Deploying Code with AWS CodeDeploy

AN OVERVIEW OF AWS CODE DEPLOY

Joshua Edwards

VICE PRESIDENT OF ENGINEERING

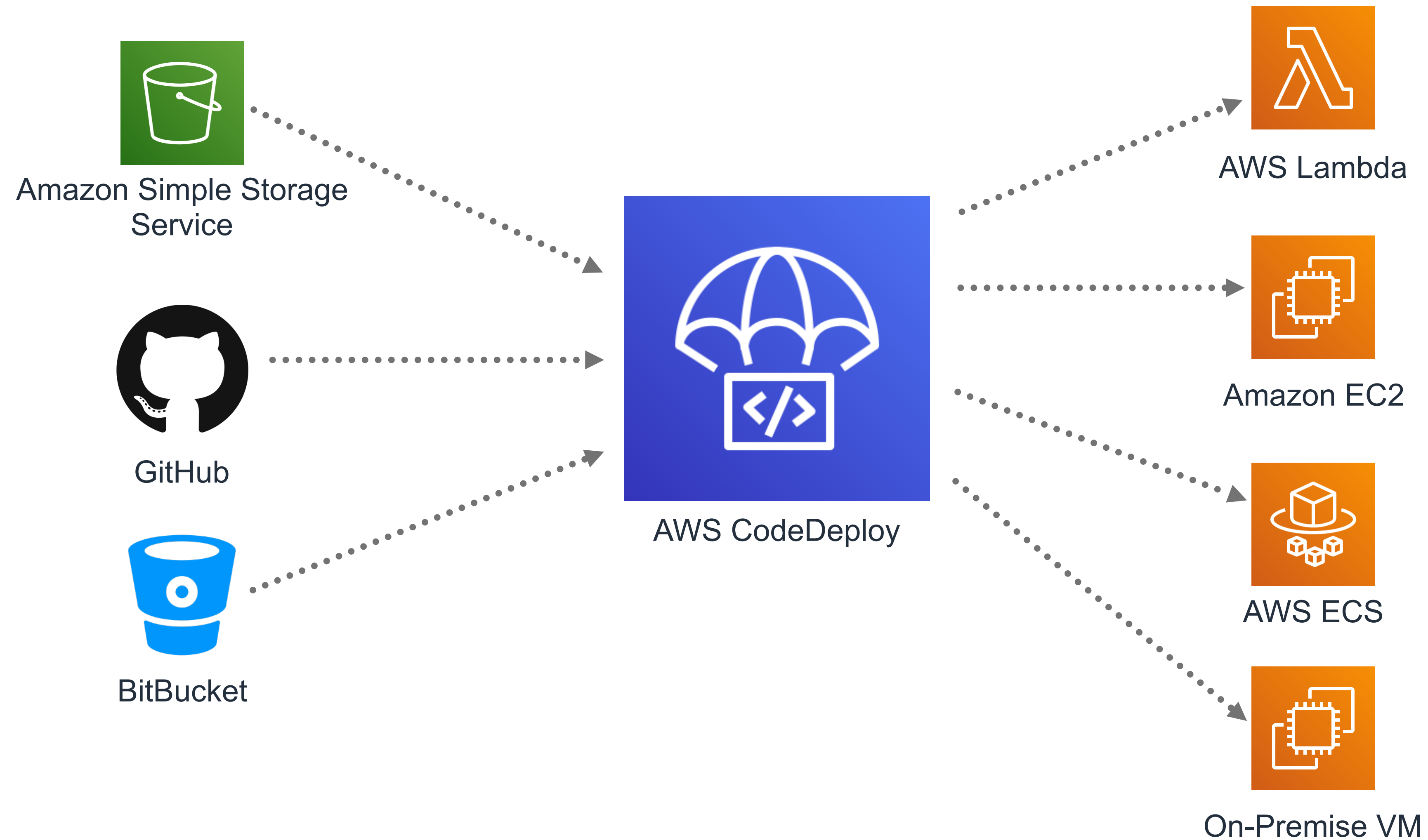@JoshuaGEdwards

Introduction

An Overview of AWS CodeDeploy

Deployment Services and Sources

Who Should Use AWS CodeDeploy?

