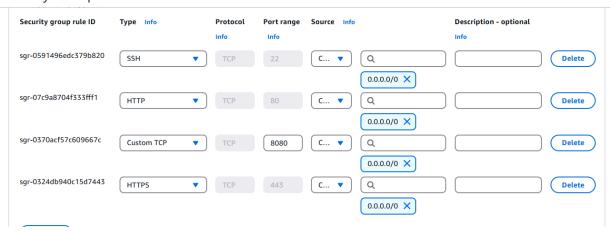
Jenkins on AWS

Create AWS instance choose AMI which is ubuntu Security Group Inbound Rules:



Connect to your Instance:

Follow This documentation for Jenkins Installation:

https://www.jenkins.io/doc/book/installing/linux/

Install Java:

```
sudo apt update
sudo apt install fontconfig openjdk-17-jre
java -version
openjdk version "17.0.13" 2024-10-15
OpenJDK Runtime Environment (build 17.0.13+11-Debian-2)
OpenJDK 64-Bit Server VM (build 17.0.13+11-Debian-2, mixed mode, sharing)
```

Install Jenkins:

```
sudo wget -0 /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install jenkins
```

Start enable and check status of your jenkins

```
sudo systemctl enable jenkins
```

```
sudo systemctl start jenkins
 sudo systemctl status jenkins
enter cntr+c and close the status.
Use NGinx server and I want to set reverse Proxy
 sudo apt install nginx -y
Edit the jenkins configuration file
 sudo nano /etc/nginx/sites-available/jenkins
 server {
 listen 80;
 server_name your_domain_or_public_ip;
 location / {
 proxy_pass http://localhost:8080;
 proxy_set_header Host $host;
 proxy_set_header X-Real-IP $remote_addr;
 proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
 proxy_set_header X-Forwarded-Proto $scheme;
 }
Here you edit your dns name:
save file using ctrl+o enter and then ctrl+x
Enable configuration by creating a link
 sudo ln -s /etc/nginx/sites-available/jenkins /etc/nginx/sites-enabled/
delete default folder of jenkins
    sudo rm /etc/nginx/sites-enabled/default
Restart Jenkins:
    sudo systemctl restart nginx
Here now you can access your dns without using any port.
Now, access DNS using HTTPS Protocol:
Install Cert bort
No we want to generate certificate for our DNS but this DNS won't work directly. So we will
use free DNS service.
you can DNS service and add your domain name and assign IP
```

```
let's say your domain name is sonamsoni.org
edit jenkins config
sudo nano /etc/nginx/sites-available/jenkins
Your code file:
 server {
 listen 80;
 server_name aws-dns-name sonamsoni.org;
 location / {
 proxy_pass http://localhost:8080;
 proxy_set_header Host $host;
 proxy_set_header X-Real-IP $remote_addr;
 proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
 proxy_set_header X-Forwarded-Proto $scheme;
 }
Restart Jenkins again.
sudo certbot --nginx -d sonamsoni.org
you can access Jenkins on https://sonamsoni.org
```