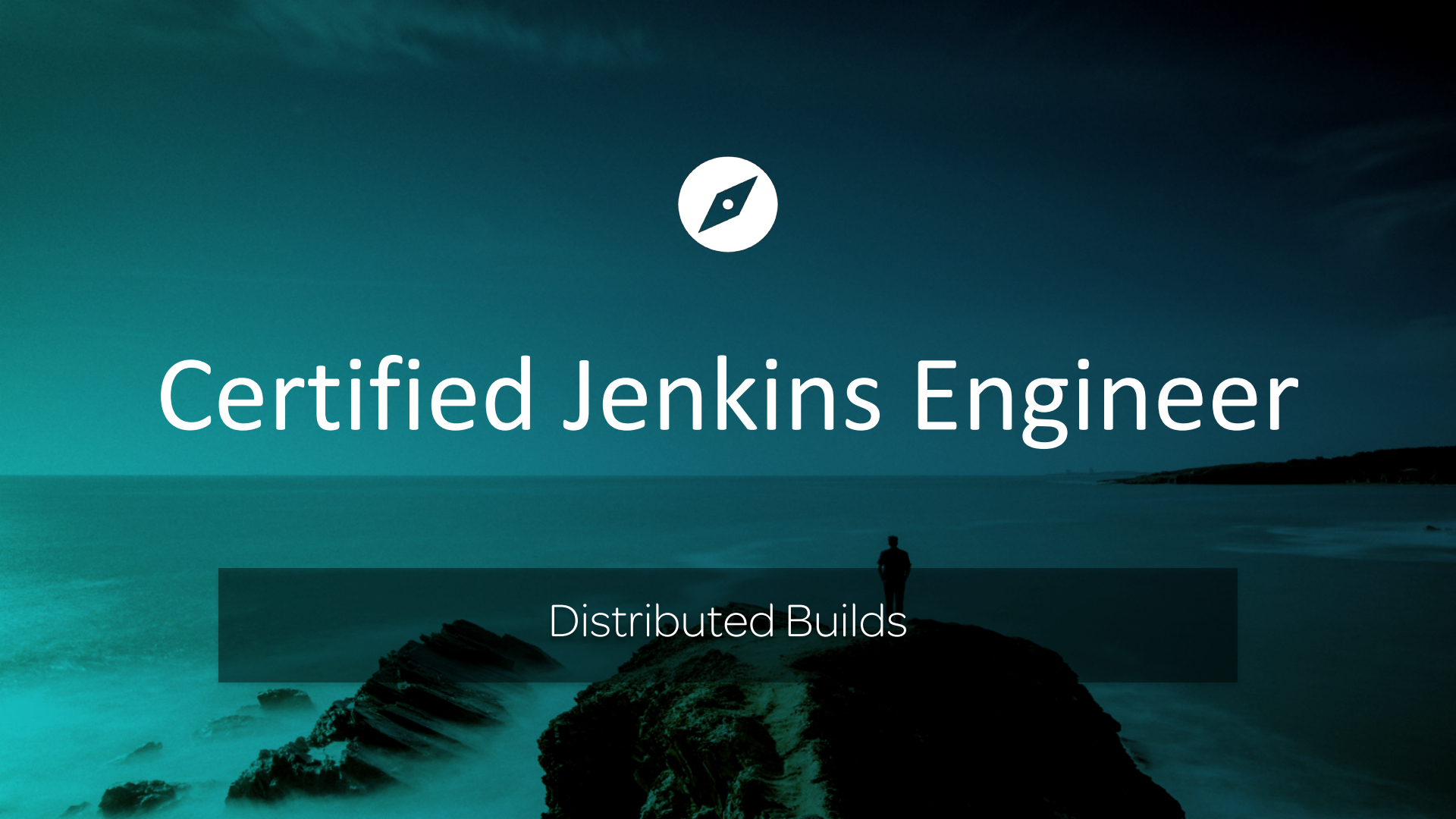
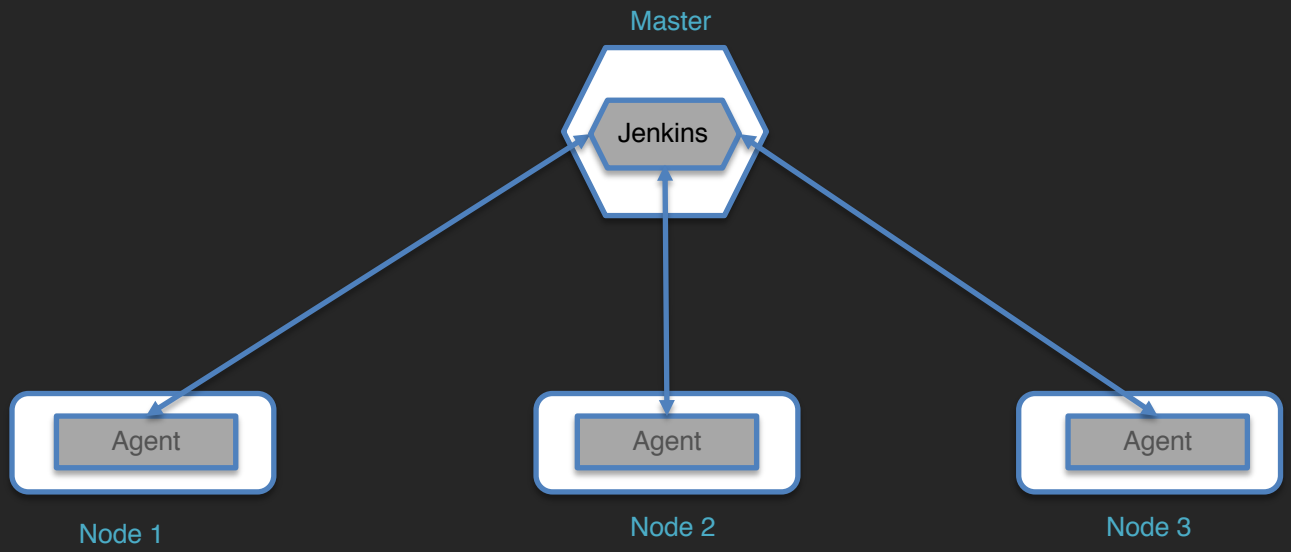

