1) Install jenkins and run jenkins on port number 8081.

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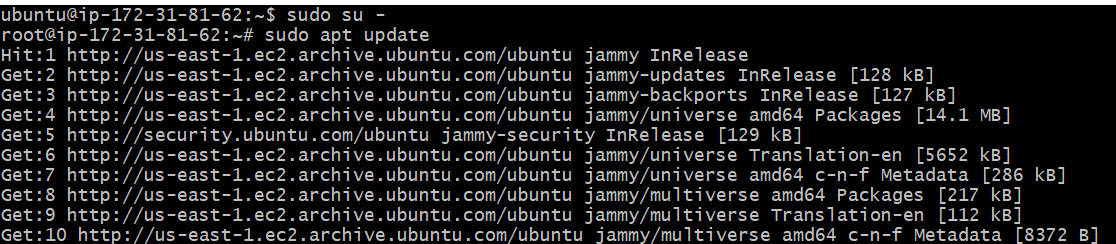
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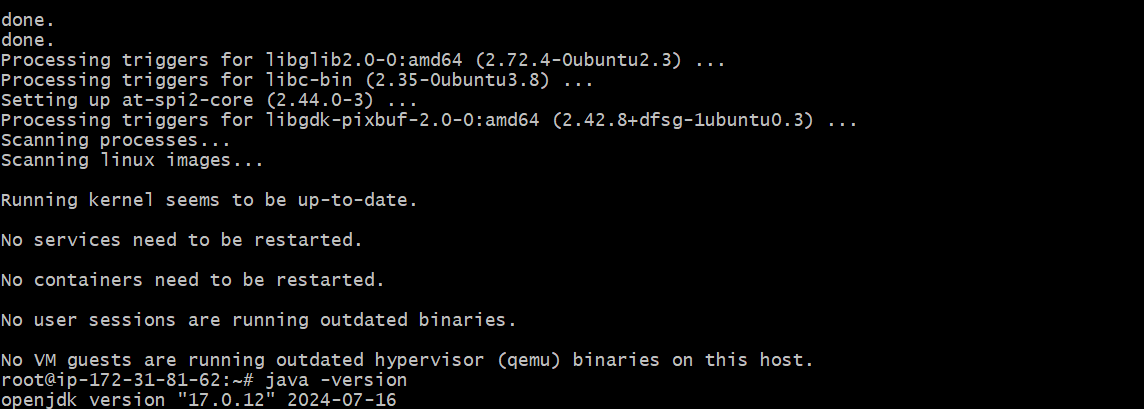
Install Java

sudo apt update

sudo apt install fontconfig openjdk-17-jre

java -version





sudo wget -O /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

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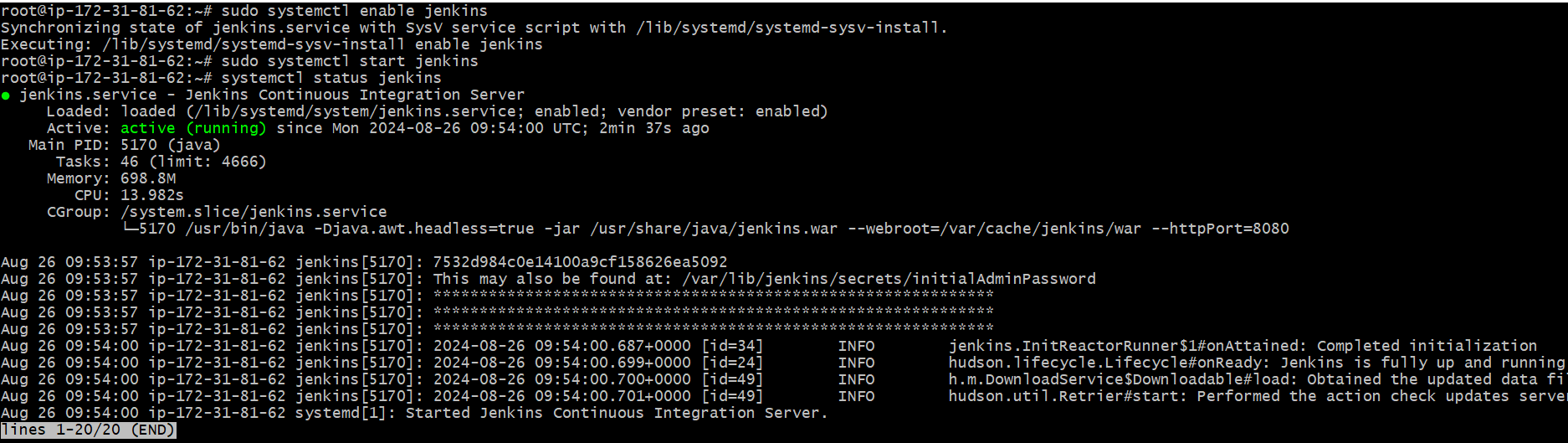
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sudo systemctl enable Jenkins

