

Deploying and running (Java) apps on AWS

Ivan Turčinović

ivan.turcinovic@inovatrend.com





Compute

EC2
EC2 Container Service
Lightsail [↗](#)
Elastic Beanstalk
Lambda
Batch



Storage

S3
EFS
Glacier
Storage Gateway



Database

RDS
DynamoDB
ElastiCache
Redshift



Networking & Content Delivery

VPC
CloudFront
Direct Connect
Route 53



Migration

Application Discovery Service
DMS
Server Migration
Snowball



Developer Tools

CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
X-Ray



Management Tools

CloudWatch
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Trusted Advisor
Managed Services



Security, Identity & Compliance

IAM
Inspector
Certificate Manager
Directory Service
WAF & Shield
Compliance Reports



Analytics

Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
Data Pipeline
QuickSight [↗](#)



Artificial Intelligence

Lex
Polly
Rekognition
Machine Learning



Internet Of Things

AWS IoT



Contact Center

Amazon Connect



Game Development

Amazon GameLift



Mobile Services

Mobile Hub
Cognito
Device Farm
Mobile Analytics
Pinpoint



Application Services

Step Functions
SWF
API Gateway
Elastic Transcoder



Messaging

Simple Queue Service
Simple Notification Service
SES



Business Productivity

WorkDocs
WorkMail
Amazon Chime [↗](#)



Desktop & App Streaming

WorkSpaces
AppStream 2.0



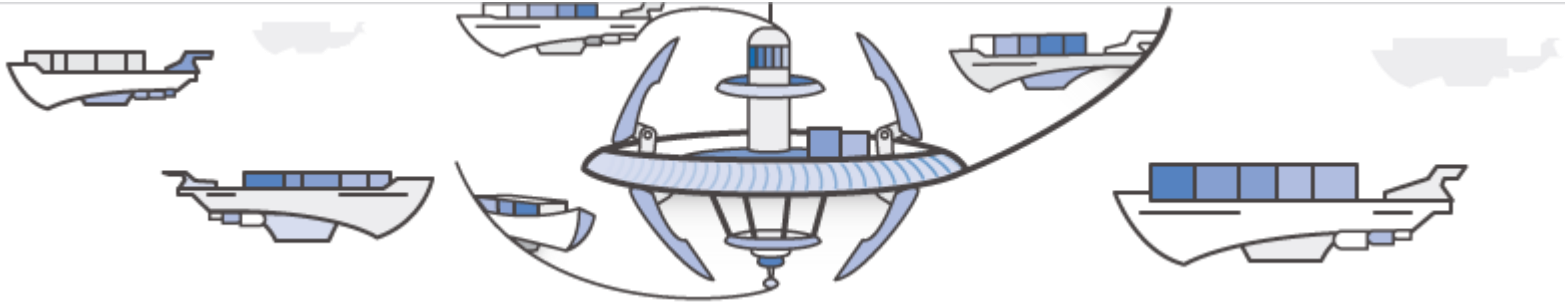
BUILD, SHIP, RUN.

An open platform for distributed applications
for developers and sysadmins.



<https://media.licdn.com/media/AAEAAQAAAAAAAAAIEAAAAJDNmODQ3ODhLLWRmMWetNDFmNS1iYTk2LWRmNDI1OGZhMGEzNg.png>

