aws Devax connect

DevAx::connect Live will begin shortly



AWS Fargate: Deploying Java Spring Boot Apps on Serverless Containers

with AWS CDK

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Live Streaming @ 27 March (Friday)

5:00 PM (GMT+7)

Intro & Agenda

- Who Am I?
 - AWS Developer Specialist
- AWS Developer Acceleration (DevAx)
 - Accelerate developers' learning and building apps on AWS
 - DevAx::connect LIVE
- Tonight Deploy a java Spring Boot Application (API) on AWS
 - Containerize!
 - No servers! No Instances!



A Simple Note Taking API

REST API:

- Create a "note" entry with "title" and "content"
- List all "notes"

Local laptop development:

- Docker container -> java spring boot
- Docker container -> mysql



A Simple Note Taking API – to the cloud

I want to deploy my containerized Spring boot app on AWS.

Requirements:

- Scalable containerize application without managing servers
- Auto Scaling of containers
- Centralized application logging
- Cloudwatch dashboard
- Secure, protect sensitive data eg: database password



Base Infra and database – No Servers!

VPC

- NAT gateway
- Subnets

Amazon ECS Fargate Cluster

Amazon RDS – MySQL Engine

* Amazon Aurora Serverless

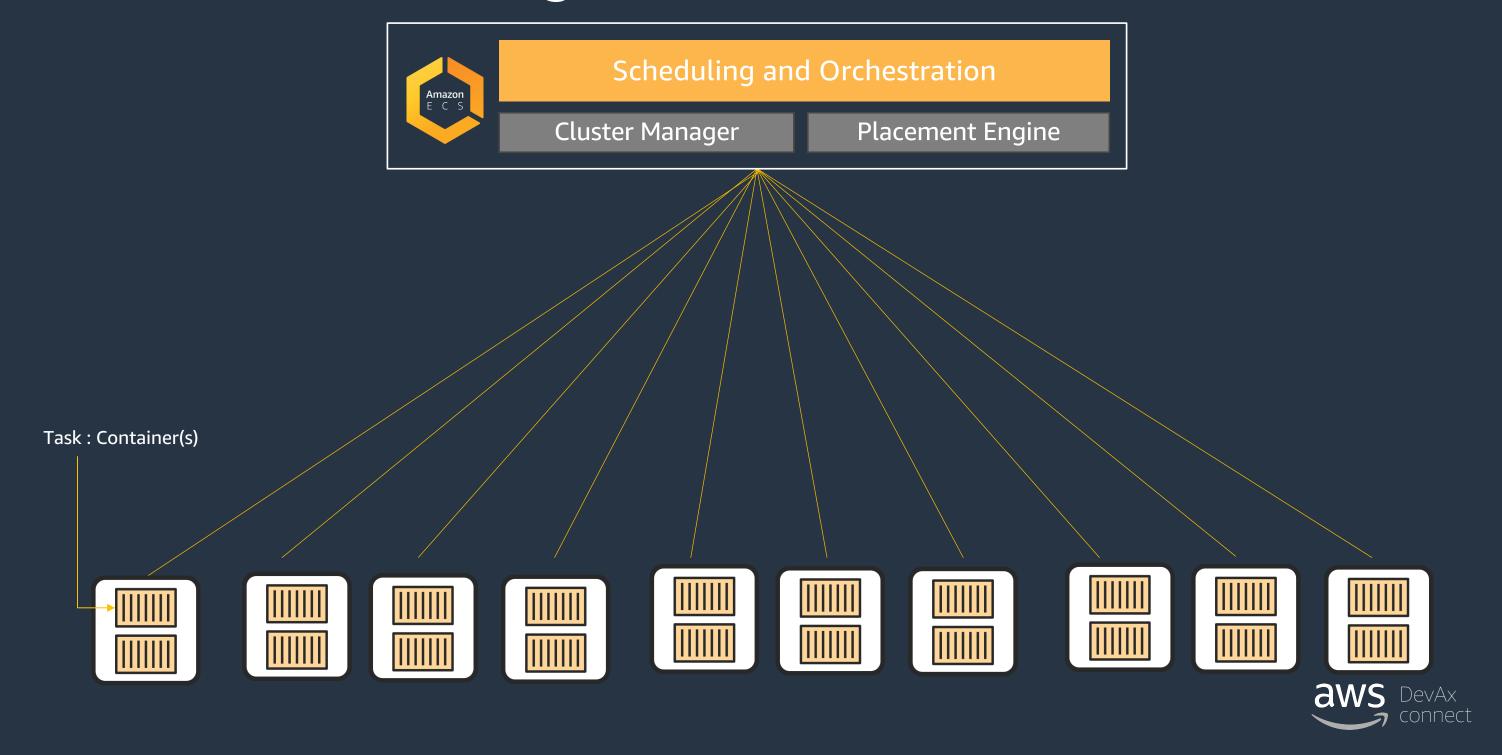


Spring boot with AWS Fargate – Base Infra

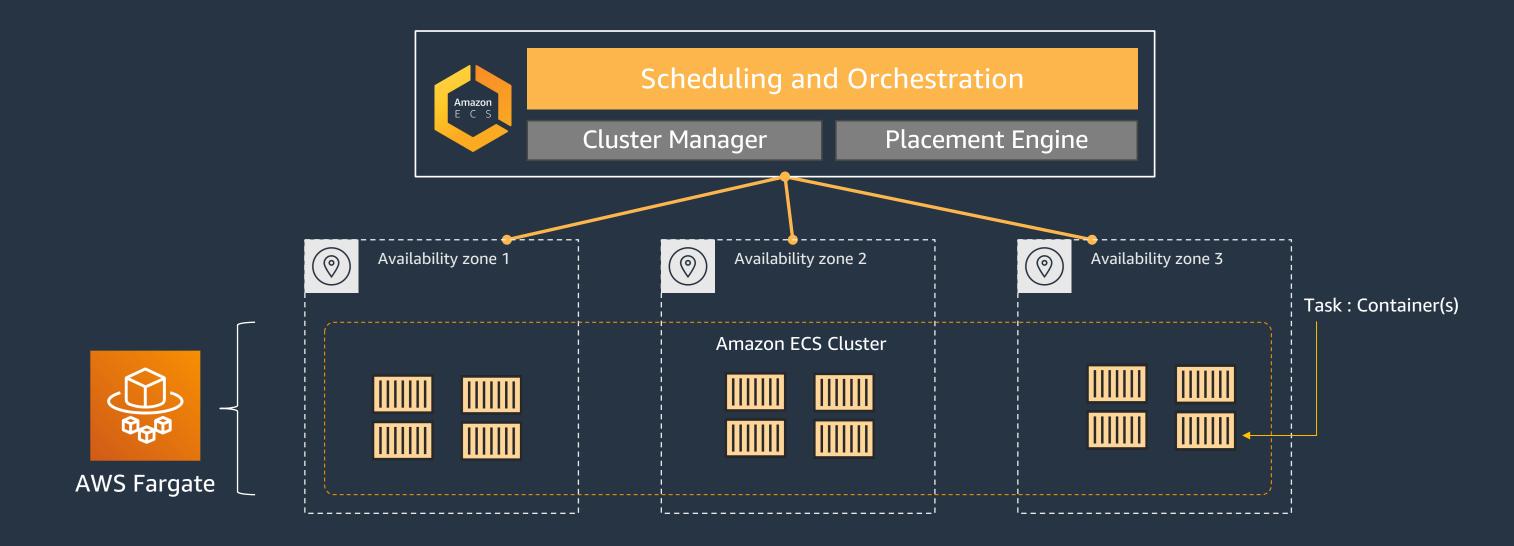