sudo systemctl start jenkins

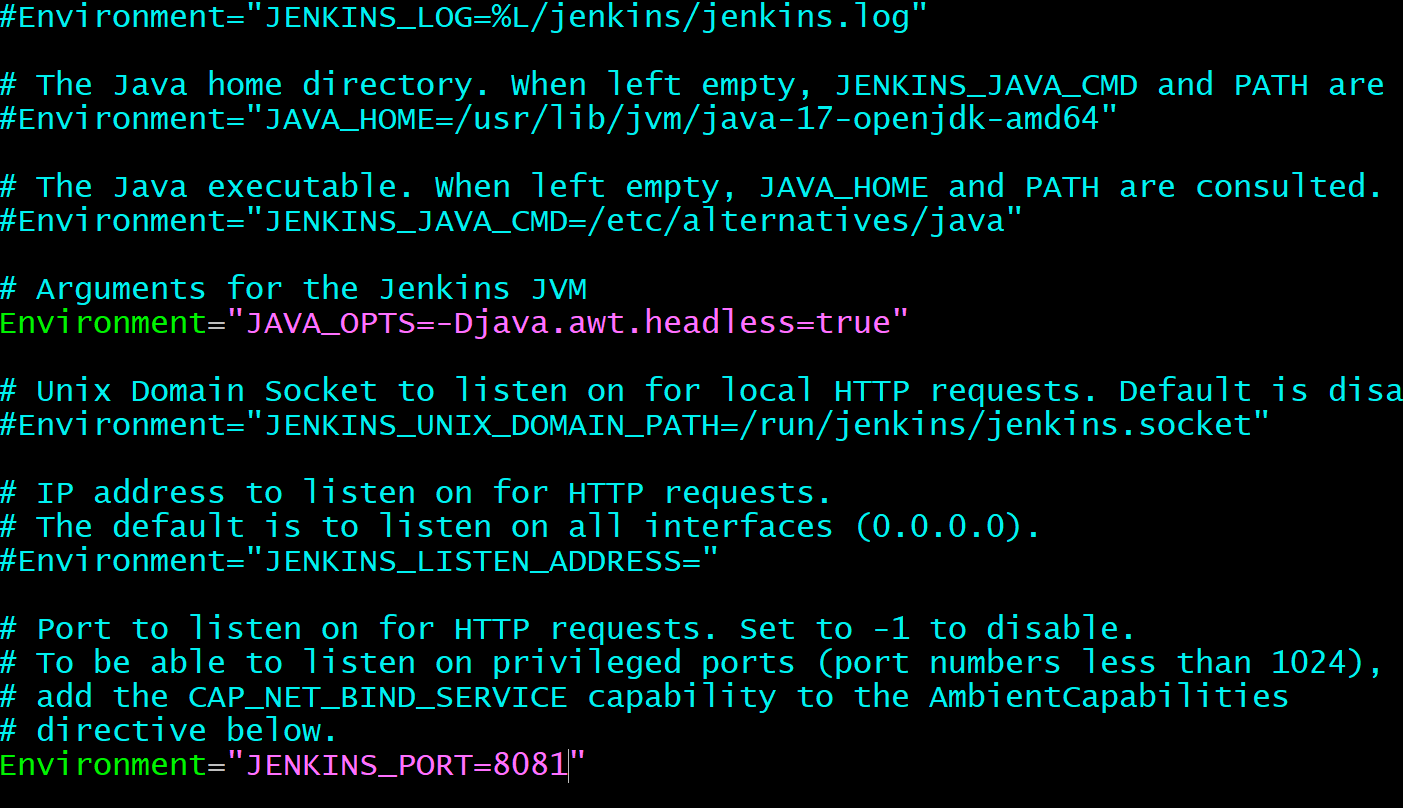


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2) Secure Jenkins server

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