Certified Jenkins Engineer
Distributed Builds

Distributed Builds

Distributed builds are build jobs in which the executor of the build is located on an agent (node) that is separate from the master.



Distributed Builds

The master acts as the controller for the build, running specific builds on specific agents, allowing for parallelism and greater ease in multiconfiguration pipelines.

If you have 3 versions of the software to perform 5 unit tests against, this can be done in one parallel pass, resulting in 5 tests on each agent rather than 15 tests on the master.

Distributed Builds

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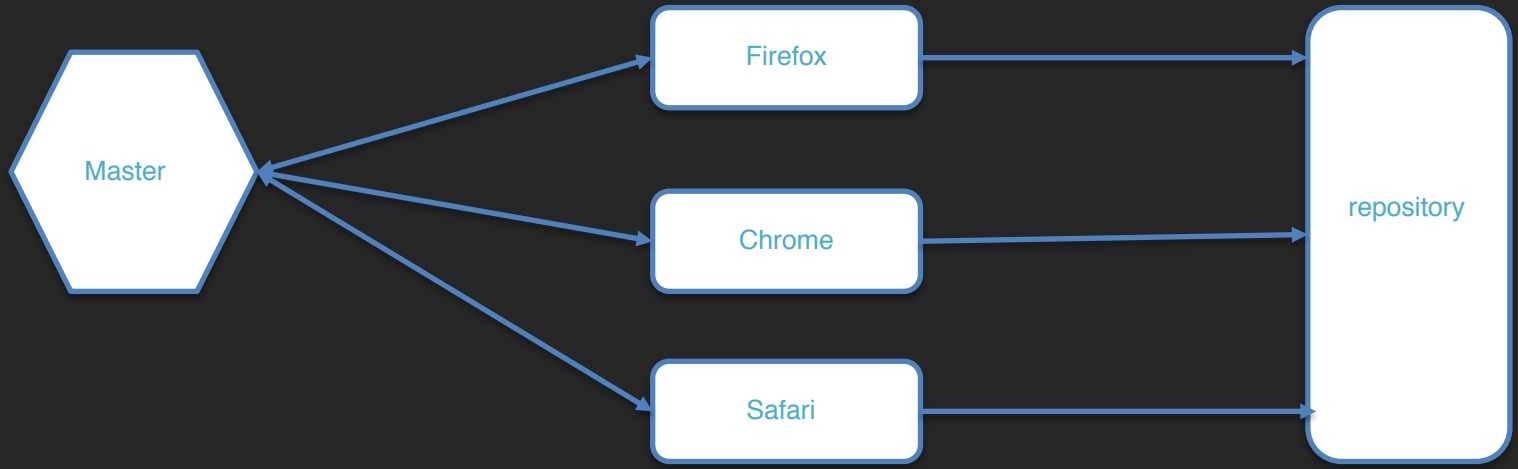


