AWS OpsWorks

AWS OpsWorks provides managed implementations of Puppet and Chef in a product which integrates with other AWS Products and services.

- **3 Modes**
  - **Puppet Enterprise** - AWS Managed Puppet Master Server
    - desired state of the infra
  - **Chef Automate** - AWS Managed Chef Servers
    - infra as code with ruby
  - **Opsworks** - AWS Integrated Chef, No Servers
- Use when you already have one of them
- Requirement to automate... (suitable for infra engineer)
- Key terms to lookout for => **Recipes, Cookbook or Manifests**

Terms

- Stacks - Core Component : **container** of resources
- Layers - each layer is a **specific function** within a stack
- **Recipes & Cookbooks**
- Lifecycle Events - **Setup, Configure, Deploy, Undeploy and Shutdown**
- **Instances** - EC2/On-premise
  - 24/7
  - time-based
  - load-based
- **Apps**

AWS OpsWorks

Recipes

GitHub
Cookbook
Repository

Layers

RDS Instance created outside of OpsWorks added to a DB Layer

Apps added to layers via Deploy recipe

App

S3

http://

Apps downloaded from S3 or via http

DB Layer

Time-based

App Layer

24/7

Load-based

Deploy

Load Balancer Layer

Full stack permissions control via IAM SSH key management via OpsWorks

OpsWorks Stack

Stack metrics into CloudWatch

Public Internet