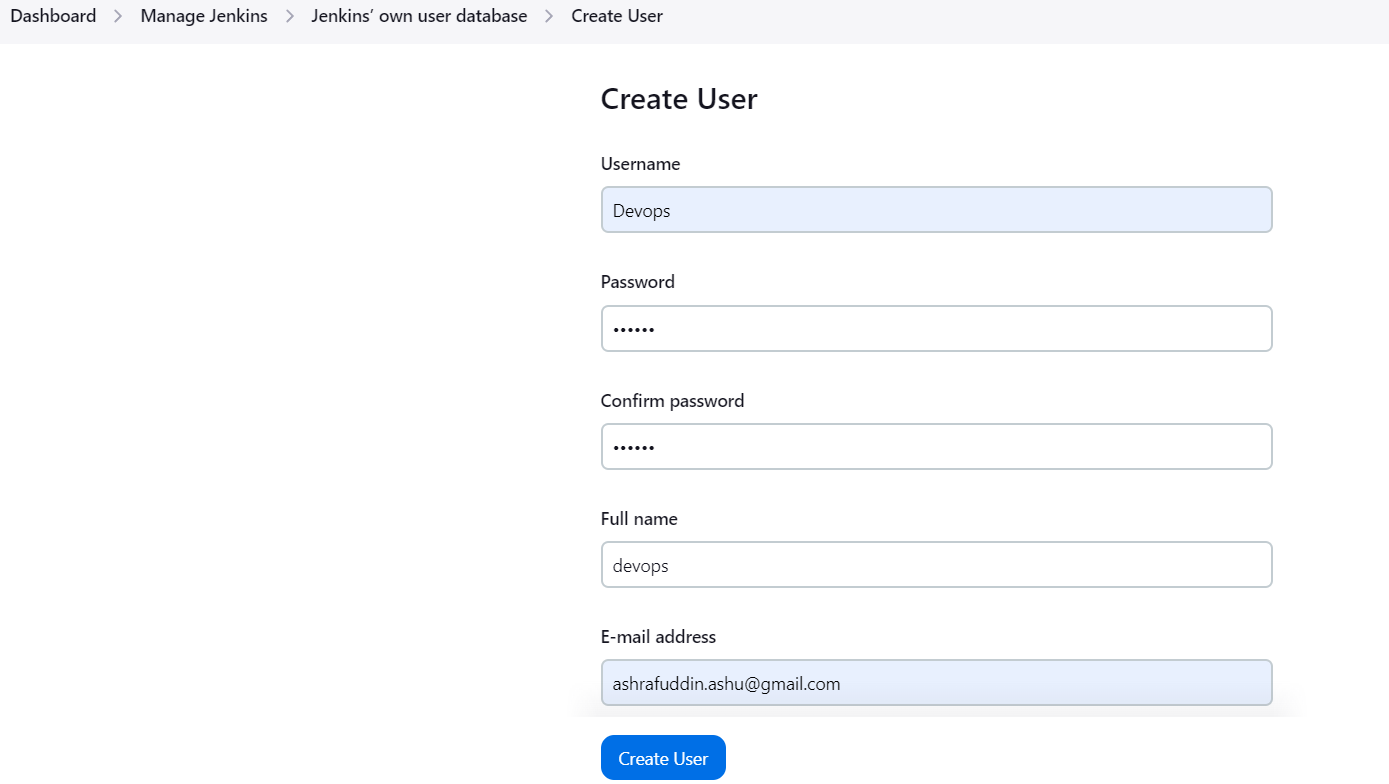
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3) Create users called Devops, Testing in Jenkins with Limited access.

