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

Frst launch a server using Ubuntu image(anything u can use) keep family as medium to keep Jenkins fast change root user

Now go to Jenkins official documentation

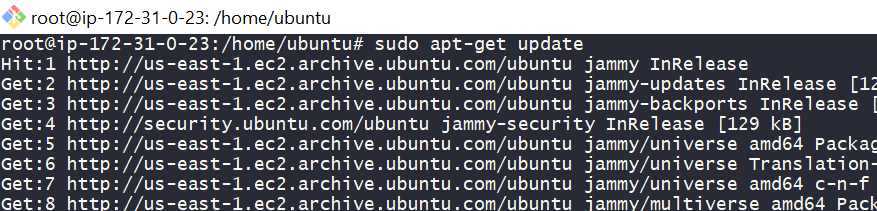
Install java—pre requisite

Install Jenkins

Enable Jenkins

Start Jenkins

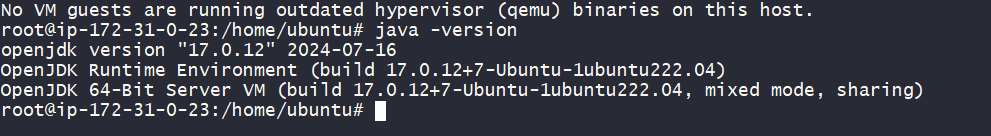
Sudo apt-get update



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/jenkins.io-2023.key**

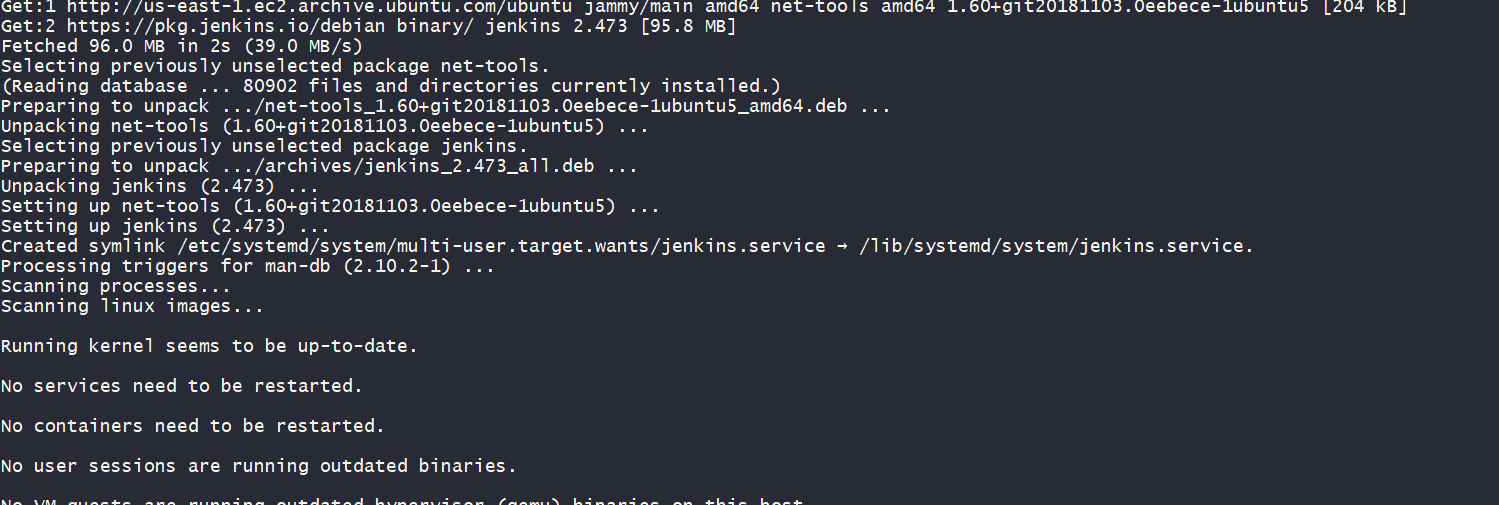
**echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \**

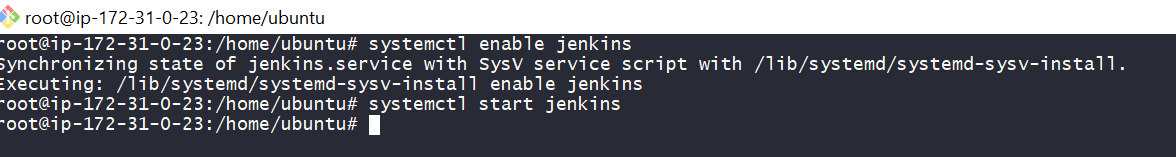
**https://pkg.jenkins.io/debian binary/ | sudo tee \**