Amazon ECS – using EC2

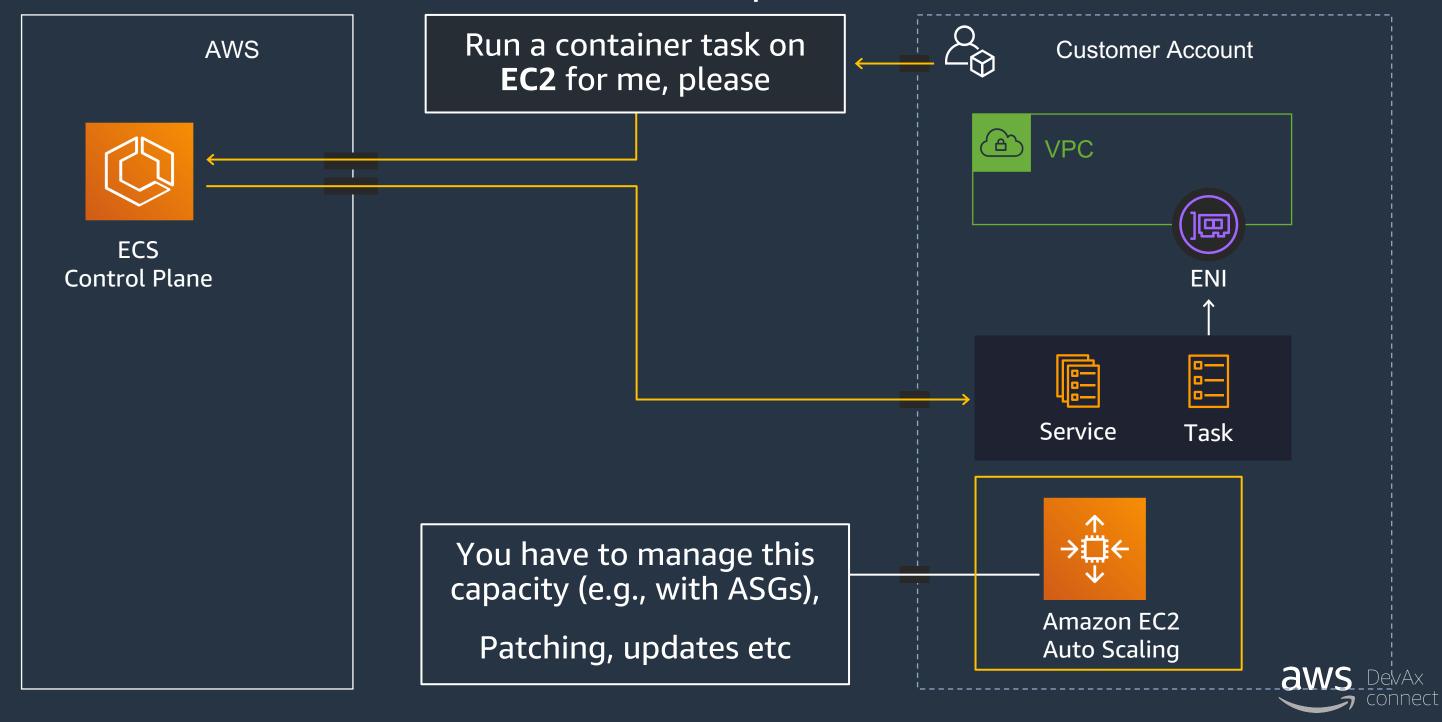


Amazon ECS – using AWS Fargate

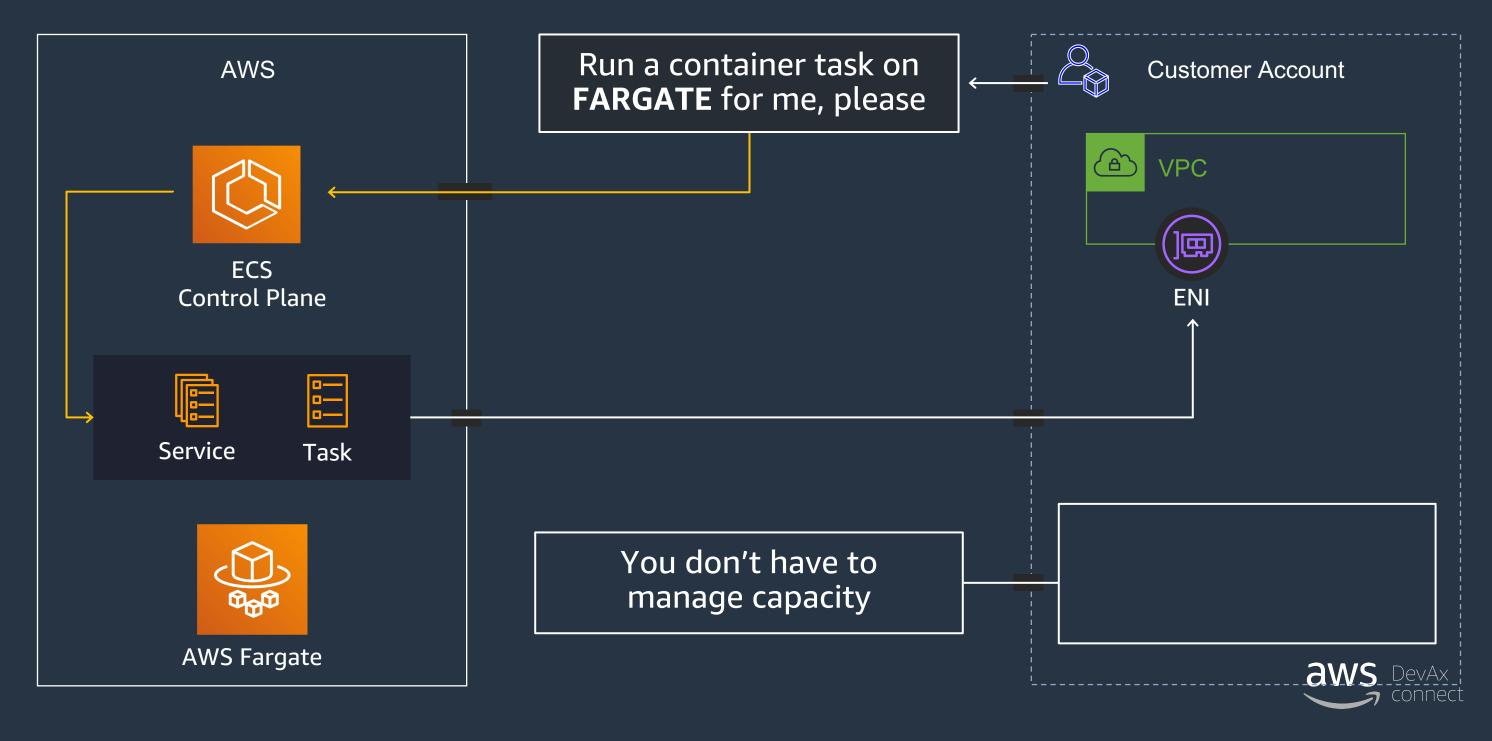




Amazon ECS with EC2 data plane



Amazon ECS with Fargate data plane



Amazon Aurora Serverless

Fully Managed, no instances to manage

MySQL-compatible and **PostgreSQL**-compatible

No need to provision for peak

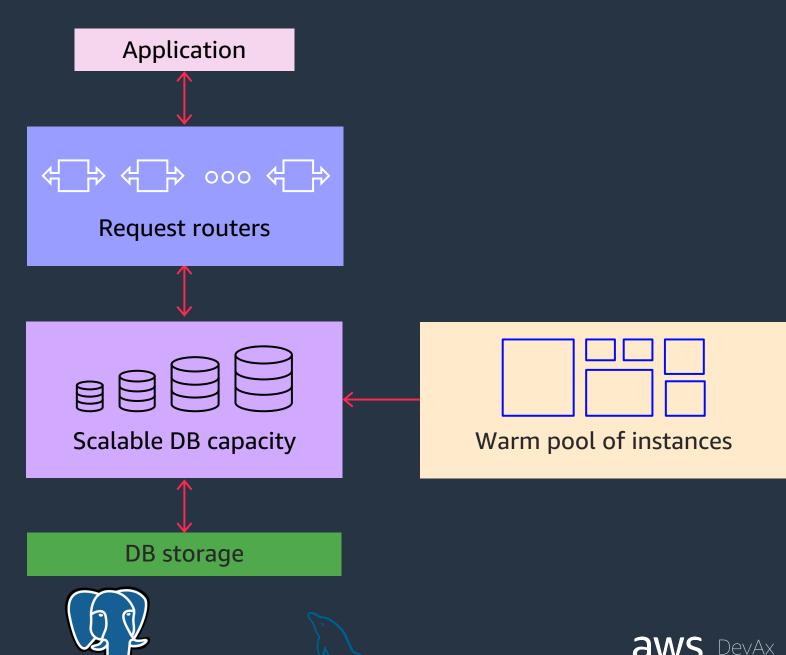
Starts up on demand; shuts down when not in use