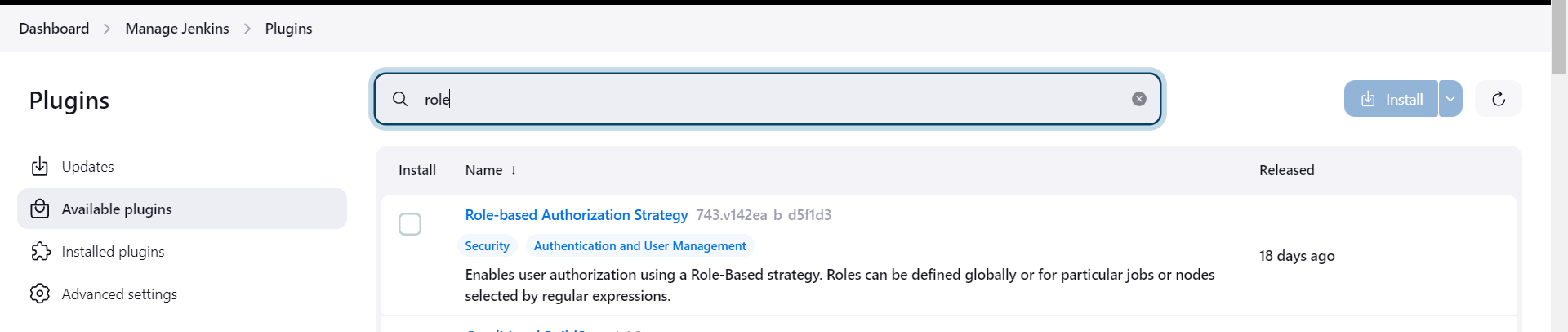
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