**/etc/apt/sources.list.d/jenkins.list > /dev/null**

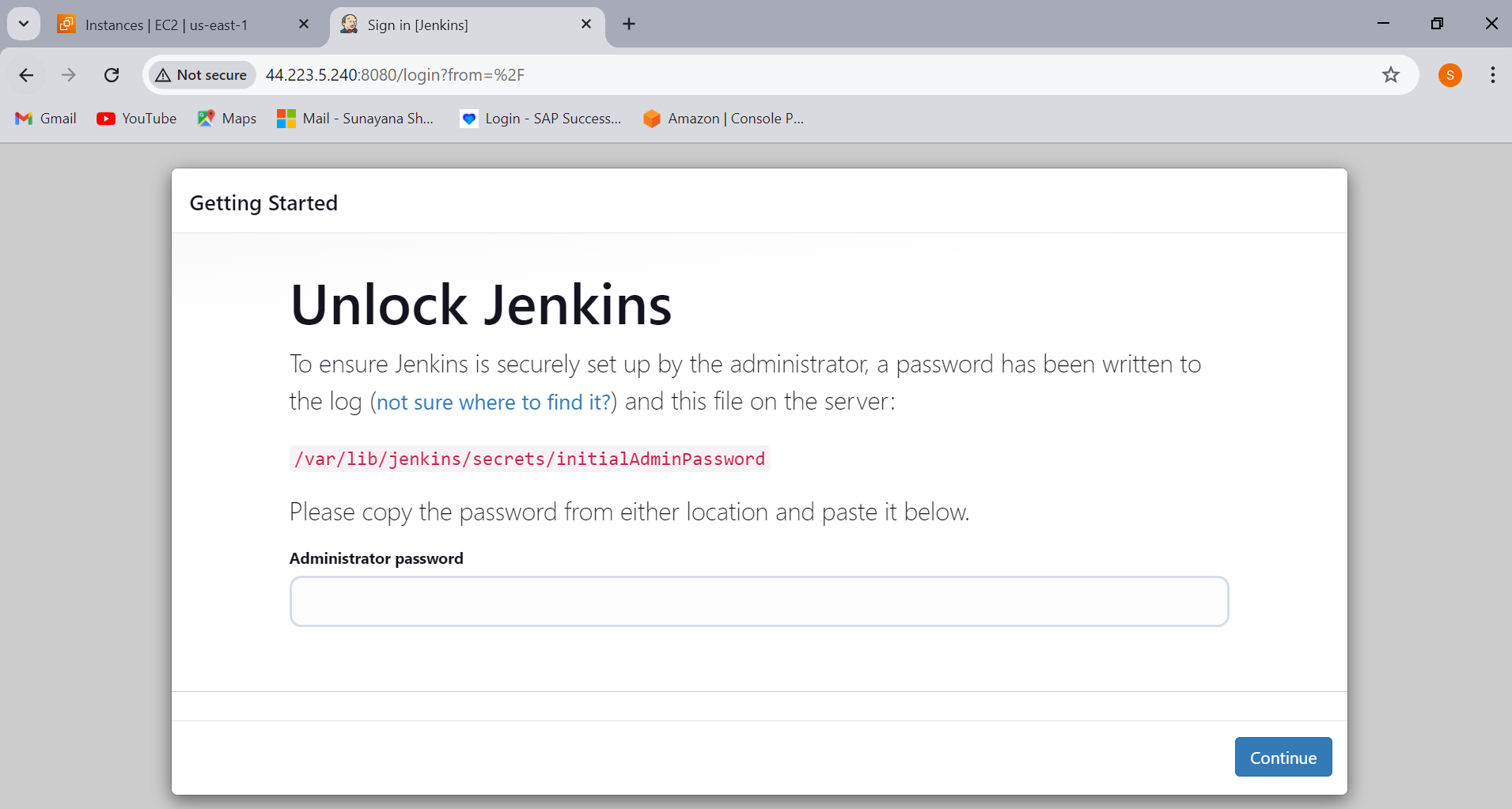
**sudo apt-get update**

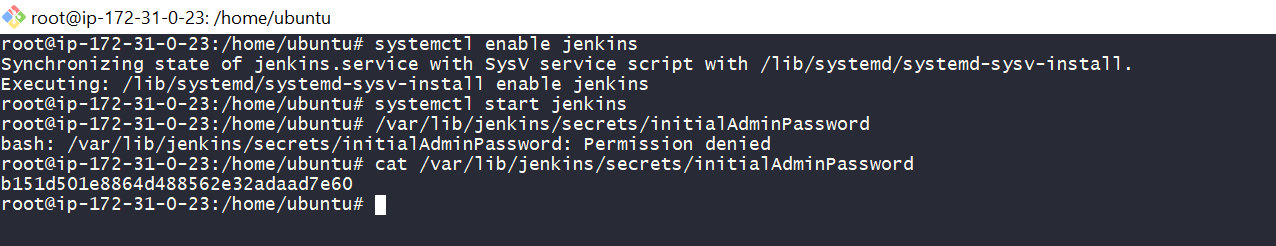
**sudo apt-get install jenkins**



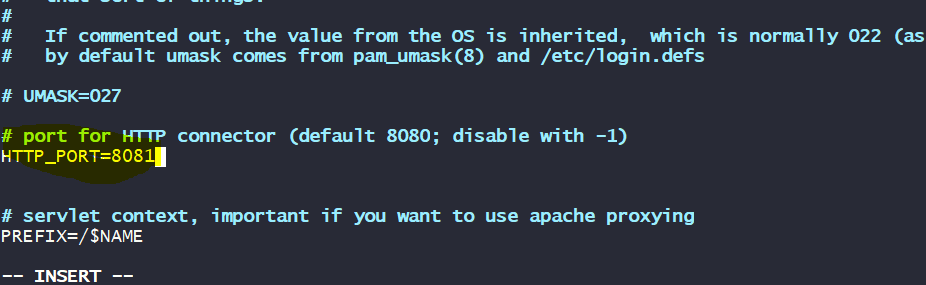


**Jenkins got installed in 8080 prt number**





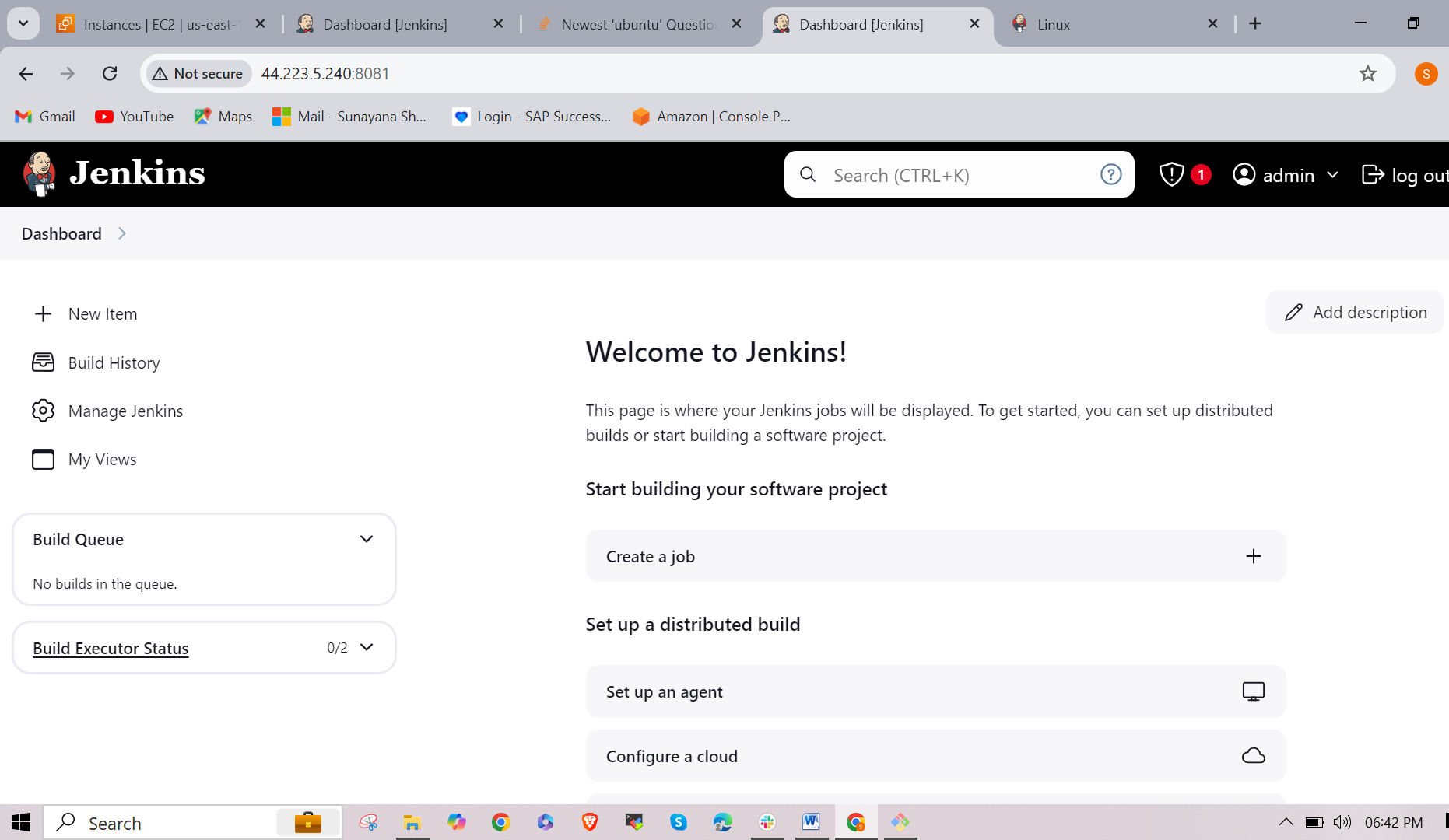
**Change port number here**



**Cat /etc/default/Jenkins >> chane port numer**

**Again vi /lib/system/system/jenkin.service >> change port number again**

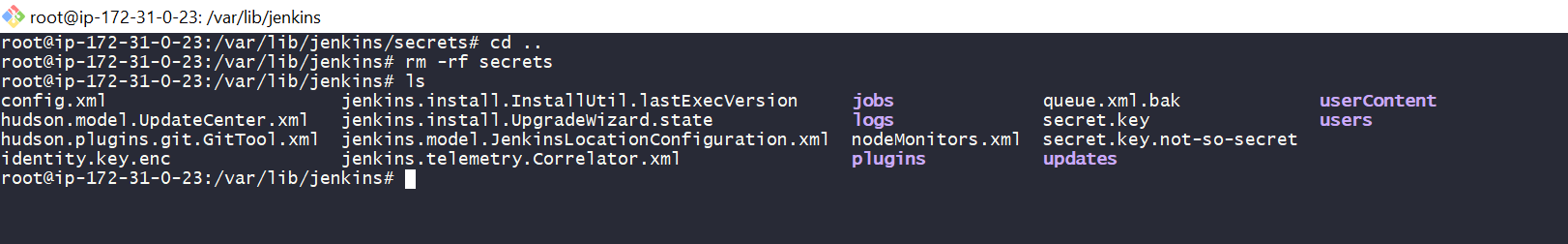
**Systemctl start Jenkins**

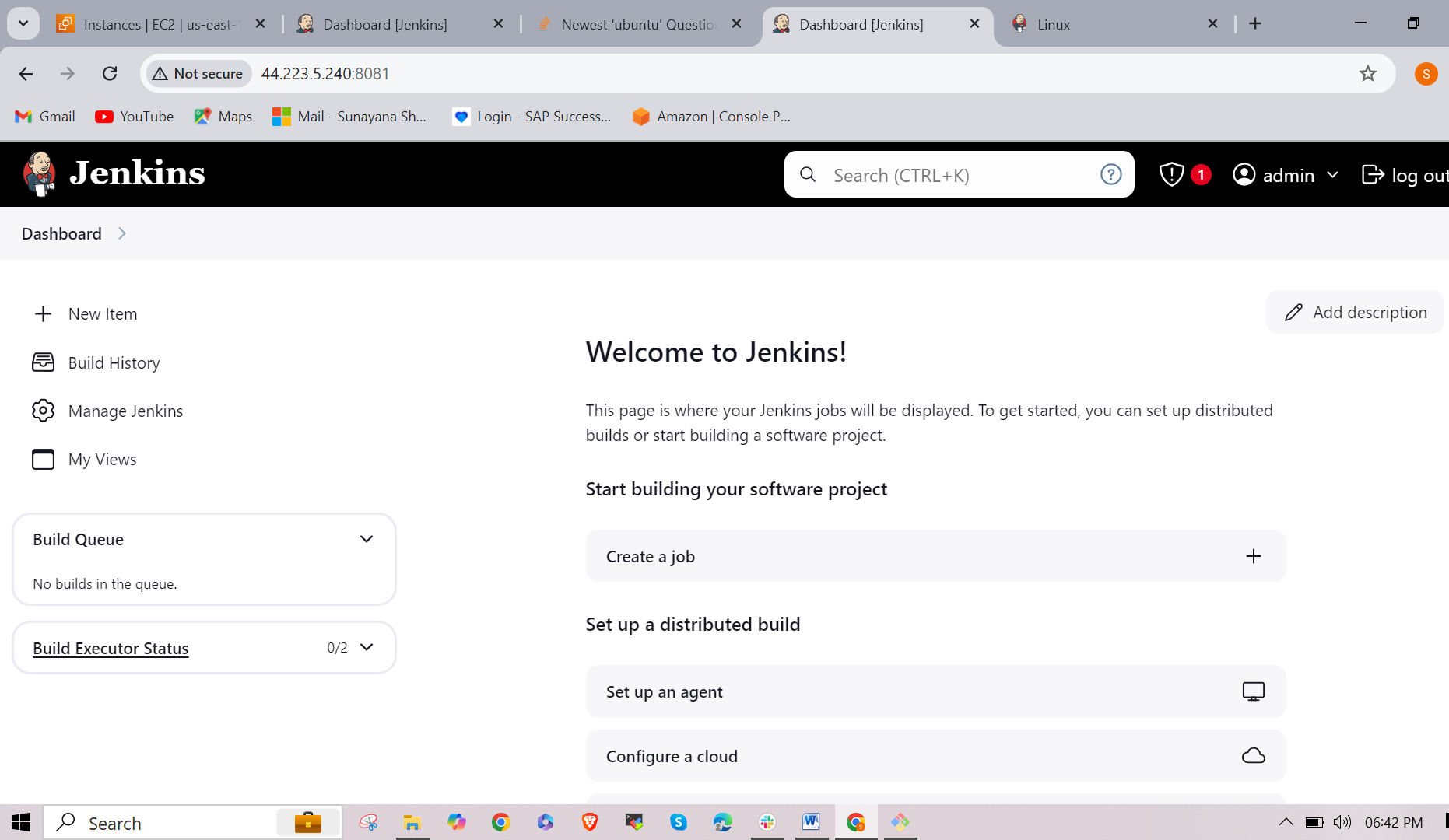


1. **Secure Jenkins server**

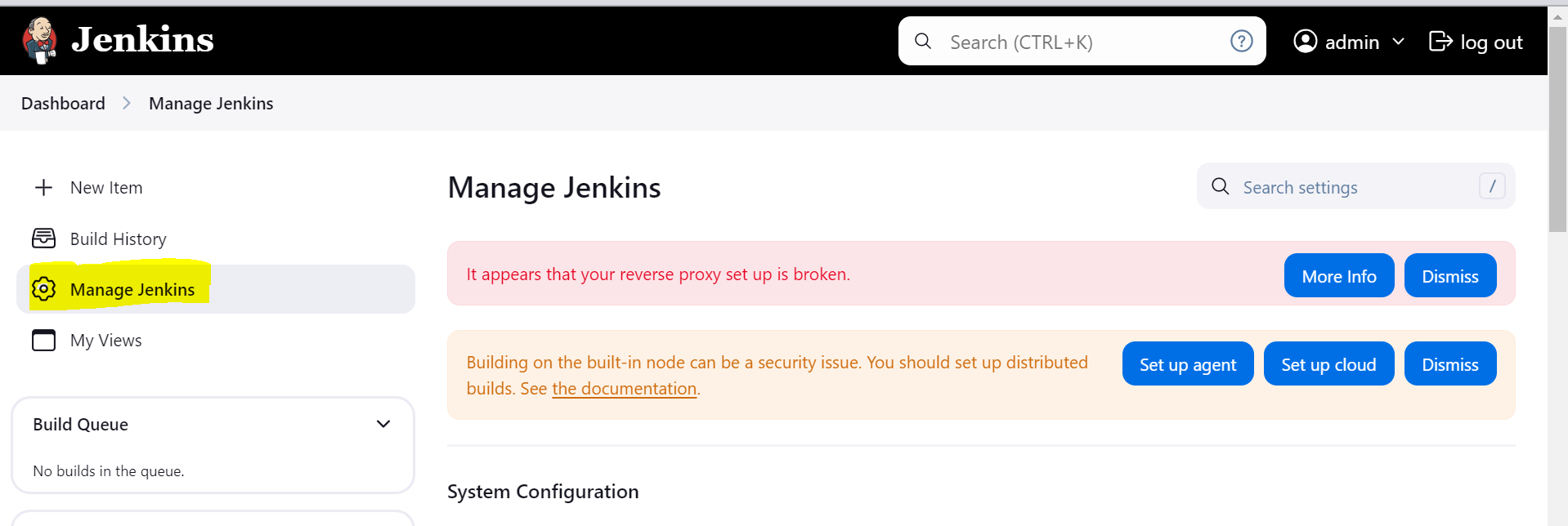
Change the password

Delete initaladminpassword file form /var/lib/Jenkins/secrets/initialAdminPassword