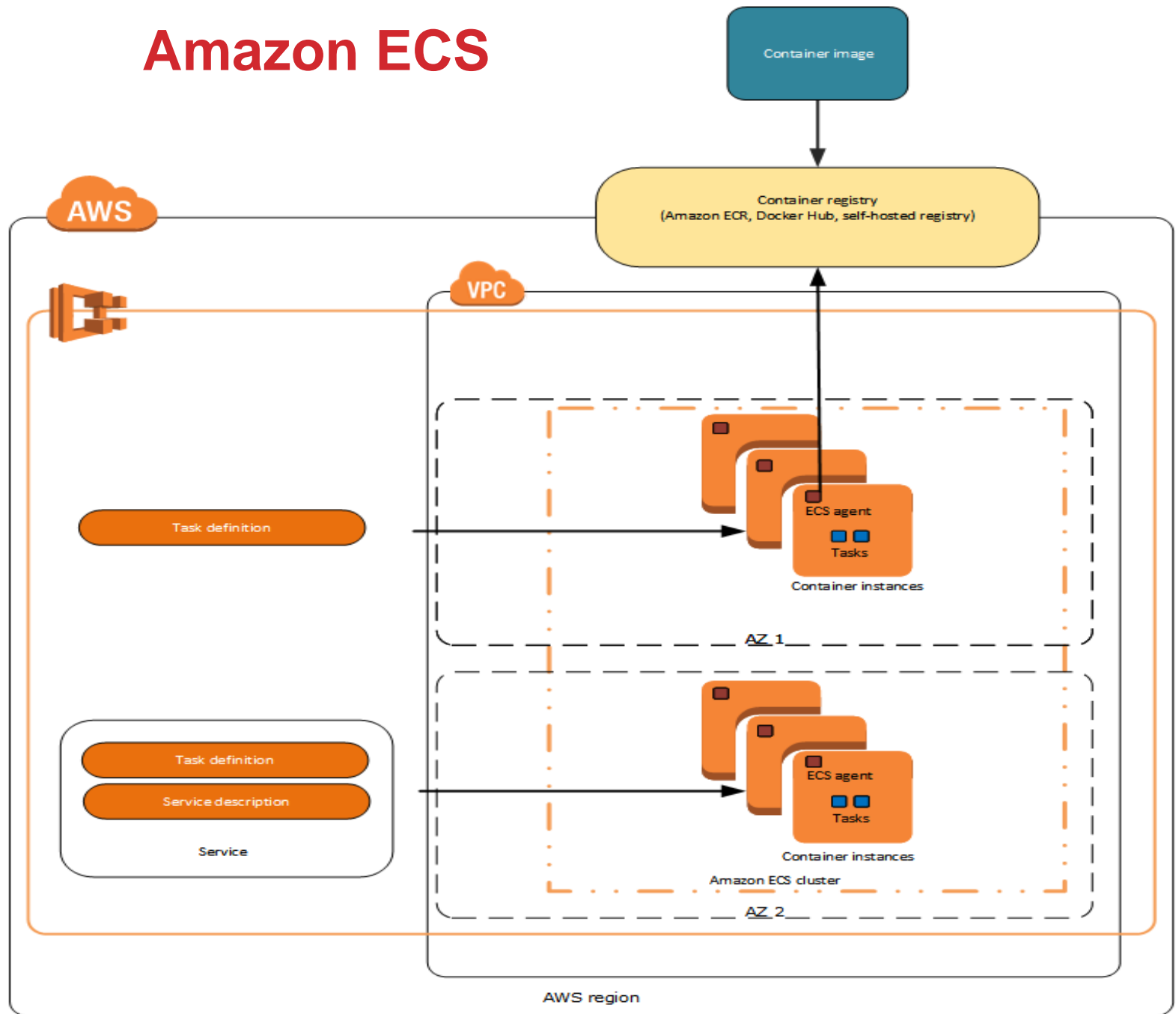
Amazon EC2 Container Service (ECS)



https://d0.awsstatic.com/product-marketing/EC2%20Container%20Service/AmazonEC2ContainerService_ProductDetail.png

