**OpsWorks**

* OpsWorks is a configuration management service that provides managed instance of **Chef and Puppet**, two very popular automation platforms
* Automates how applications are configured, deployed and managed
* Provide configuration management to deploy code, automate tasks, configure instances, perform upgrades etc
* OpsWorks lets you use Chef and Puppet to automate how servers are configured, deployed and managed across your EC2 instances or on-premises compute environments
* **OpsWorks is an automation platform that transforms infrastructure into code**
* OpsWorks consists of Stacks and Layers
  + Stacks are collections of resources needed to support a service or application
  + Stacks are containers of resources(EC2, RDS) that you want to manage collectively
  + Every Stack contains one or more Layers and Layers automate the deployment of packages
  + Stacks can be cloned – but only within the same reigon
  + Layers represent different components of the application delivery hierarchy
  + EC2 instances, RDS instances, and ELBs are exmples of Layers
* OpsWorks is a global service, but when you create a stack, you must specify the region and that stack can only control resources in that region
* There are three offerings: Opsworks for Chef Automate, OpsWorks for Puppet Entrerprise, and OpsWorks Stacks
* **OpsWorks for Chef Automate**
  + A fully-managed configuration management service that hosts Chef Automate, a suite of automation tools from Chef for configuration management, compliance and security and continuous deployment
  + Completely compatible with tooling and cookbooks from the Chef community and automatically registers new nodes with your Chef server
  + Chef server stores recip and configutation data
  + Chef client is installe don each server
* **OpsWorks for Puppet Enterprise**
  + A fully-managed configuration management service that hosts Puppet Enterprise, a set of automation tools from Puppet for infrastructure and application management
* **OpsWorks Stacks**
  + An application and server management service that allows you to model your application as a stack containing different layers, such as load balancing, database and application server
  + OpsWorks Stacks is an AWS creation and uses embedded Chef Solo client installed on EC2 instances to run Chef recipes
* OpsWorks Stacks supports EC2 instances and on-premise servers as well as an agent