### Kubernetes Ochestration

Author: Nho Luong

Skill: DevOps Engineer Lead





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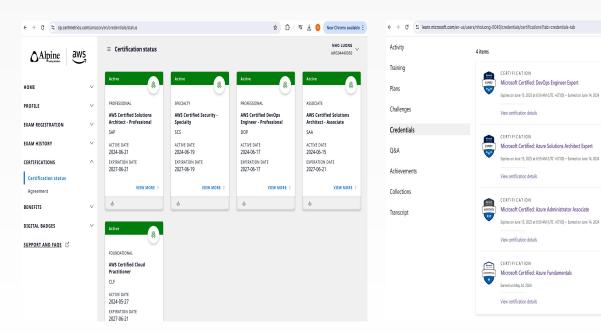
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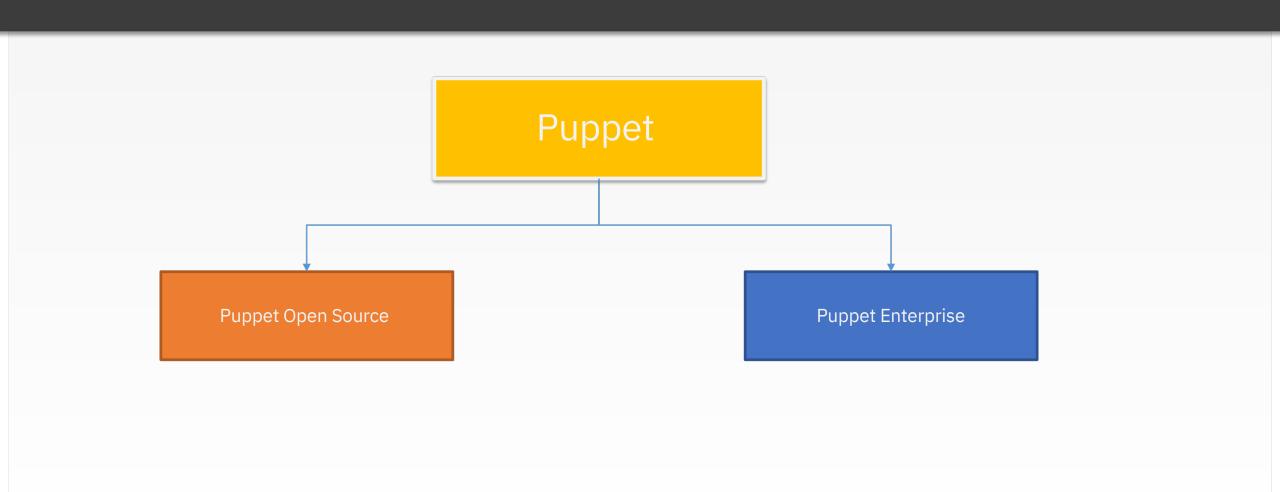
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## **Puppet Architecture**



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### Puppet's architecture Overview

You can configure systems with Puppet either in a client-server architecture, using the Puppet agent and Puppet masterapplications, or in a stand-alone architecture, using the Puppet applyapplication.

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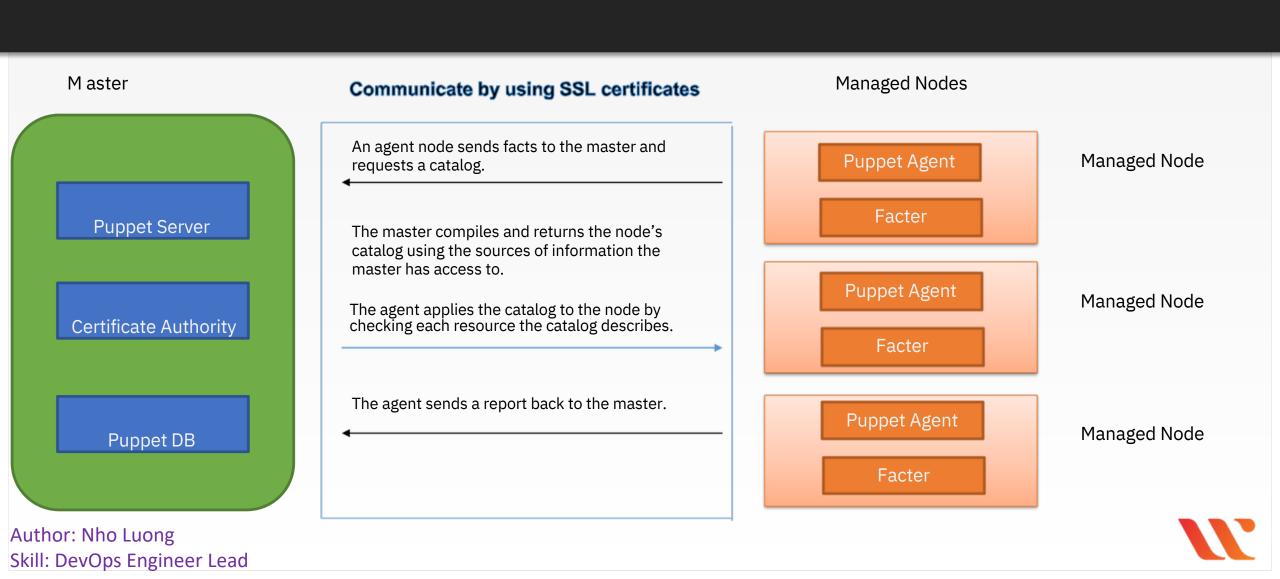
## Catalog



A catalog is a document that describes the desired system state for one specific computer. It lists all of the resources that need to be managed, as well as any dependencies between those resources.

