



# Migrate Microsoft Applications to AWS like an Expert (Level 200)

Sriwantha Attanayake, Partner Solution Architect

### We will discuss a few migration options out of many....

1. AWS VM Import/Export

2. AWS Server Migration Service

3. Migrate Using Containers - Demo





### Lift & Shift

You can run Windows 2003 on AWS

AWS supports 32bit operating systems

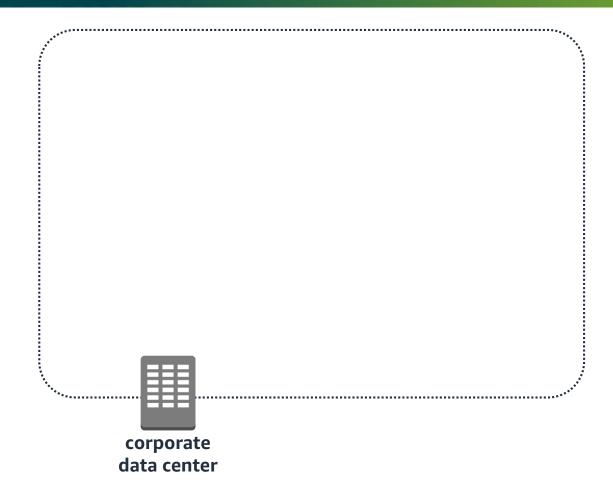
Fist lift and shift then think about OS modernization