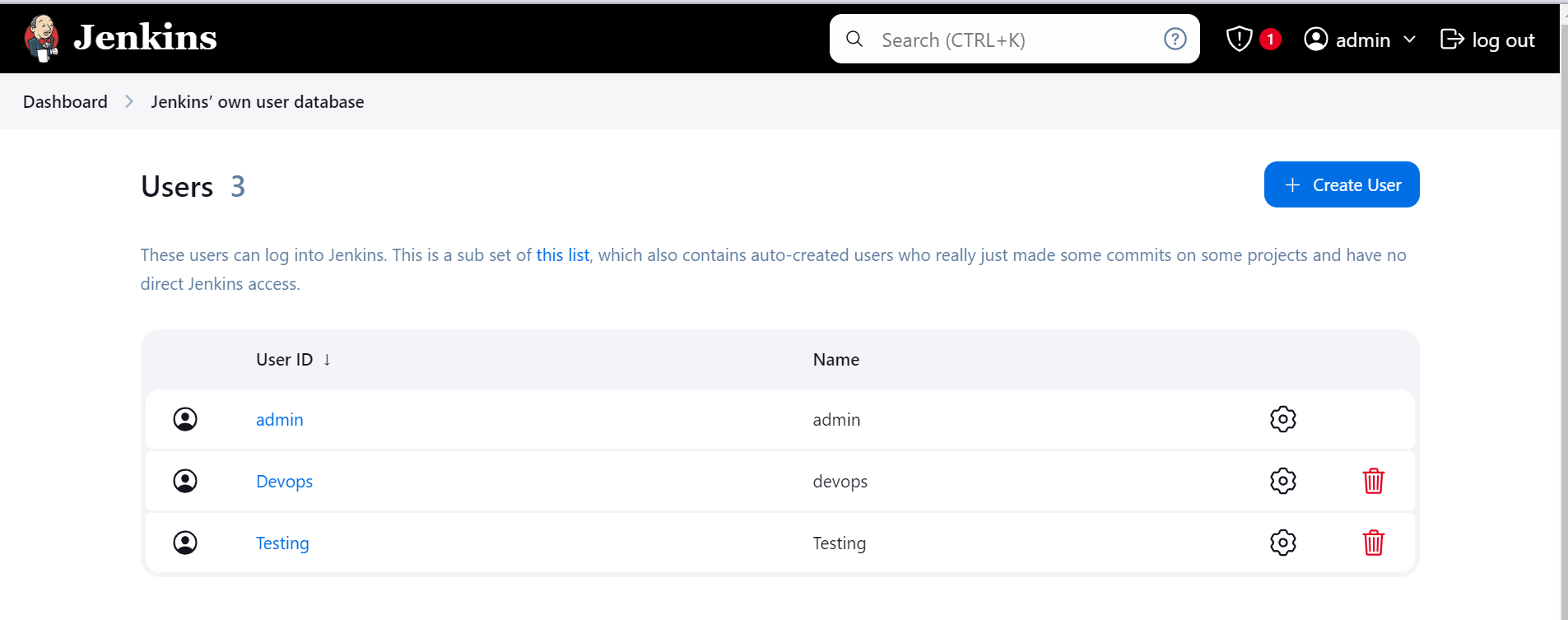


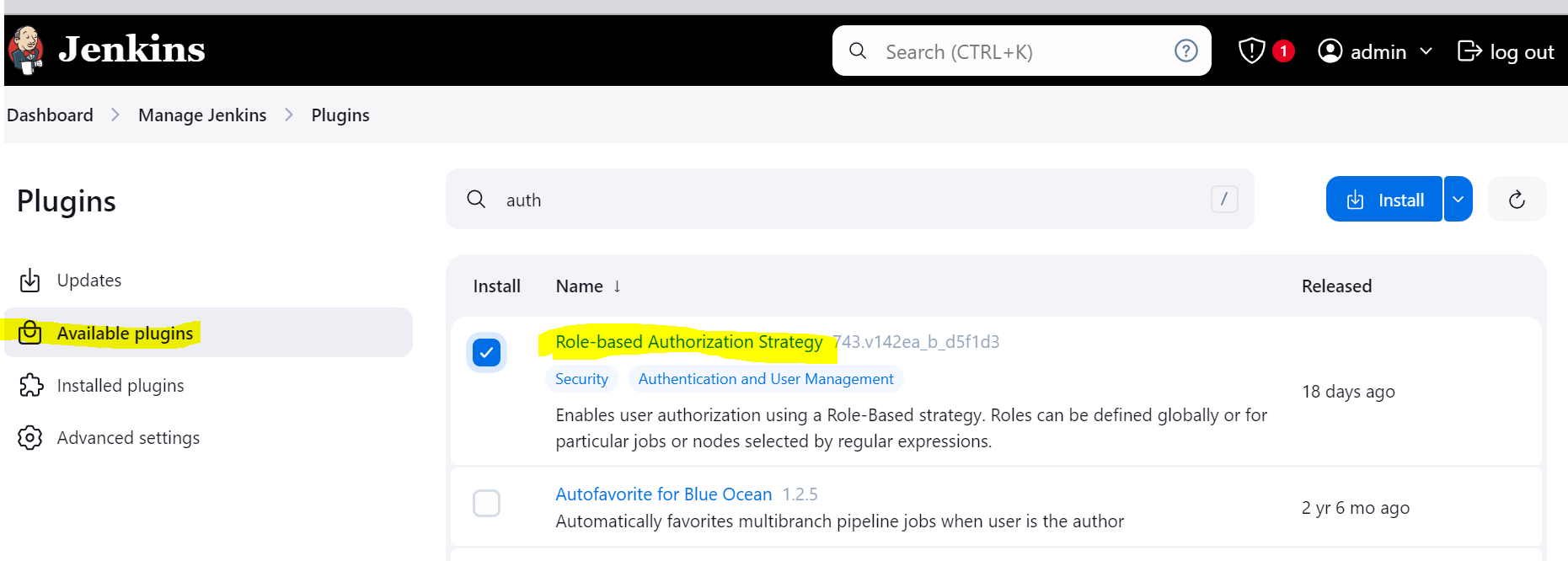
1. **Create users called Devops, Testing in Jenkins with Limited access.**

