https://pkg.jenkins.io/debian-stable/ Jenkins installation on ubuntu

ssh -i Downloads/jenMasterUbuntu.pem [ubuntu@13.232.126.7](mailto:ubuntu@13.232.126.7)

sudo systemctl start jenkins

sudo systemctl enable Jenkins

sudo cat /var/lib/jenkins/secrets/initialAdminPassword

sudo mkdir -p /home/jenkins/slave\_workspace

sudo systemctl status Jenkins

It appears that you've encountered an issue where you're unable to launch the Jenkins slave node from the Jenkins master interface. If you don't see the "Launch" option, you may need to check your Jenkins master's security settings. Follow these steps to address this issue:

1. \*Enable JNLP Agent Port\*:

- The error message "JNLP agent port is disabled and agents cannot connect this way" suggests that Jenkins is configured to not allow connections from agents via JNLP (Java Web Start).

- To enable the JNLP agent port, follow these steps:

a. Log in to your Jenkins master web interface.

b. Go to "Manage Jenkins" > "Configure Global Security."

c. Look for the section labeled "Agent protocols" or "Agent/Controller" and find the "TCP port for JNLP agents" or similar setting. It's likely set to "Random."

d. Change the "TCP port for JNLP agents" setting to a specific port number (e.g., 50000) and save your changes.

e. After making this change, you should be able to launch the slave node from the Jenkins master interface.

2. \*Launch the Slave Node\*:

- After you've updated the JNLP agent port setting, return to your Jenkins master interface.

- Go to the slave node's configuration, and you should now see the "Launch" option. Click it to generate the secret key for the slave node.

3. \*Generate Secret Key\*:

- Once you've clicked "Launch," Jenkins should provide you with a secret key for the slave node.

4. \*Copy the Secret Key\*:

- Copy the secret key to your clipboard.

5. \*Start the Slave Node\*:

- On the slave node (the AWS Ubuntu instance), use the following command to start the slave agent with the secret key:

bash

java -jar agent.jar -jnlpUrl http://jenkins-master-ip:50000/computer/Slave-Node-Name/slave-agent.jnlp -secret Your-Secret-Key

- Replace jenkins-master-ip, Slave-Node-Name, and Your-Secret-Key with the appropriate values. Make sure the port (e.g., 50000) matches the one you configured in Jenkins.

This should enable you to launch and connect the Jenkins slave node to the Jenkins master without encountering the "JNLP agent port is disabled" error.

sudo chown -R ubuntu:ubuntu /home/jenkins/slave\_workspace

ubuntu@ip-172-31-45-38:~$ curl -sO http://13.232.126.7:8080/jnlpJars/agent.jar

ubuntu@ip-172-31-45-38:~$ java -jar agent.jar -jnlpUrl http://13.232.126.7:8080/computer/nslave/jenkins-agent.jnlp -secret 227bb84f9b5ce7b36615e474c91605d94024a1ec979a0d5db596be5bc108ab63 -workDir "/home/jenkins/slave\_workspace"