AWS Developers
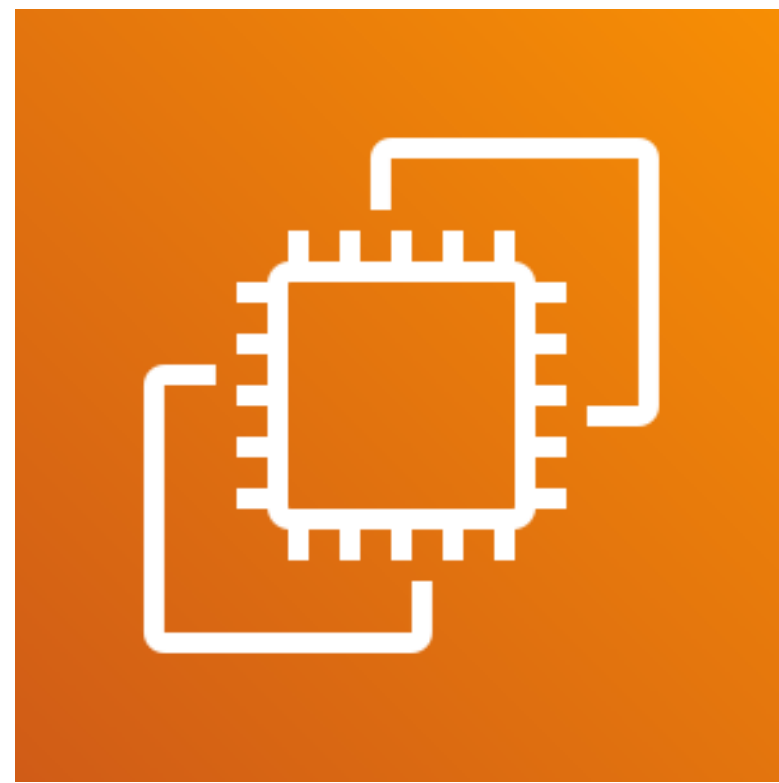
AWS DevOps

AWS Architects
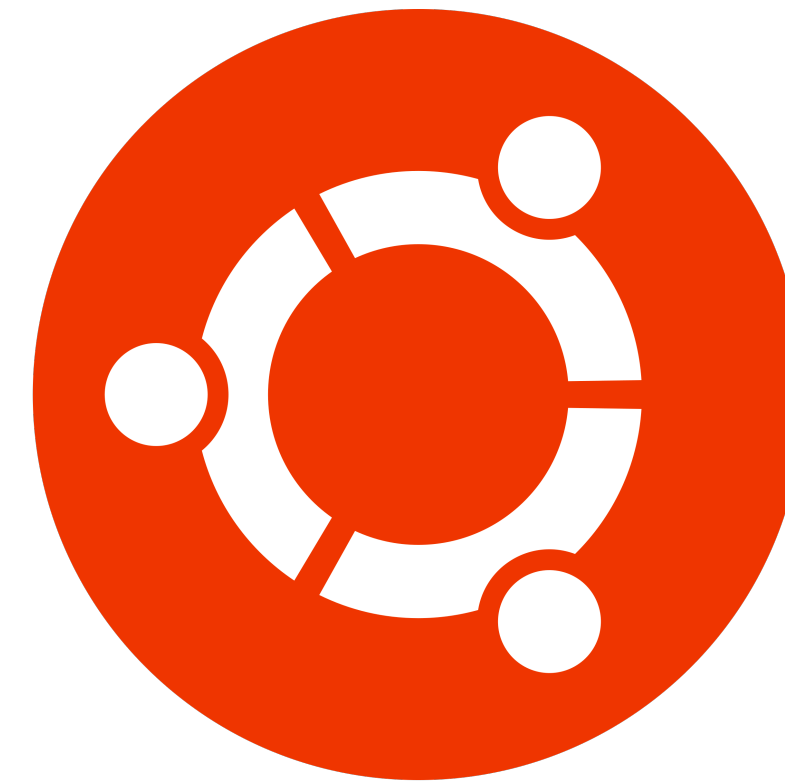
SysAdmins

Which Operating Systems Can Be Used?