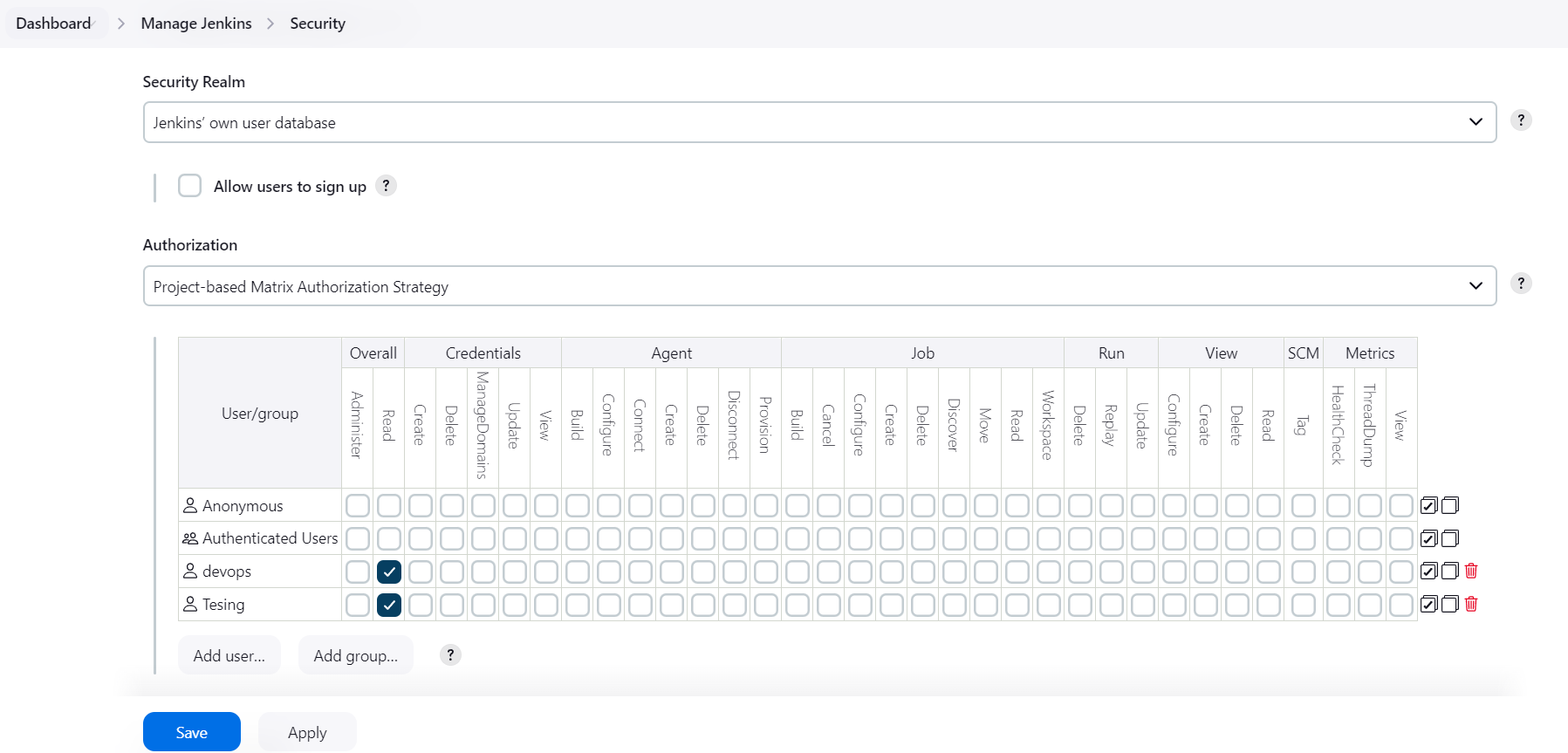
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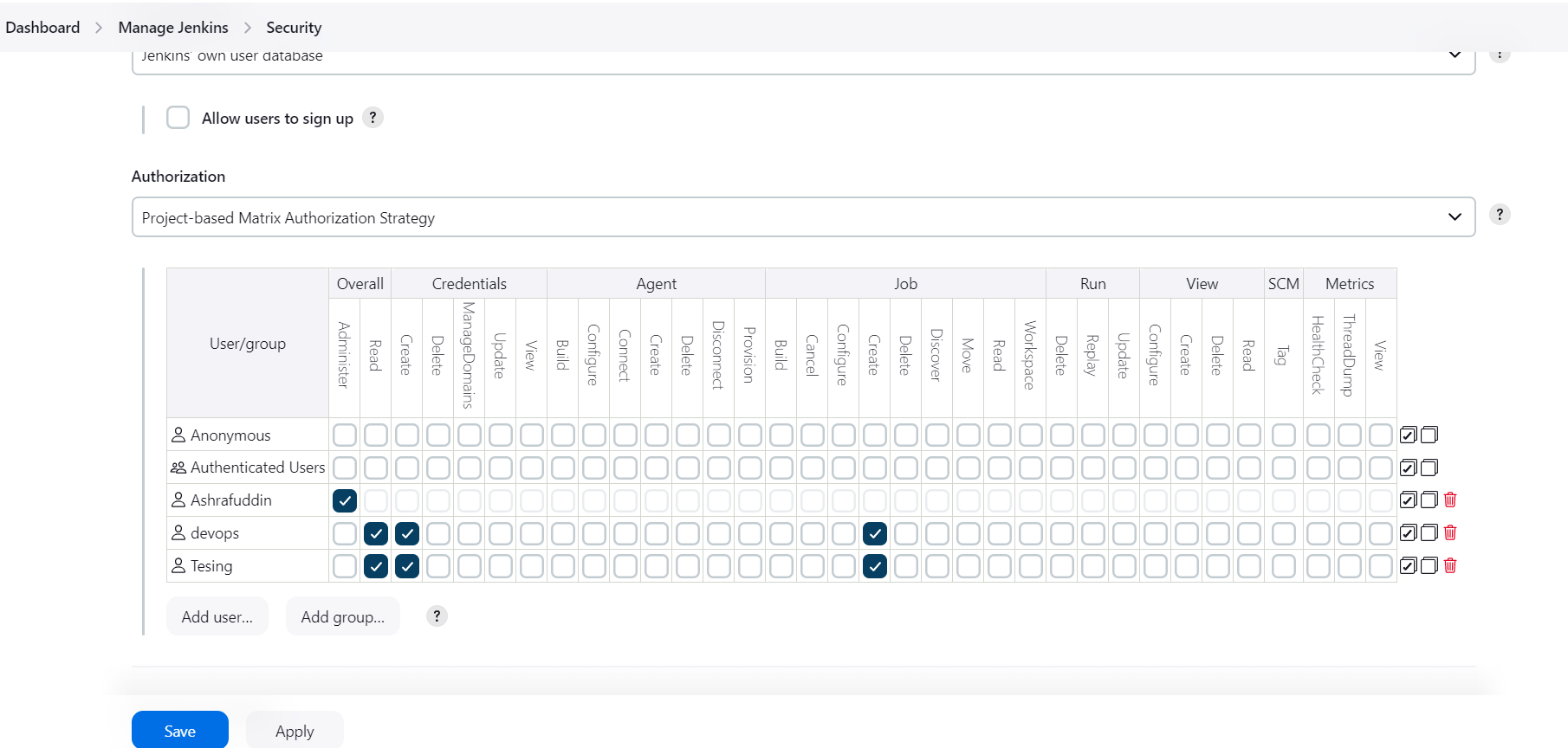
