AWS SAA + SysOps + Developer + DevOps Course #Day-59

We will start at 8 AM, Stay tuned





Recap:

- Docker & Containers
 - Virtualization problems
 - Containerization
 - Container Registry
- Demos
 - Docker
- ECR Elastic Container Registry
- Docker Desktop



Today's topics:

- Docker Desktop (local)
- Task Definition
- ECS Elastic Container Service
 - Demo –Launch a container on EC2 mode
- ECS Fargate mode
 - Demo –Launch a container on Fargate mode





ECR – Elastic Container Registry

ECR – Elastic Container Registry

- Managed container image registry service
- ..like Docker hub.. But for AWS
- Each AWS account has a public and private registry by default
- Each registry can have multiple image repositories
- Each repository can have multiple images
- Images can have several tags
- Integrated with IAM service for permissions management
- Images replication cross region cross account

Demo – ECR – Elastic Container Registry

- Create an image repository
- Push the image from EC2 to ECR







AWS Managed Container Service

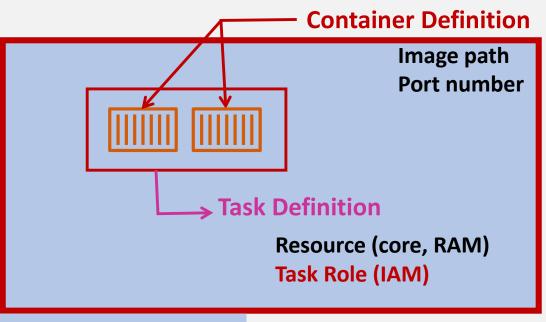


EC2 Mode

Fargate (serverless)



Registry



Service Definition

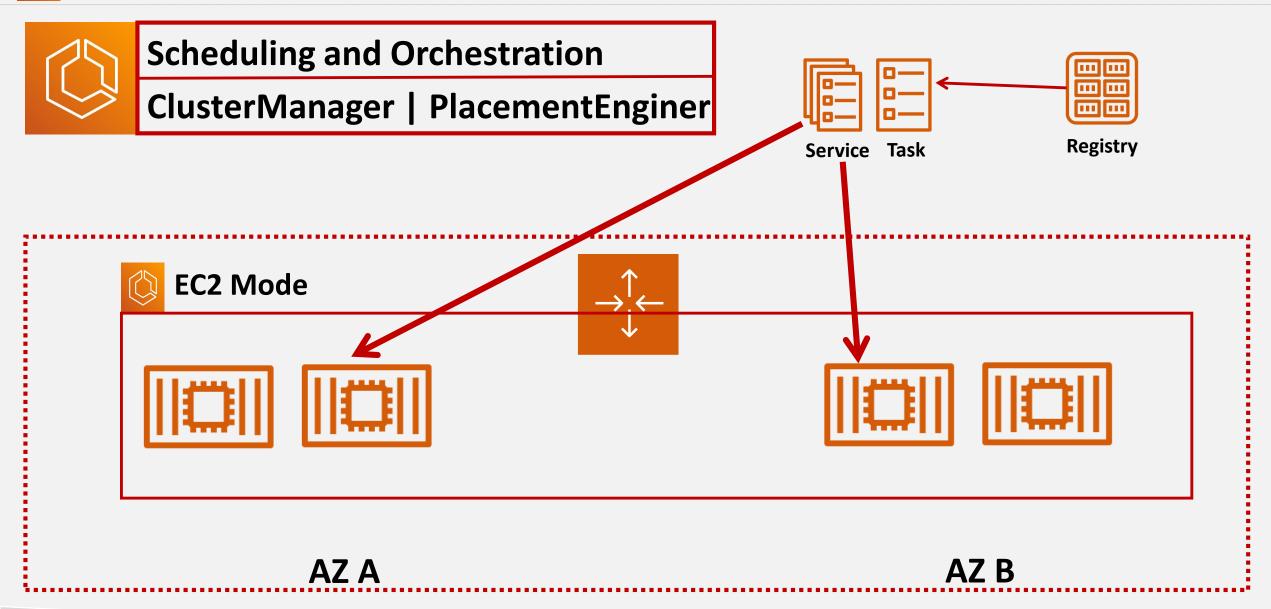
How many copies load balancer



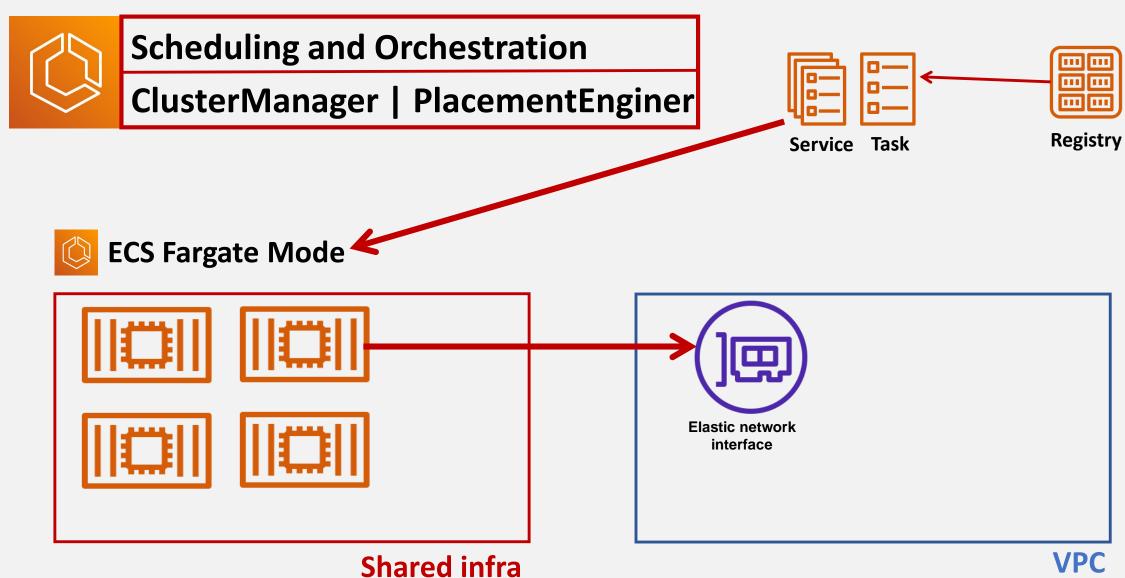
ECS - Concepts

- Container definition image & ports
- Task definition Security (Task role), containers, resources
- Task Role IAM role which the task assumes
- Service how many copies, HA, load balancer

- EC2 mode
- Fargate mode
- .. Both varies in
- Cost difference
- What you manage and what AWS manage
- More admin work and less admin work







- If you use containers ... choose ECS (EC2 / Fargate)
- Large workload Price conscious EC2 mode
- Large workload Overhead conscious Fargate mode
- Small / burst workloads Fargate
- Batch / periodic operations Fargate

Demo – ECS - Fargate







Thank you, will meet in tomorrow's session