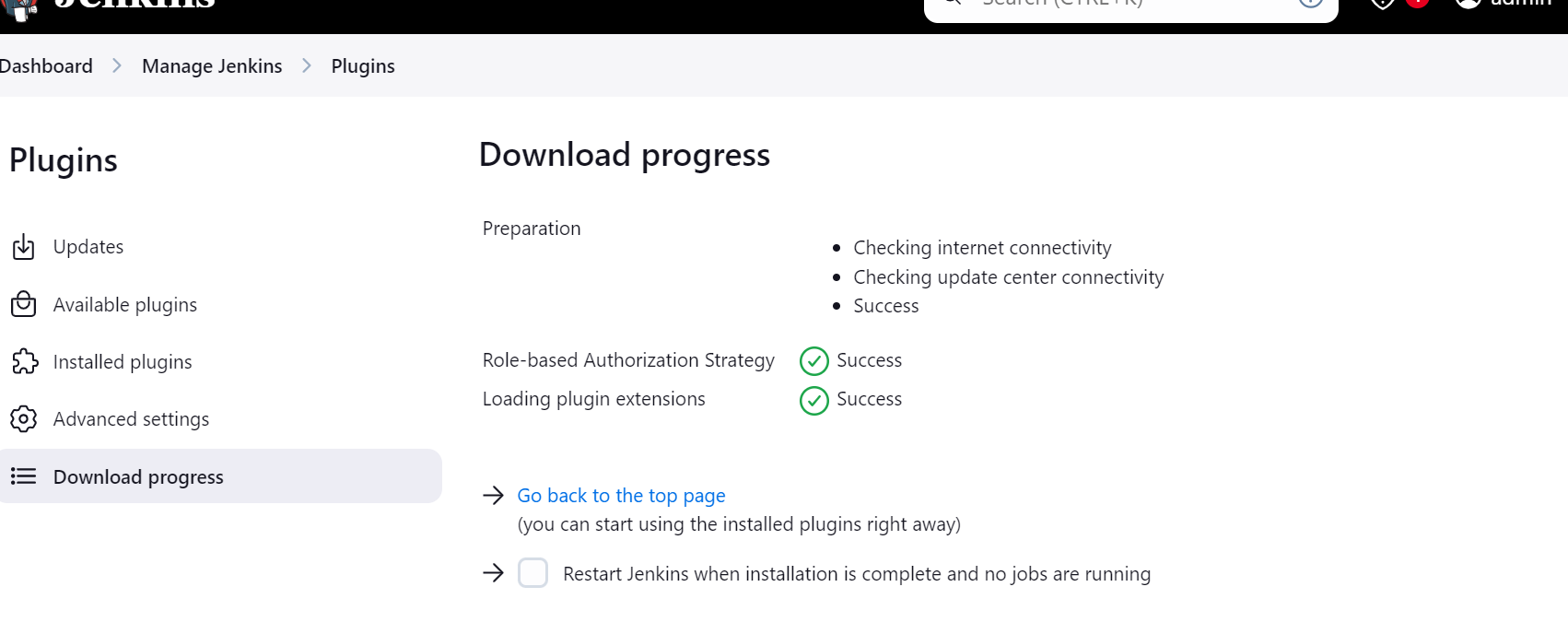


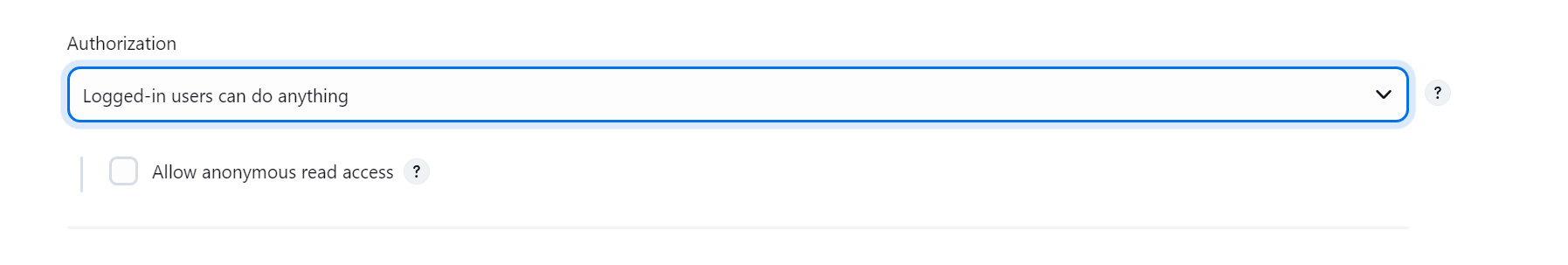
Scroll down to users

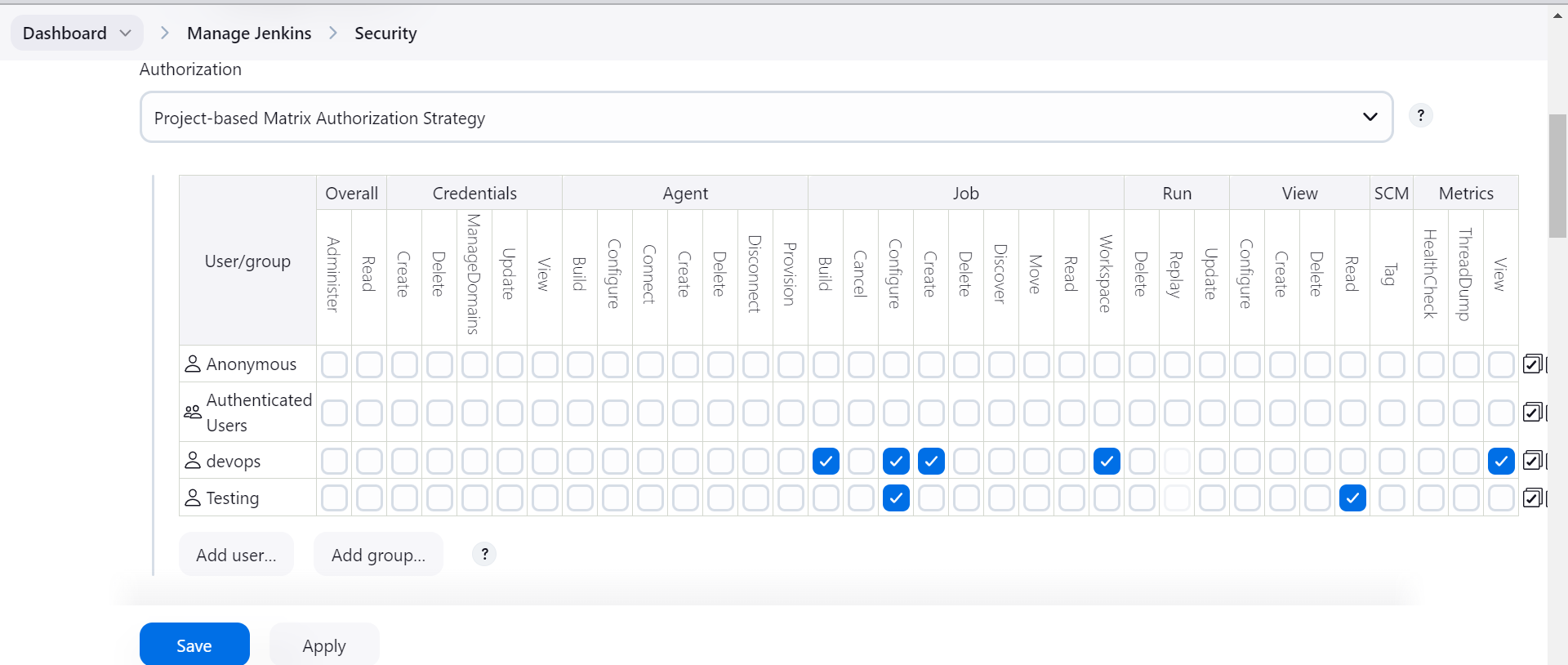