Scales up/down automatically

No application impact when scaling

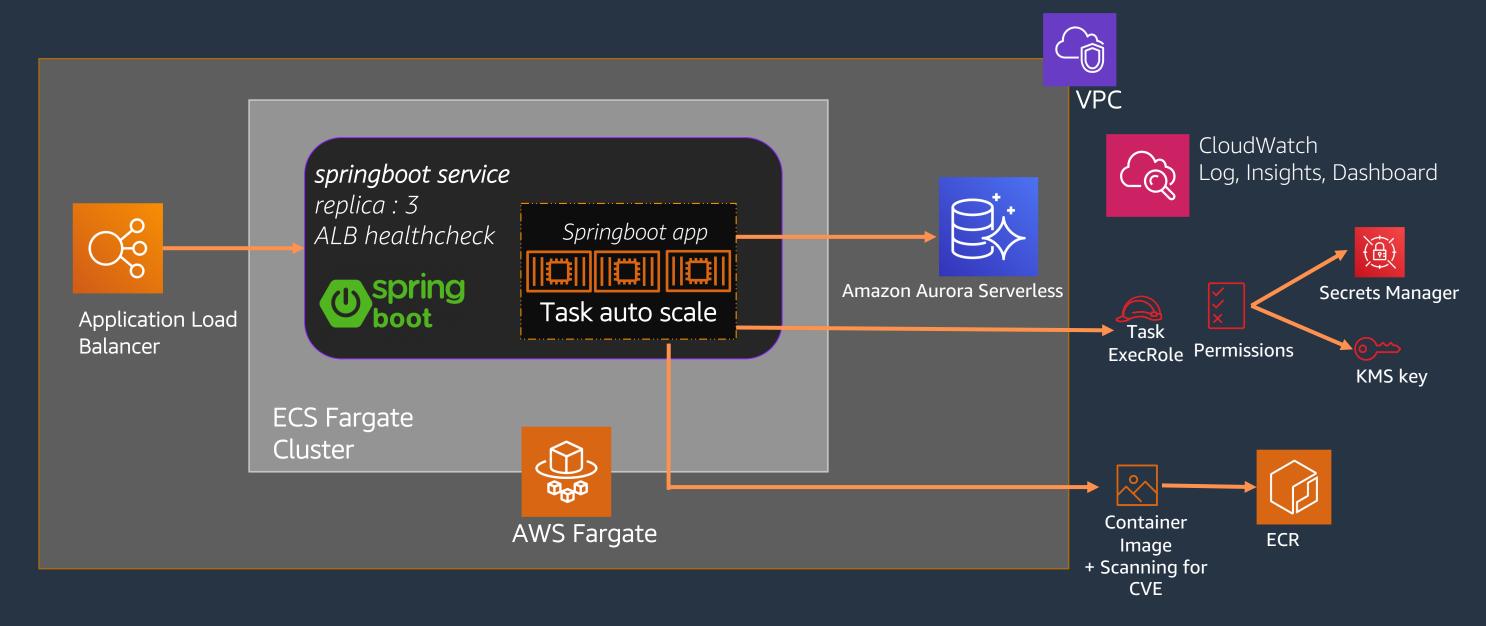
Pay per second, one-minute minimum

Great for infrequently used, unpredictable, or cyclical workloads



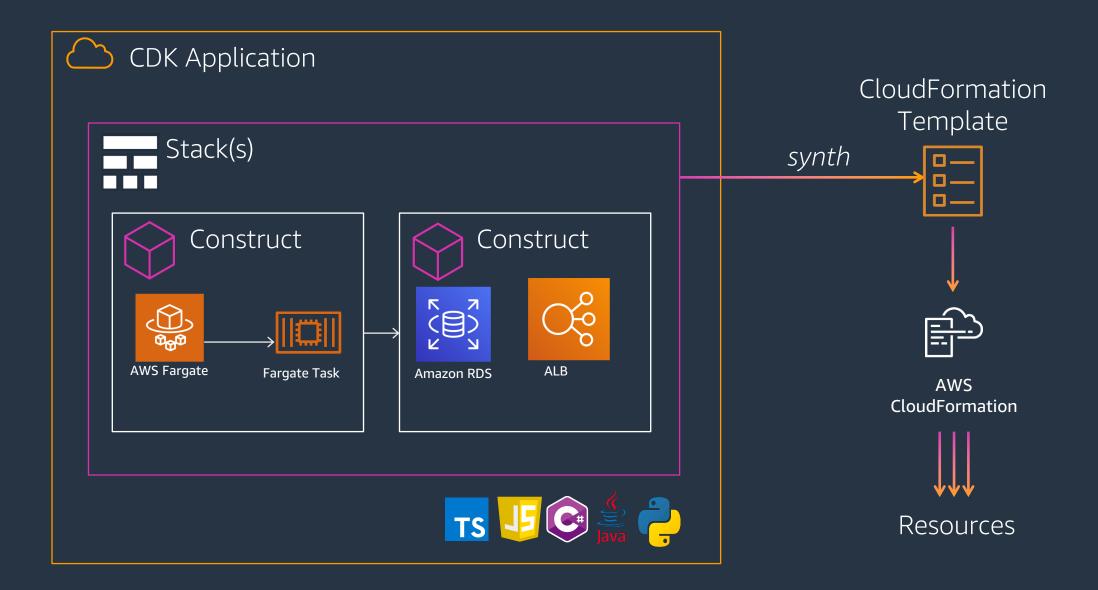


Spring boot Applications with AWS Fargate





AWS Cloud Development Kit





Demo

https://github.com/enghwa/springboot-fargate-cdk



Thank you!

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Feedback & Survey: http://bit.ly/3d5gSAd

