

Exploring Deployment and Infrastructure Management Services

Questions	Notes
The bigger picture	<ul style="list-style-type: none">• These services help you quickly stand up new applications , automate the management of infrastructure , and provide real-time visibility into system health
Infrastructure as Code(Iac)	<ul style="list-style-type: none">• Iac allows you to write a script to provision aws ressources.The benefit that you provision ressources in a reproducible manner that saves time
CloudFormation	<ul style="list-style-type: none">• Allows you to provision aws ressources using infra as code• Provides a repeatable process for provisioningg ressources• works with most AWS services• Create templates for the ressources you want to provision• In the real world:<ul style="list-style-type: none">◦ automate the infra-provisioning process for EC2 servers◦ you can use loudFormation to automate the creation of EC2 instances un you aws account
Elastic Beanstalk	<ul style="list-style-type: none">• Elastic Beanstalk allows you to deploy your web applications and web sservices to aws• Orchestration service that provisions ressources• automatically handles the deployment• Monitors application health via a health dashboard• in the real world:<ul style="list-style-type: none">◦ quickly deploy a scalable Java-based web application to aws◦ after you upload your java code , Elastic Beanstalk deploys it and handles capacity provisioning , load balancing , and auto scaling . Elastic Beanstalk even monitors the health of your application
OpsWorks	<ul style="list-style-type: none">• OpsWorks allows you o use Chef and Puppet to automate the configuration of your servers and deploy code• Deploy code and manage applications• manage on-premises servers or EC2 instances in aws cloud• works with Chef and Puppet automation platforms• in the real world:<ul style="list-style-type: none">◦ Automate software configuration and infrastructure management for your application◦ OpsWorks allows you to define software installation scripts and automates configuration for your application servers

Résumé

- **Cloudformation:** Supports infrastructure automation using infrastructure as Code
- **OpsWorks:** can deploy applications on-premises, and it also automates infrastructure management using Chef or Puppet
- **Elastic Beanstalk** : is only used to deploy applications to the aws Cloud- it is not used to deploy applications on-premises