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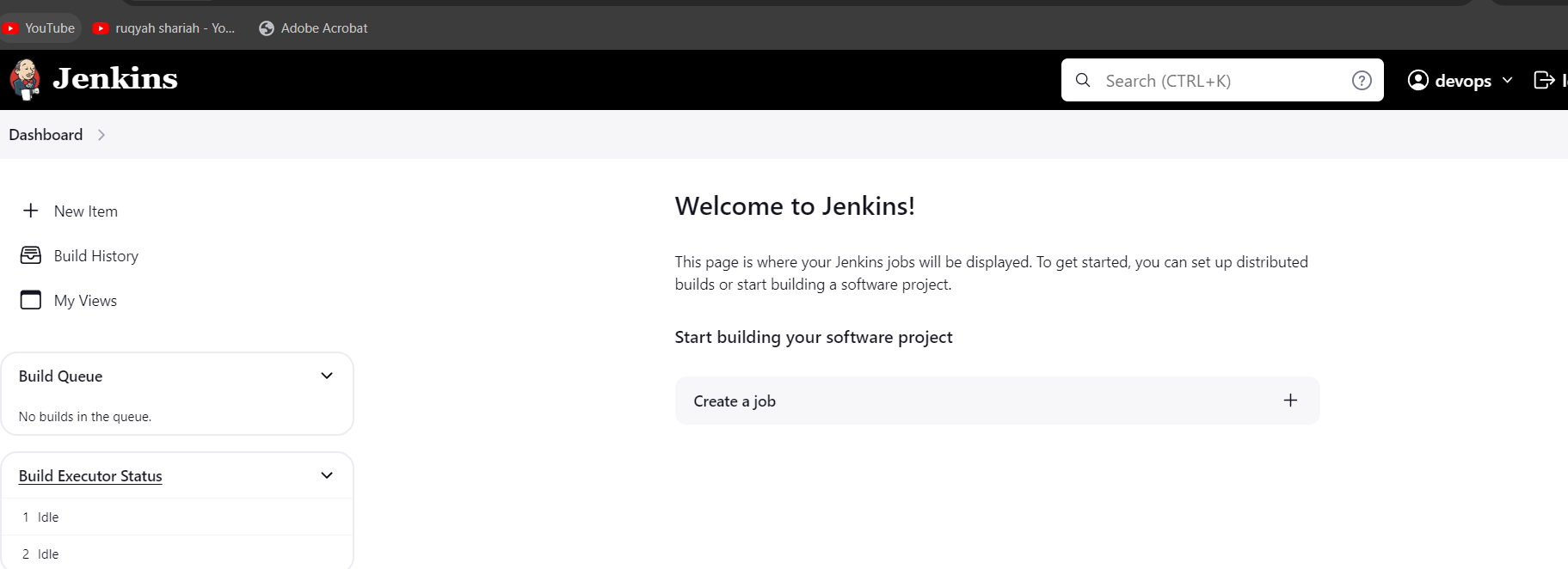