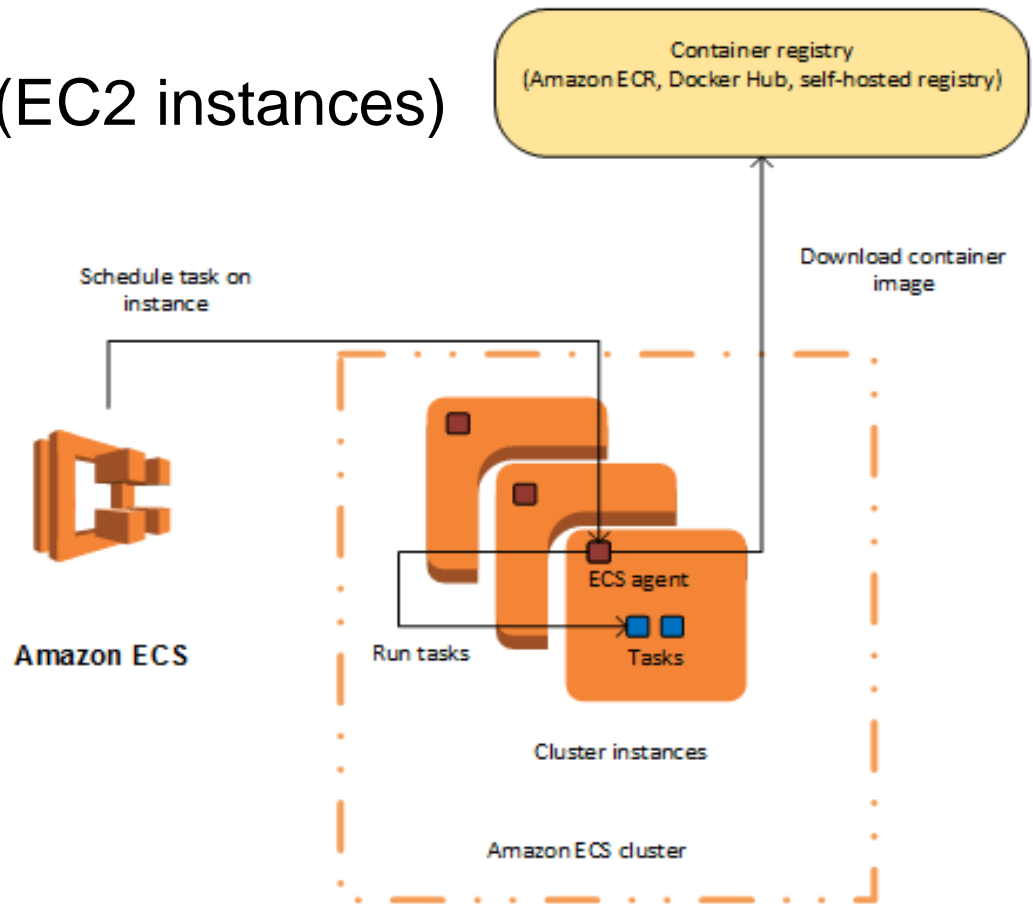
A highly scalable, high performance container management service that supports Docker containers and allows you to easily run applications on a managed cluster of Amazon EC2 instances

Amazon ECS



ECS elements

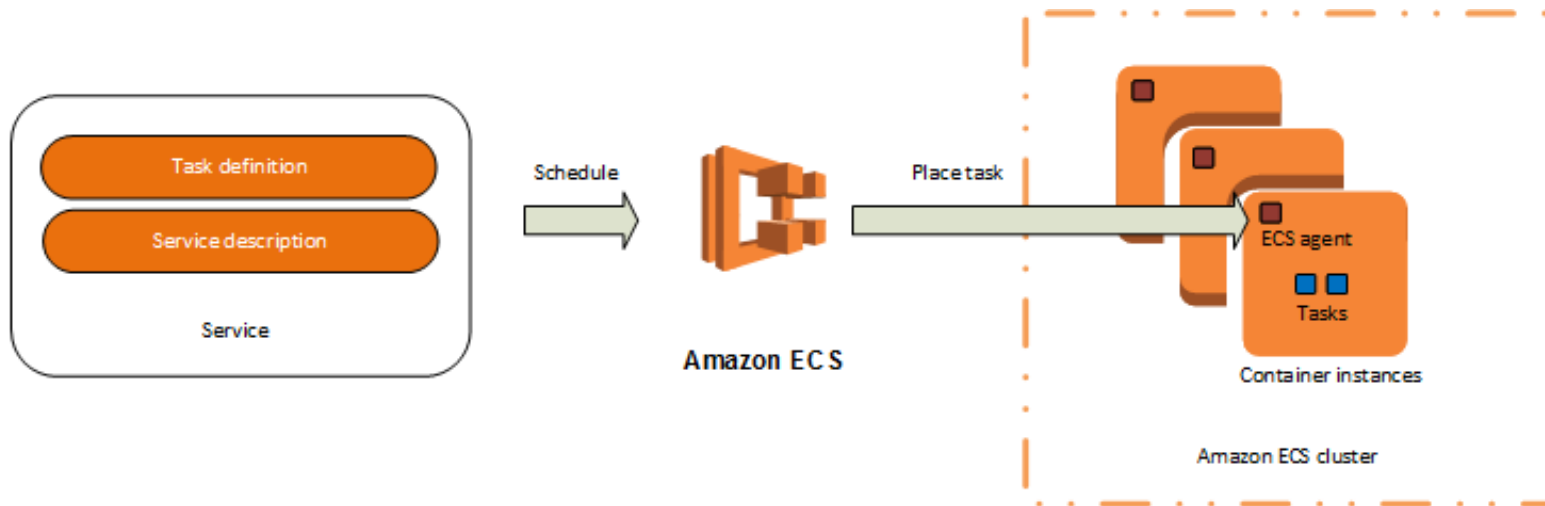
- ❑ clusters
- ❑ container instances (EC2 instances)
- ❑ container agent