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### **Puppet Master-Agent Architecture**



# Configuration Management

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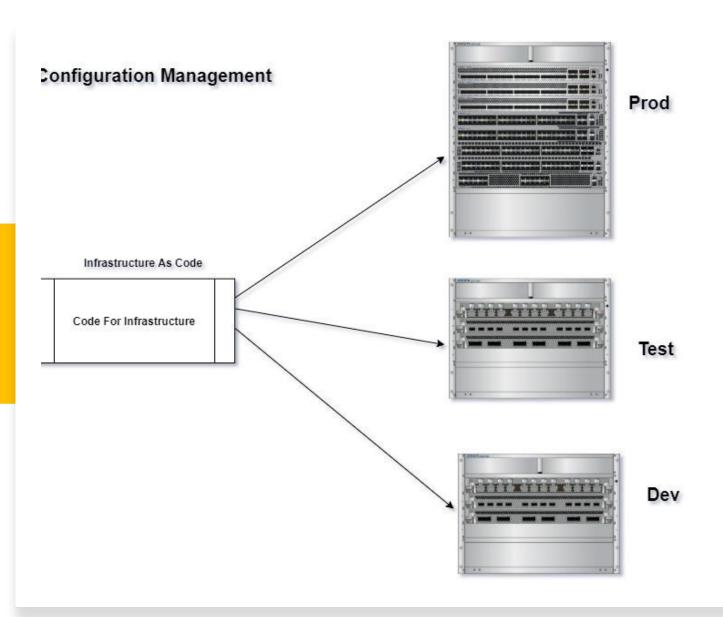
Push based Model

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What is Configuration Management(CM)

•CM is a systems engineering process for establishing and maintaining consistency of a product's performance, functional, and physical attributes with its requirements, design, and operational information throughout its life.

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Configuration Management

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#### Pull and Push Models

Configuration Management

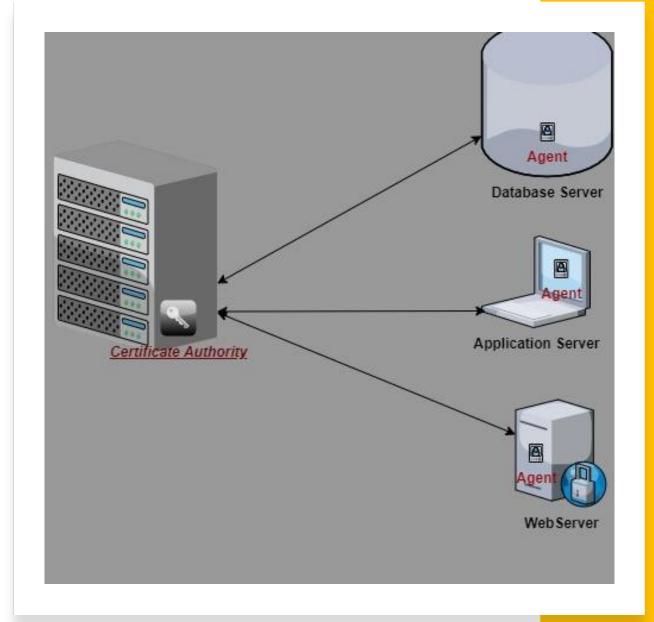
tools tend to implement one (or both) of these models of management. These are thewaysa given configuration management tool actually does the thingsit has to do, like installing packages and writing files.



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## Pull based Model (Puppet)

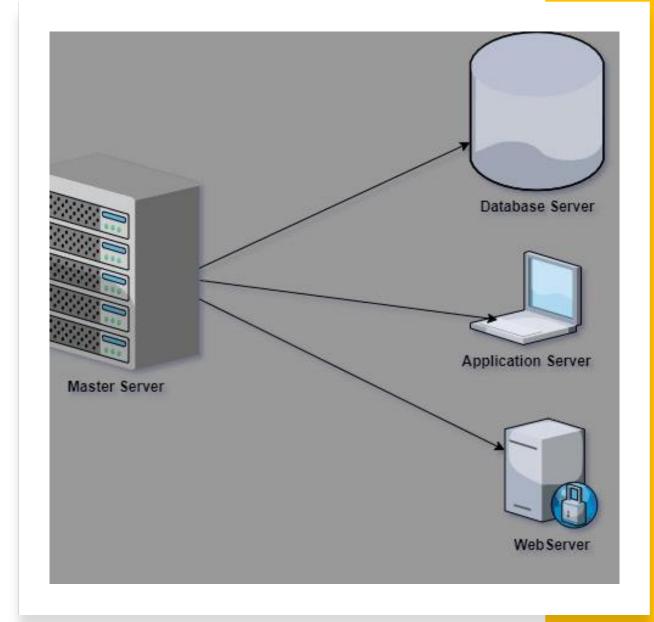
- The server being provisioned (node) runs an agent (daemon) that asks a central authority (master) if/when it has any updates that it should run.
- Requires a daemon to be installed on all machinesanda central authority to be setup.



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# Push based Model (Ansible)

• Centralized server pushes the configurations on the nodes



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