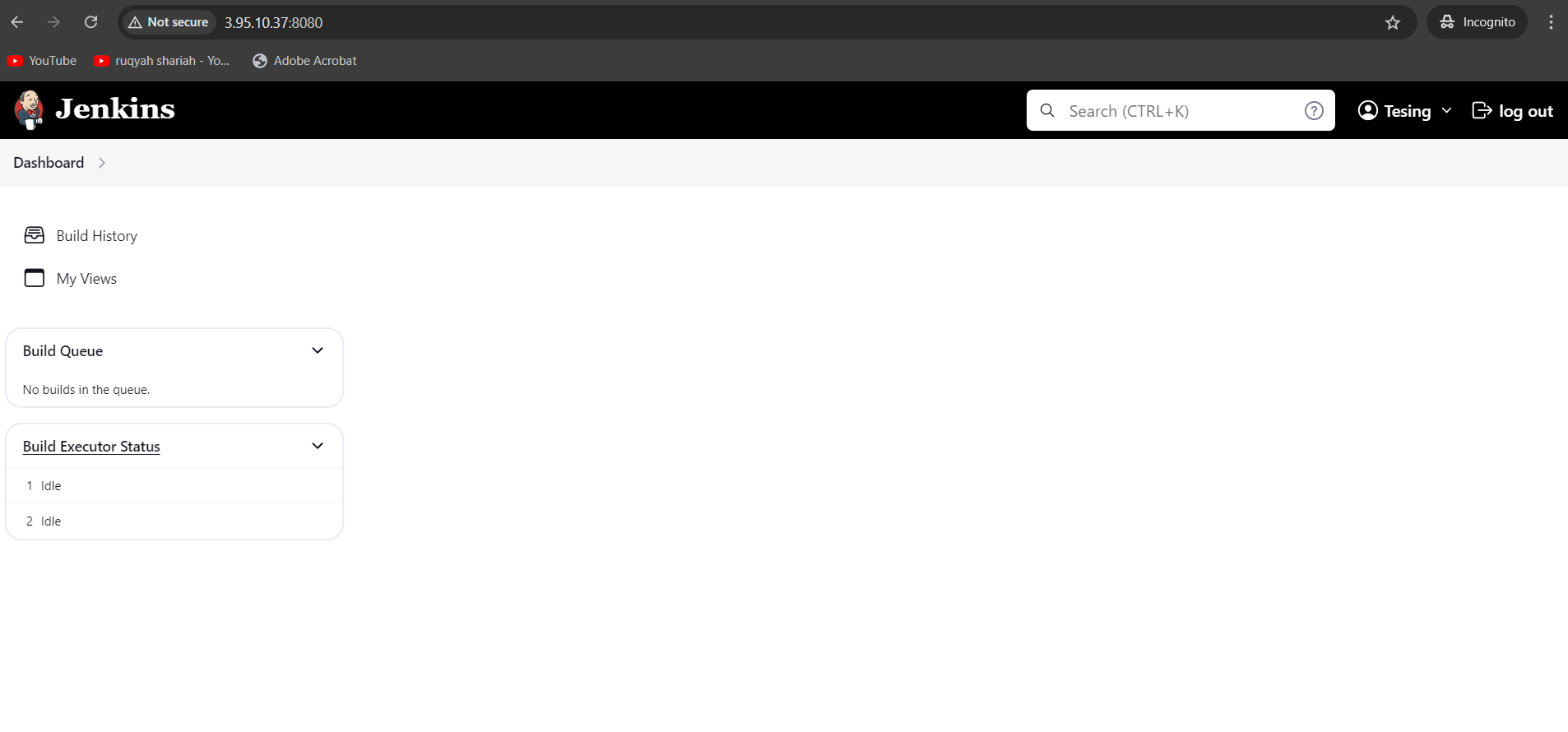
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4) Configure labels and restrict the jobs to execute based on –

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5) Create Three sample jobs using the below URL.

<https://github.com/betawins/Techie_horizon_Login_app.git>

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6) Create one jenkins job using git hub Private repository.

* Create an access token in github
* Goto >account >Settings> Developer Settings> Personal Access Token> Tokens(Classic) – Enter general information and create one token and copy the token id.
* >Goto Jenkins and create credentials add username as github user name and paste access token in the password and enter any random id and save.
* Now you can save it and build.
* and added credentials in jenkins.

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Now to git hub account setings

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