<http://docs.aws.amazon.com/AmazonECS/latest/developerguide/images/overview-clusteragent.png>

ECS elements (2)

- Task definition
 - Container definitions
- Services
- Task scheduling
 - third party scheduling




<http://docs.aws.amazon.com/AmazonECS/latest/developerguide/images/overview-service.png>

Amazon EC2 Container Registry (ECR)

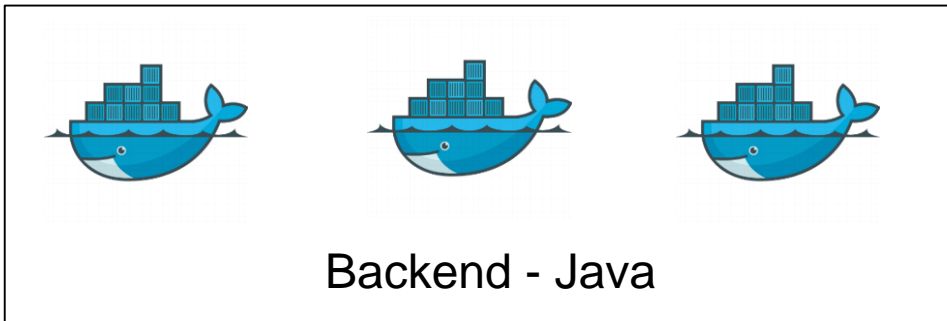
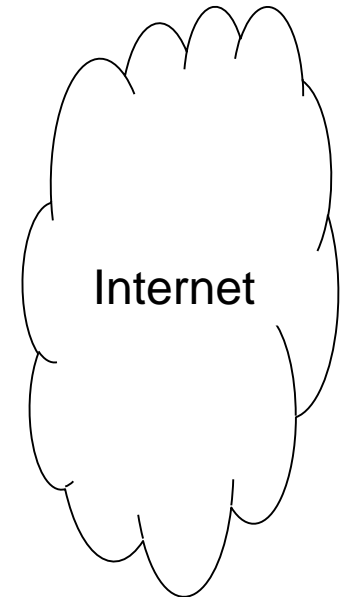
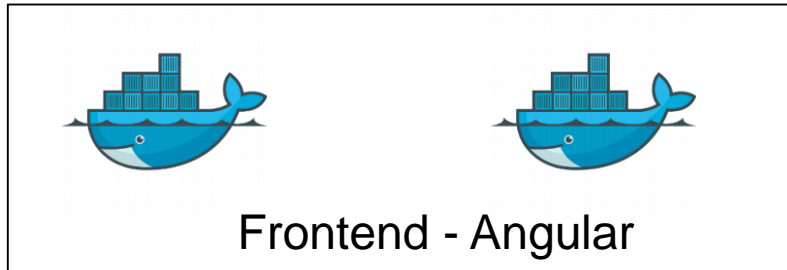
- Amazon EC2 Container Registry (ECR) is a fully-managed Docker container registry that makes it easy for developers to store, manage, and deploy Docker container images.

- Amazon ECR is integrated with Amazon EC2 Container Service (ECS), simplifying your development to production workflow.

App deployment to ECS

Java
+
Git
+
Jenkins
+
AWS ECS CLI
+
AWS ECR / ECS
=


Demo app architecture



Amazon RDS

DEMO TIME

Thank You!