Created users



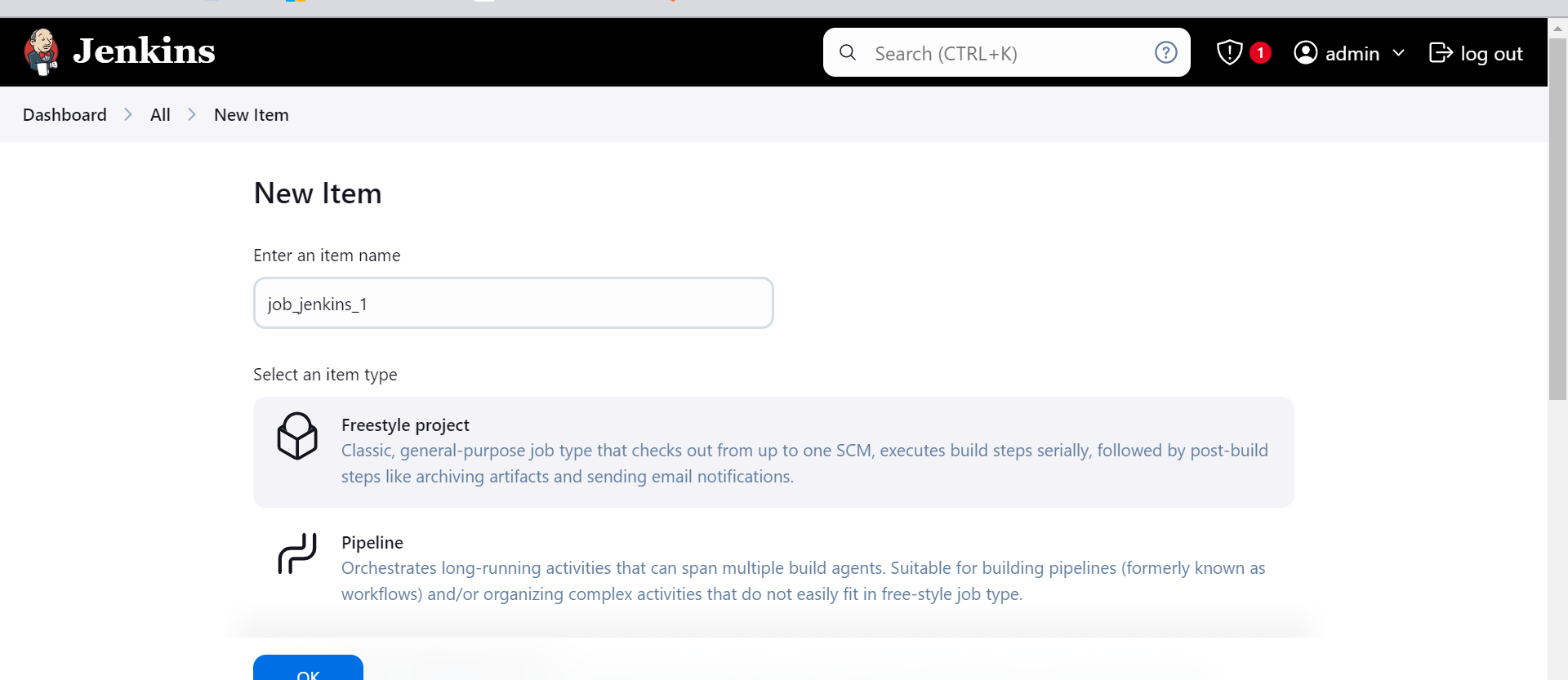




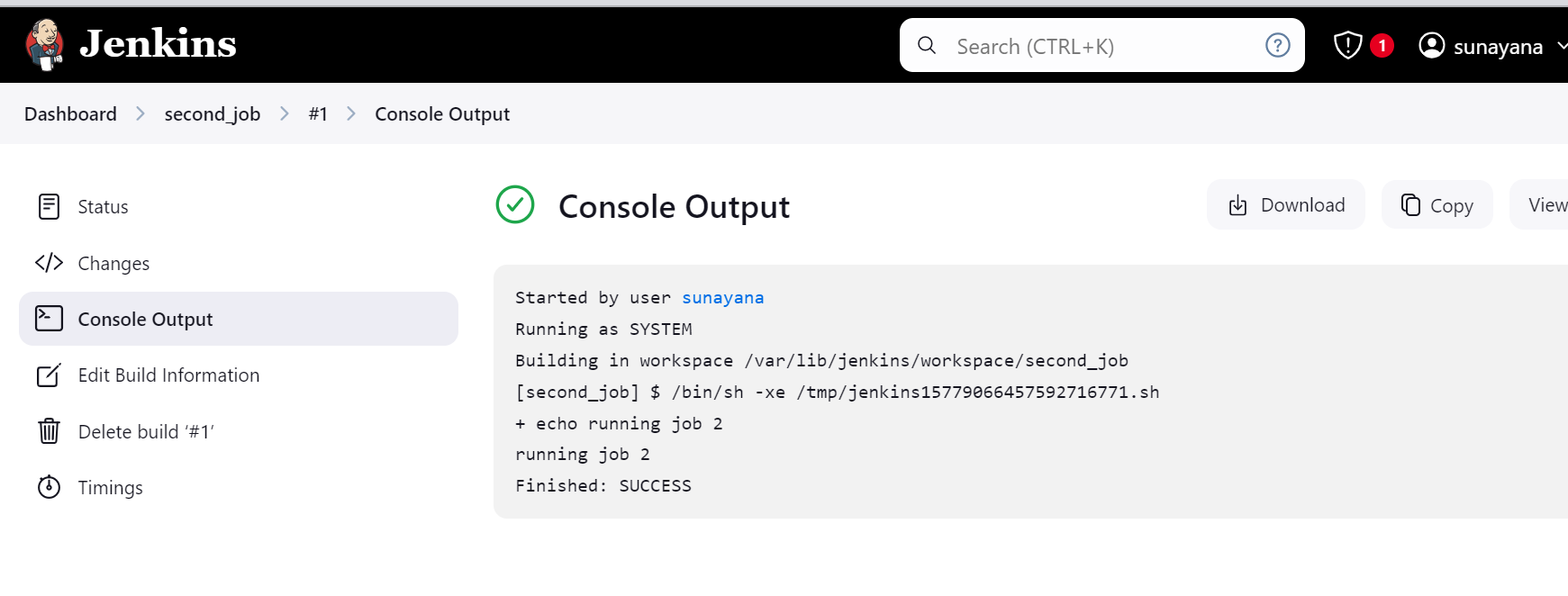


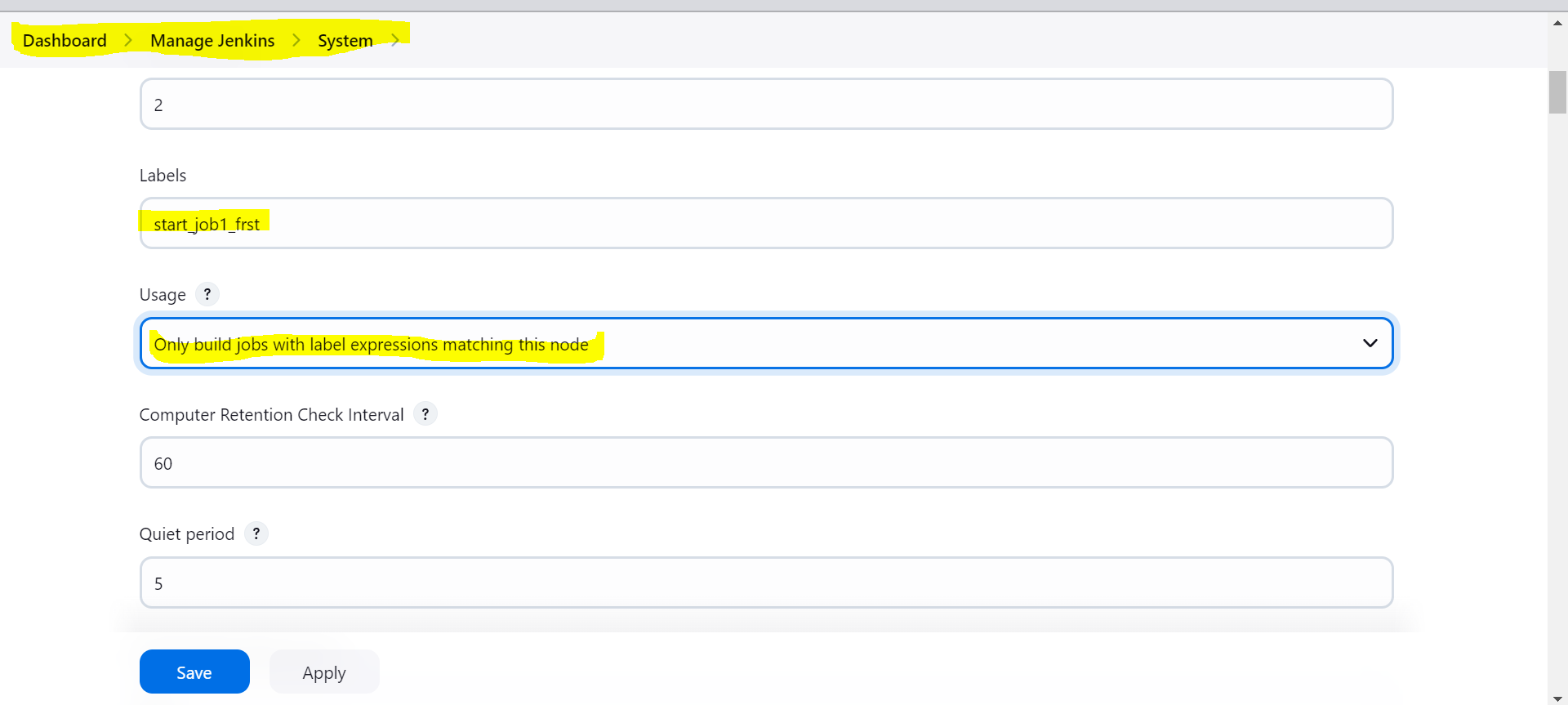