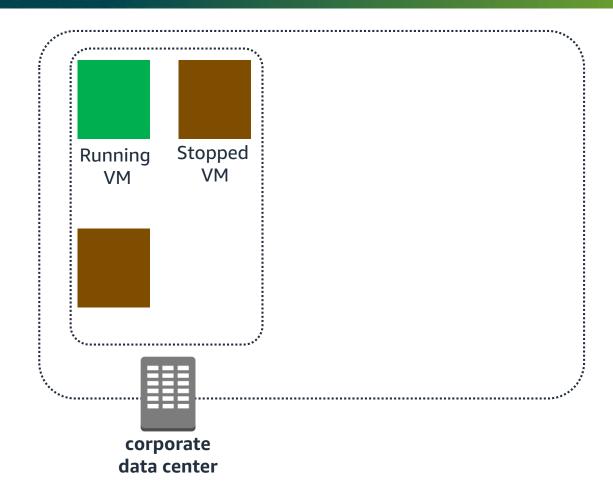






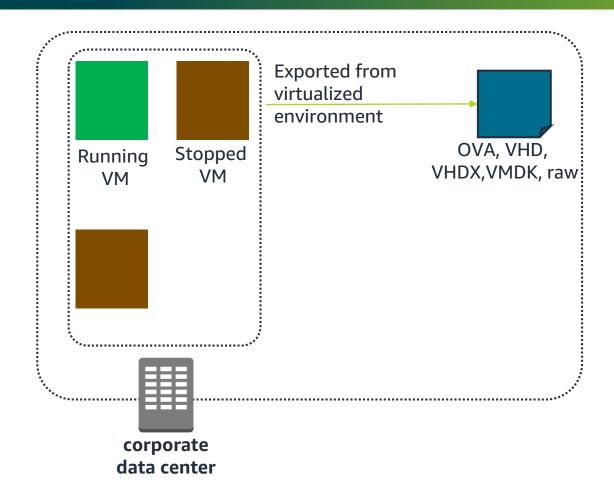






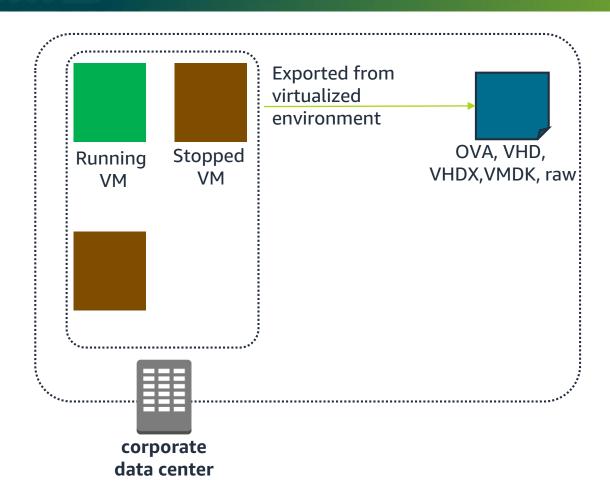


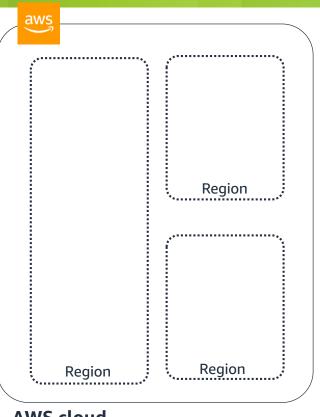








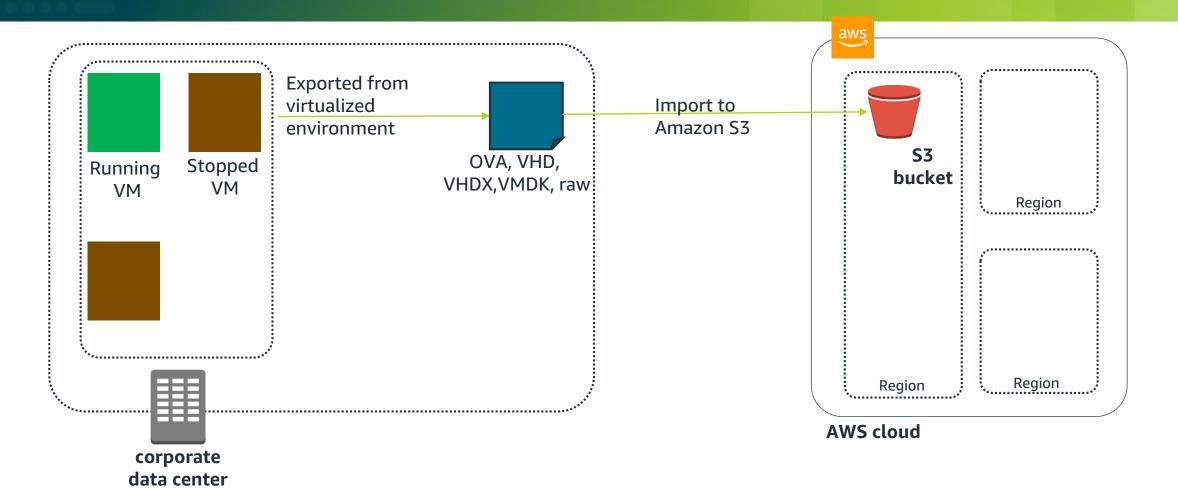