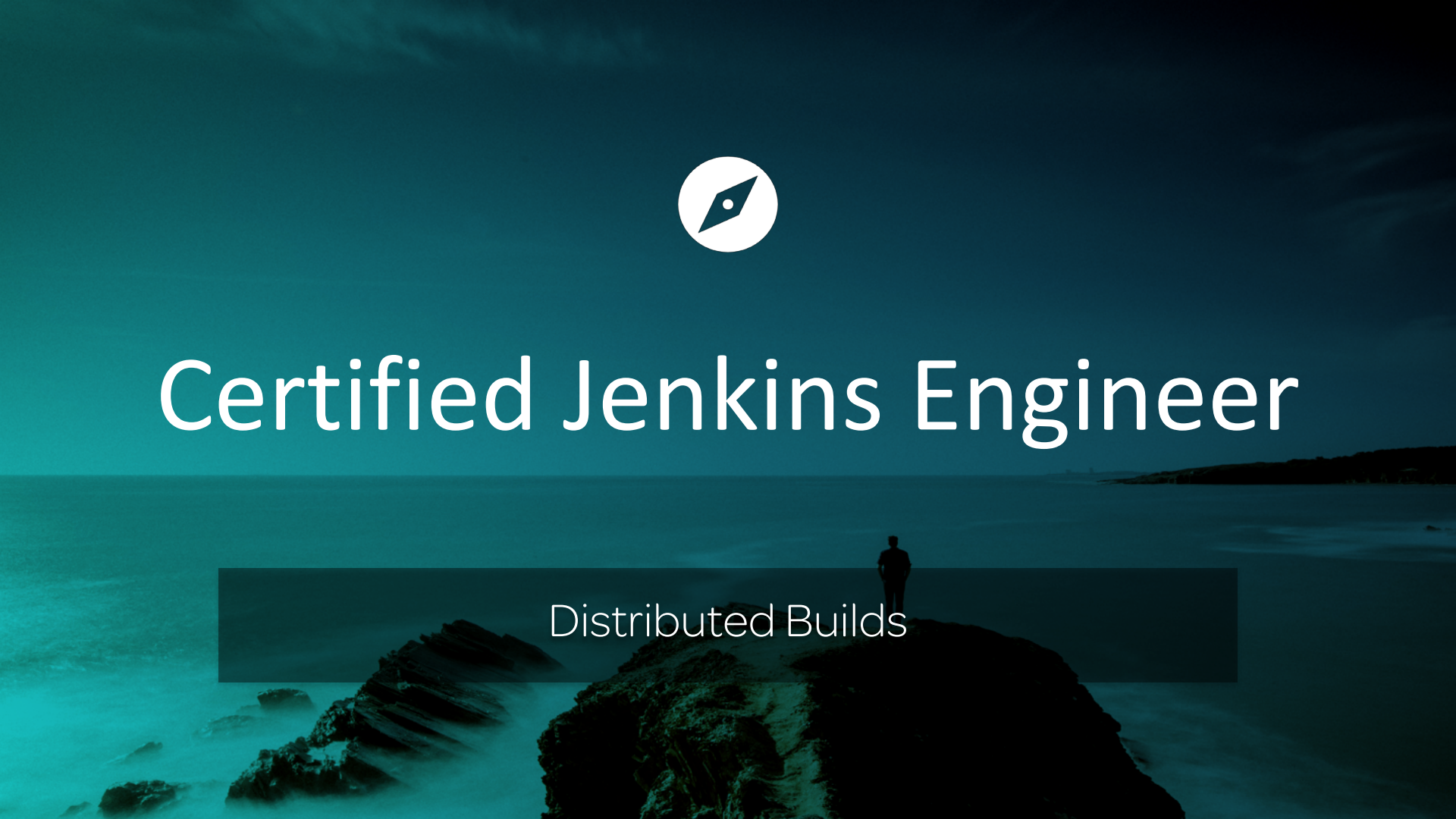
Distributed Builds

Nodes with specific configurations can be tagged so that pipeline steps specific to that configuration are directed to that node.

In most cases Artifacts, progress reports and build results are sent back to the master repository. Storage on the master must be considered for this reason.

Master / Agent communication is via SSH (preferred) or JNLP (TCP or HTTP).

Agents should be "fungible" (replaceable). This means that local configuration on the agent should be kept to a minimum and global configuration on the master should be preferred.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Distributed Builds