Amazon Linux　　　**RHEL**　　　**Ubuntu**　　　**Windows Server**

CodeDeploy Security Features

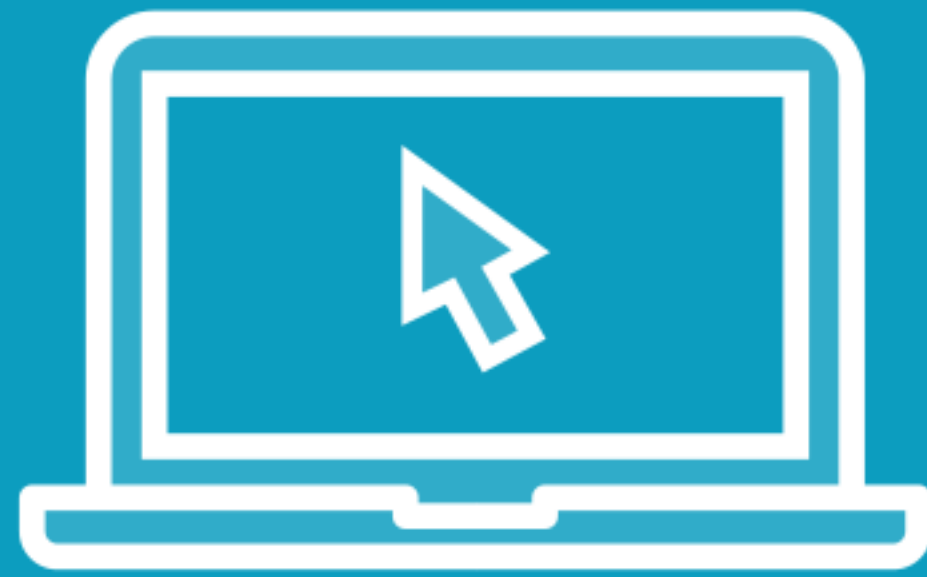|		
Shared Responsibility Model	**Encryption in Transit**	**Incident Management**
Encryption at Rest	**Auditing**	**Compliance**

Managing AWS CodeDeploy Access and Permissions

Demo

IAM Access

– Allow and restrict access to CodeDeploy in IAM

Service Roles

– Create the EC2 CodeDeploy service role

– Create the ECS CodeDeploy service role

– Create the Lambda CodeDeploy service role
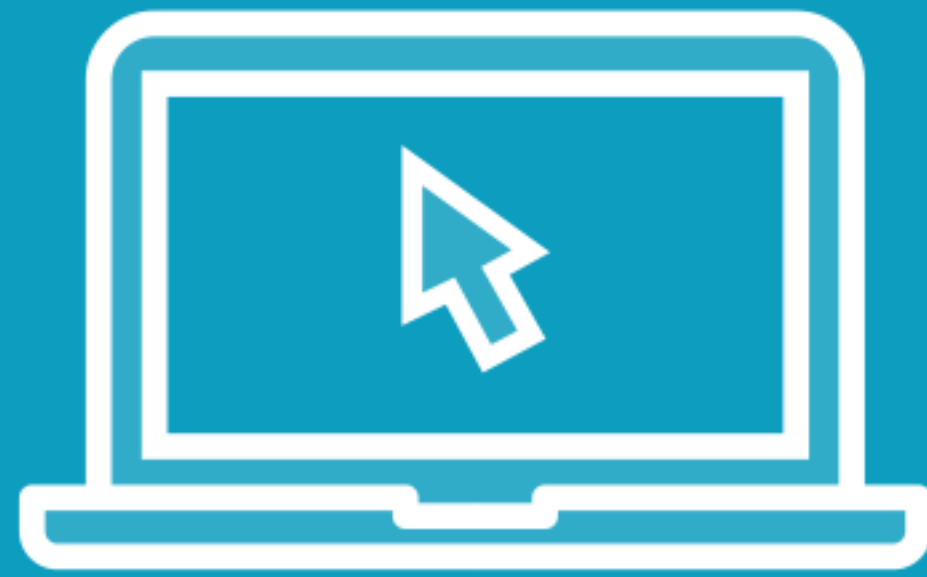
Place Holder for Screen Demo
Demo
IAM

Managed Policies

- AWSCodeDeployFullAccess: Grants full access to CodeDeploy.

- AWSCodeDeployDeployerAccess: Grants access to an IAM user to register and deploy revisions.

- AWSCodeDeployReadOnlyAccess: Grants read-only access to CodeDeploy.

- AWSCodeDeployRole: Allows CodeDeploy to identify EC2 instances by their Amazon EC2 tags or Amazon EC2 Auto Scaling group names, and on-premises instances by their on-premises instance tags, and to deploy application revisions to them accordingly. Provides permissions required to publish notifications to an Amazon SNS topic and retrieve information about alarms from CloudWatch.

- AWSCodeDeployRoleForLambda: Grants CodeDeploy permission to access AWS Lambda and any other resource required for a deployment.

- AWSCodeDeployRoleForECS: Grants CodeDeploy permission to access Amazon ECS and any other resource required for a deployment.

- AWSCodeDeployRoleForECSLimited: Grants CodeDeploy permission to access Amazon ECS and any other resource required for a deployment.

Monitoring AWS CodeDeploy Actions

Demo

Monitoring AWS CodeDeploy Actions
– CloudTrail Log entry for CodeDeploy

Place Holder for Screen
Demo
CloudTrail

Summary

CodeDeploy:

– Introduction

– An Overview of the Service

– Managing Permissions

– Monitoring CodeDeploy Actions