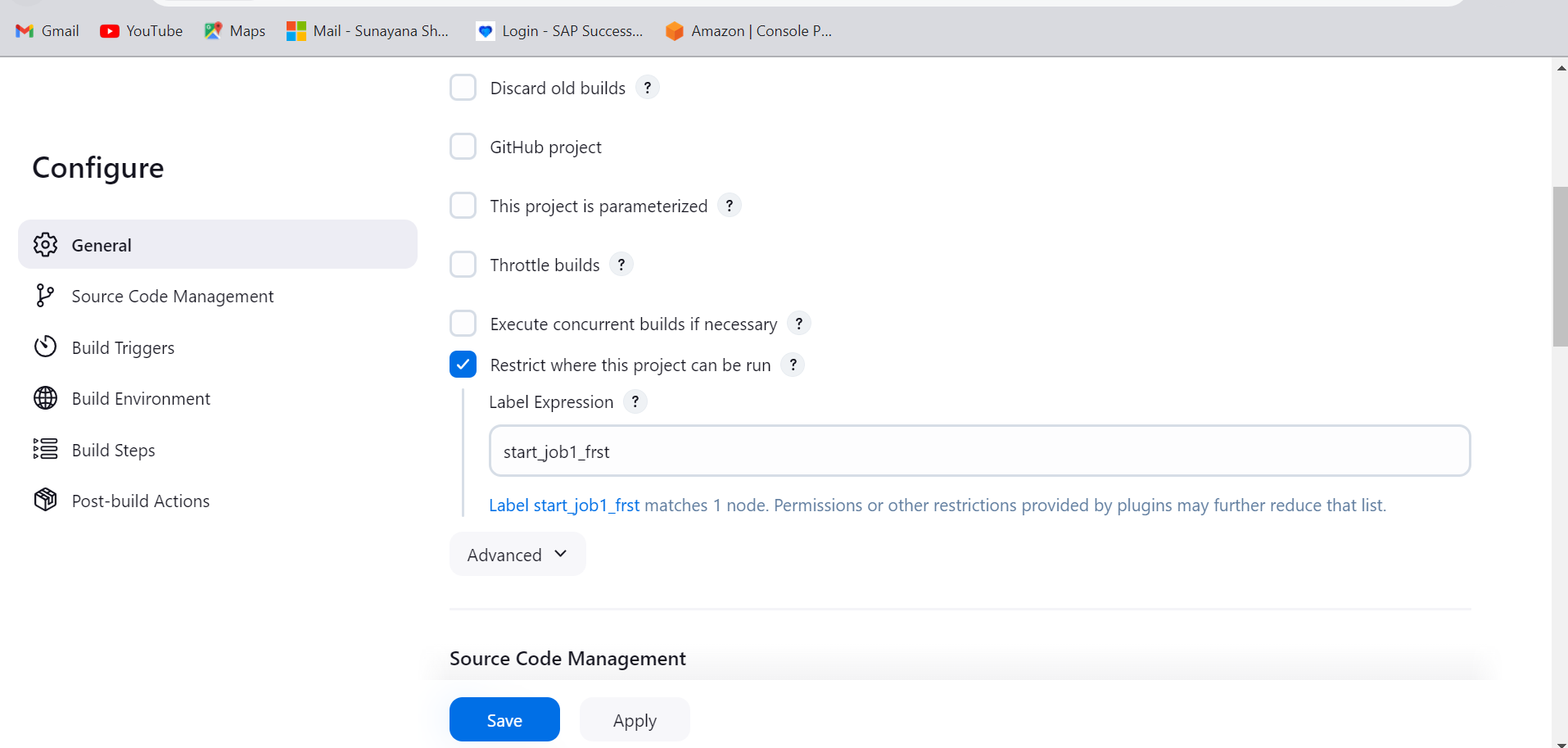
1. **Configure labels and restrict the jobs to execute based on label only.**