**AWS cloud** 

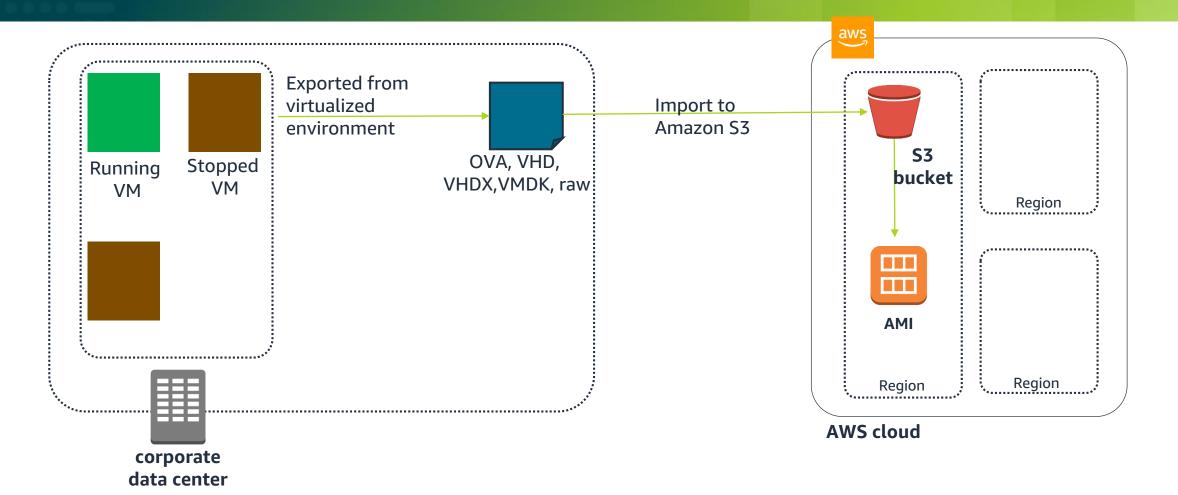






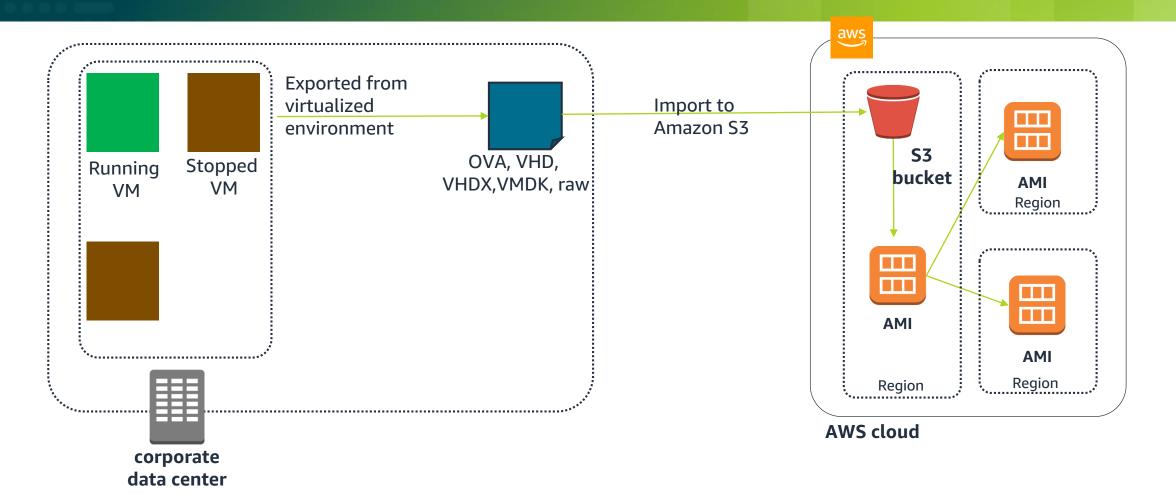






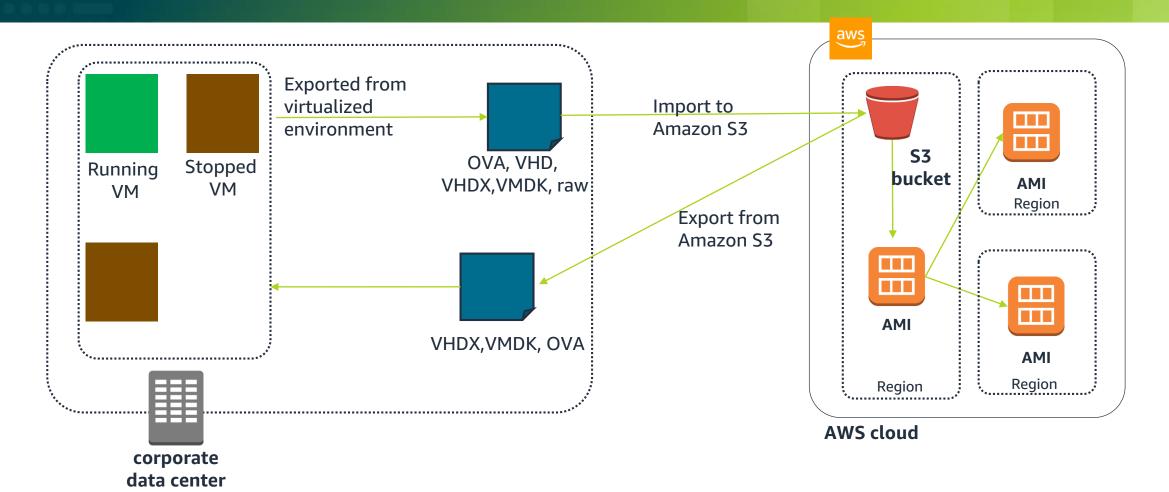






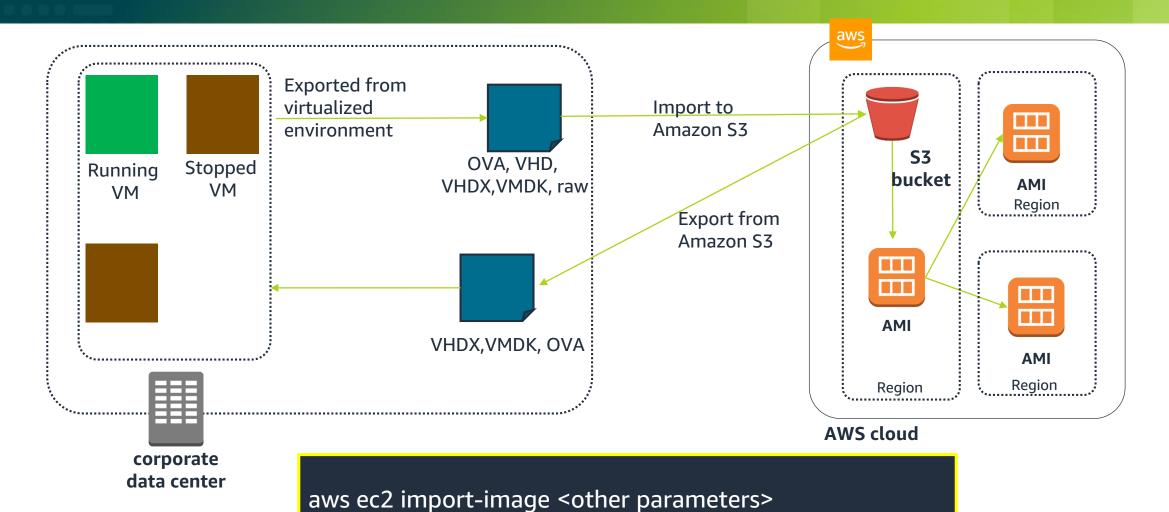












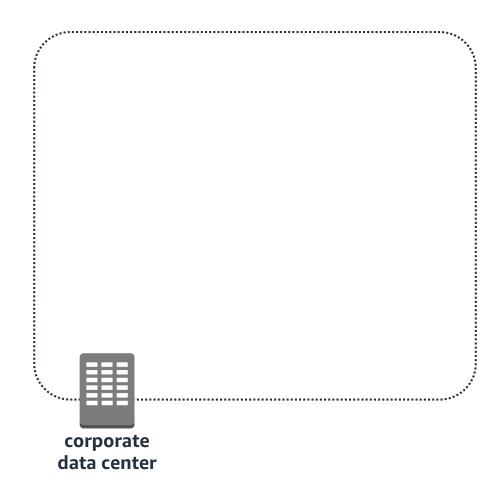
