

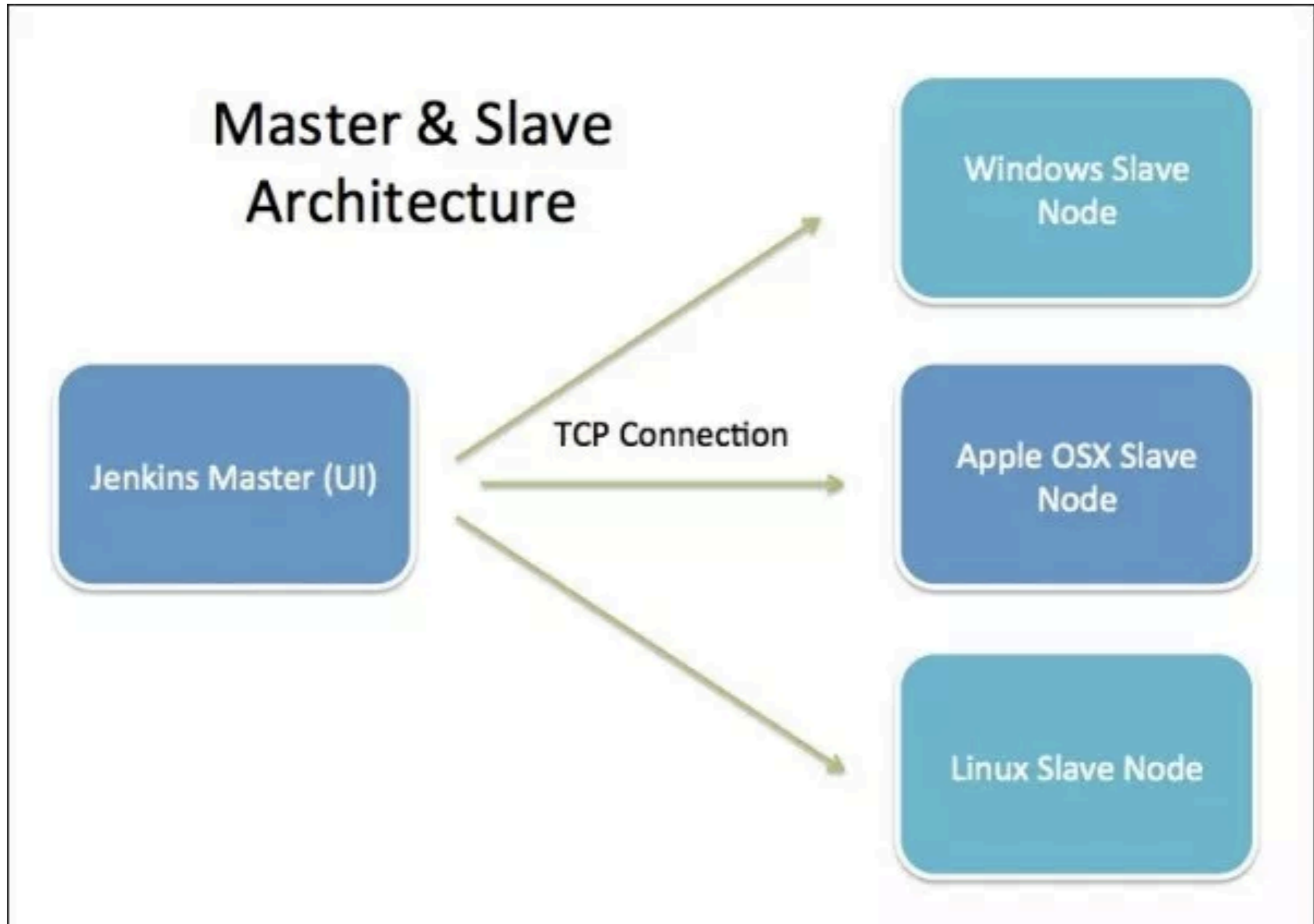


Jenkins

Jenkins: Distributed Builds

JENKINS : Builds

- We are using the Jenkins Master Node to Execute the Builds and package the Application.
- Jenkins Follow the **Master-Slave Architecture** i.e. many slaves work for a master. It is also known as **Jenkins Distributed Builds**.
- It also allows User to run jobs on different environments like Linux, Windows, MacOS, etc.
- User can also run the **same test case on different environments in parallel** using Jenkins Distributed Builds, which in turn helps you to achieve the desired results quickly using this distributed approach.
- All of the job results are collected and combined on the master node for monitoring.



JENKINS MASTER

- Your main Jenkins server is the master machine. The tasks performed by the master are :
 - Scheduling build jobs.
 - Dispatching builds to the slaves for the execution.
 - Monitor the slaves.
 - Recording and presenting the build results.
 - Can also execute build jobs directly.

JENKINS SLAVE

- A slave is a Java executable that runs on a remote machine. The characteristics of the slave are :
 - It hears requests from the Jenkins Master instance.
 - Slaves can run on a variety of operating systems.
 - The job of a Slave is to do as they are told to, which involves executing build jobs dispatched by the Master.
 - We can configure a project to always run on a particular Slave machine or a particular type of Slave machine, or simply let Jenkins pick the next available Slave.

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, writing the words 'Thank you!' in a cursive script on a white surface. The hand is positioned on the right side of the frame, with the fingers gripping the marker. The text is written in a fluid, handwritten style.

See you in next lecture ...