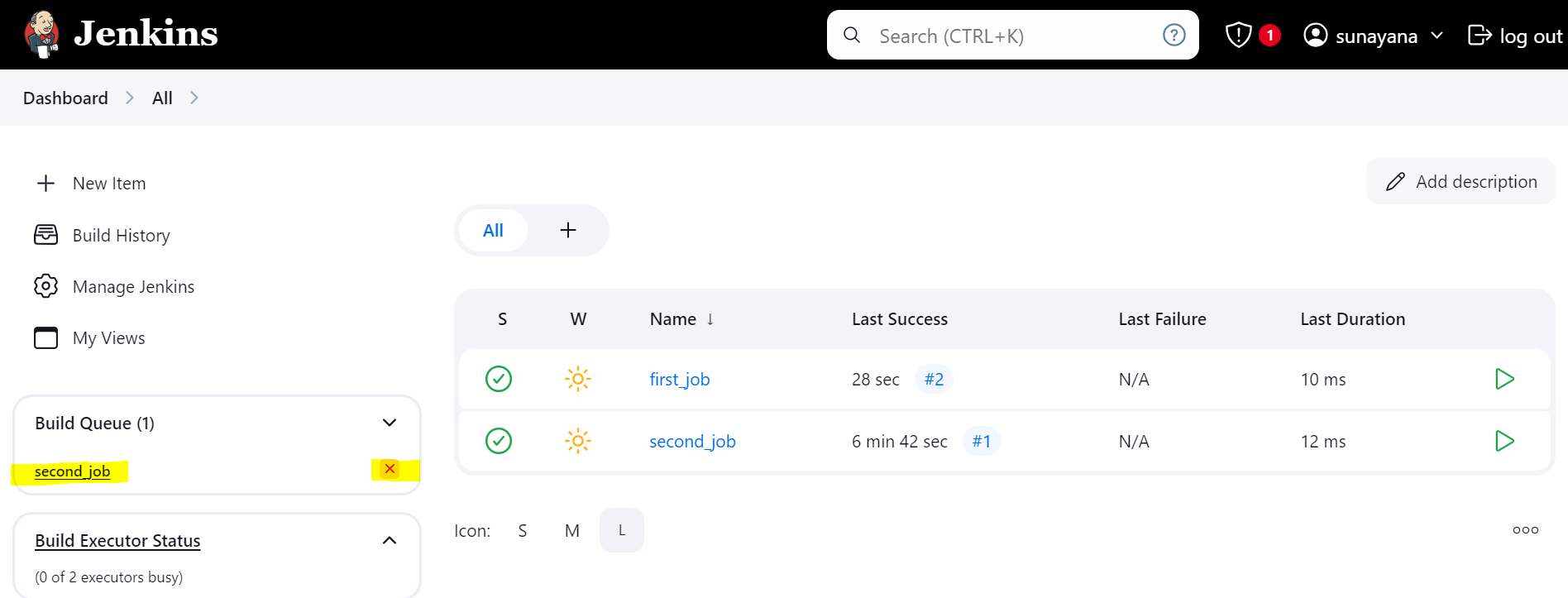
**Running jobs**



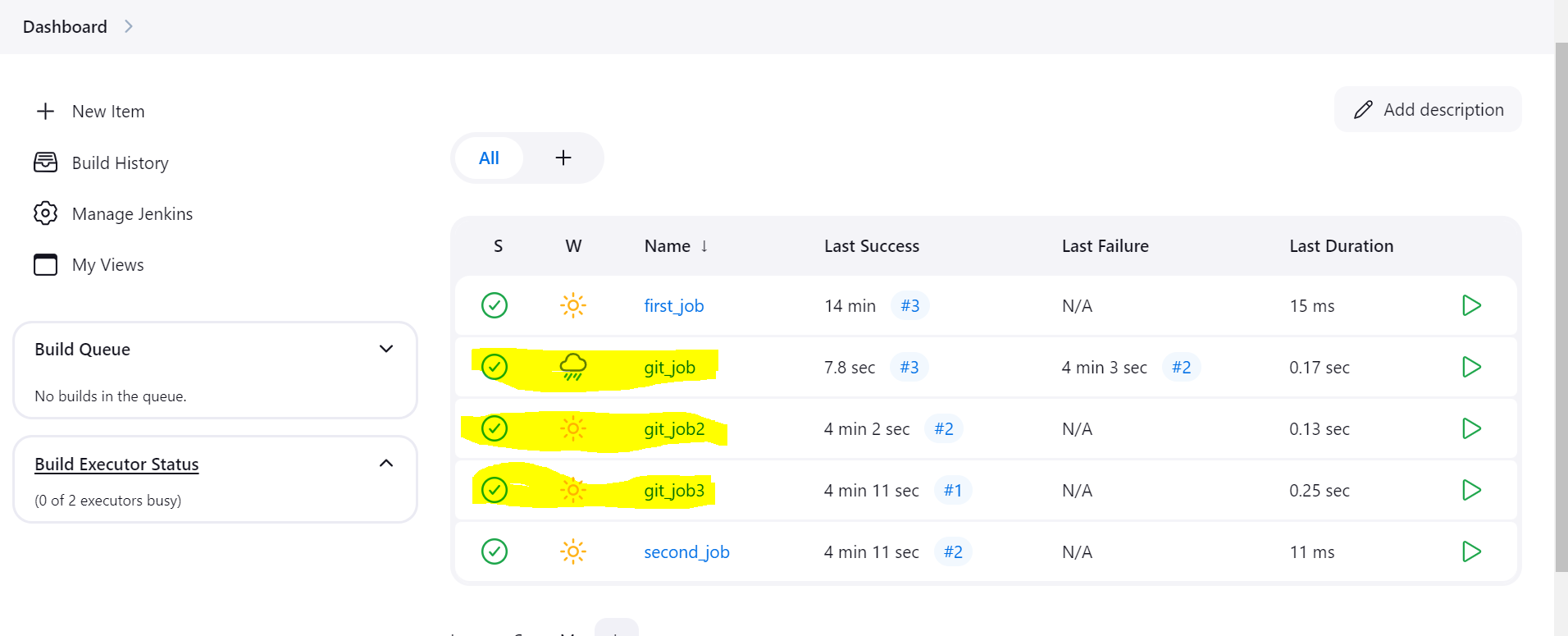




**After giving label restriction the second one is not running because we haven’t given any label to second job**



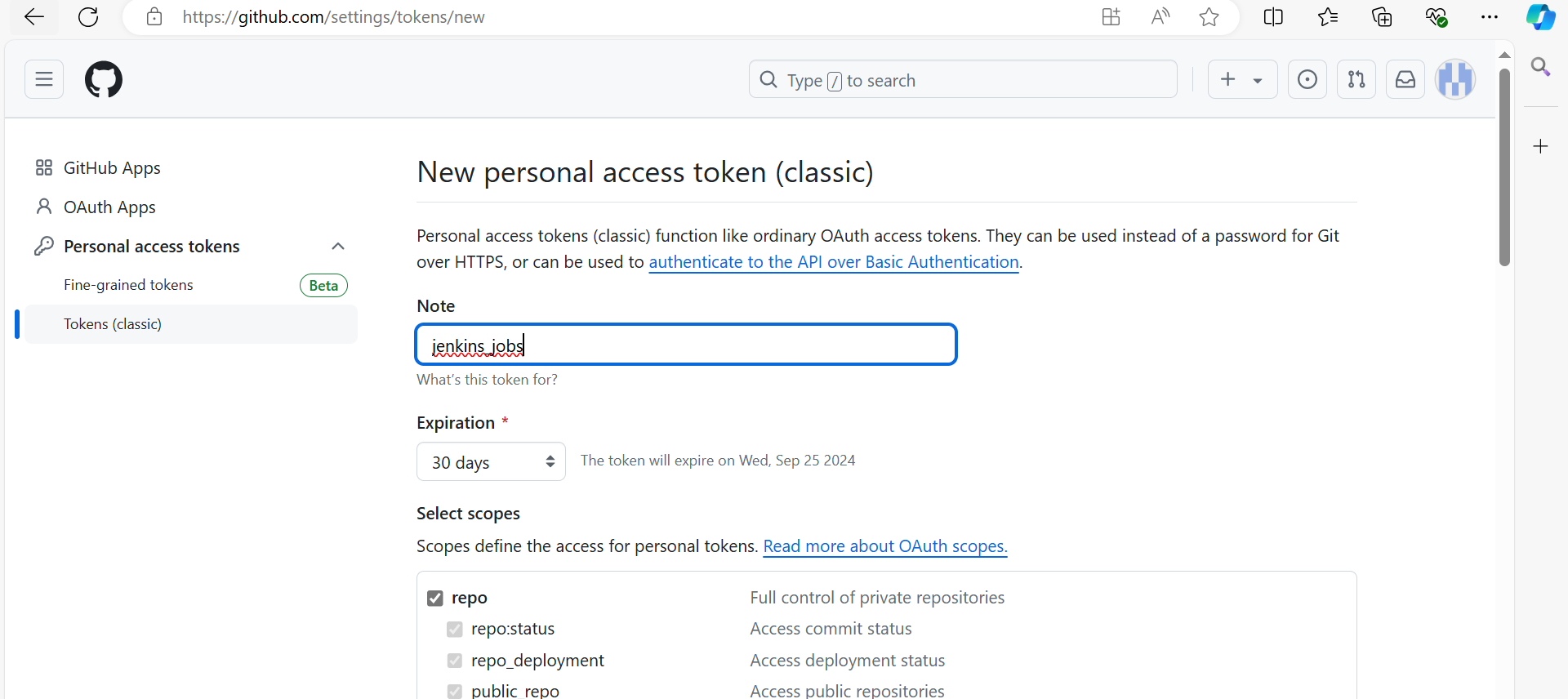
1. **Create Three sample jobs using the below URL.** [**https://github.com/betawins/Techie\_horizon\_Login\_app.git**](https://github.com/betawins/Techie_horizon_Login_app.git)



Use git in source code

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

**Create private repo in git hub >> settings >>Developer settings >>token (classic)>> generate new token**



**Select repo**

**Admin access read**

**ghp\_15jwJO6eKRigKWh0G9UqD91wNZStEy0KAgfu:-password**

**now got to Jenkins create job select git>> give private repo URL>> and add item there provide id and password created in token and save and slect the credentials created in add item**

**Build code … its success**