aws ec2 create-instance-export-task <other parameters>





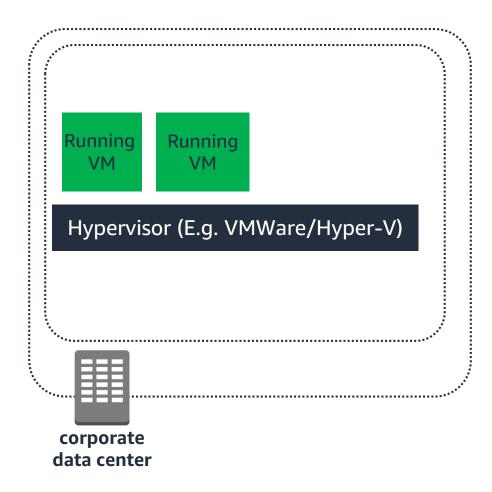






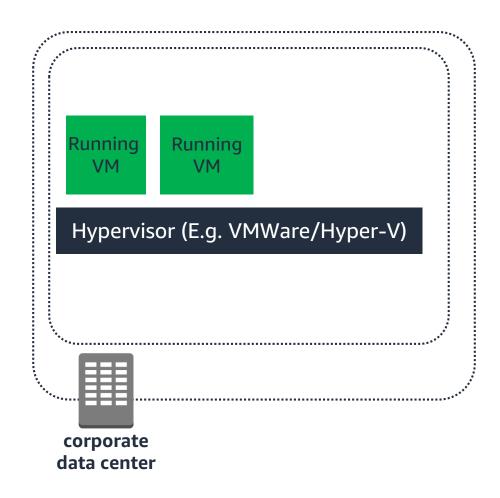








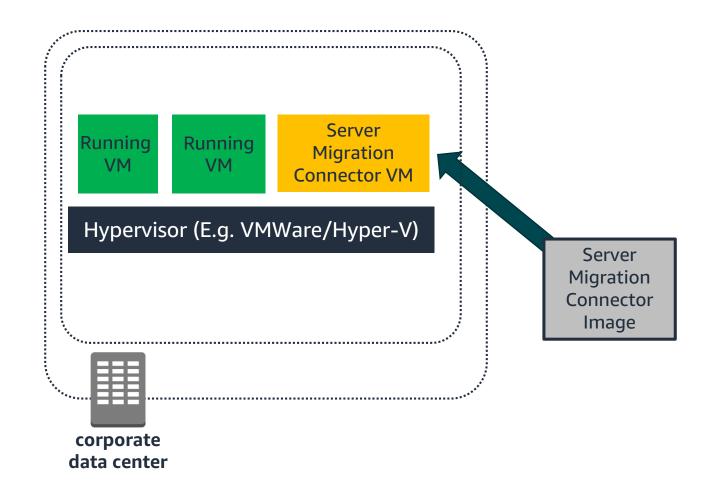




Server Migration Connector Image

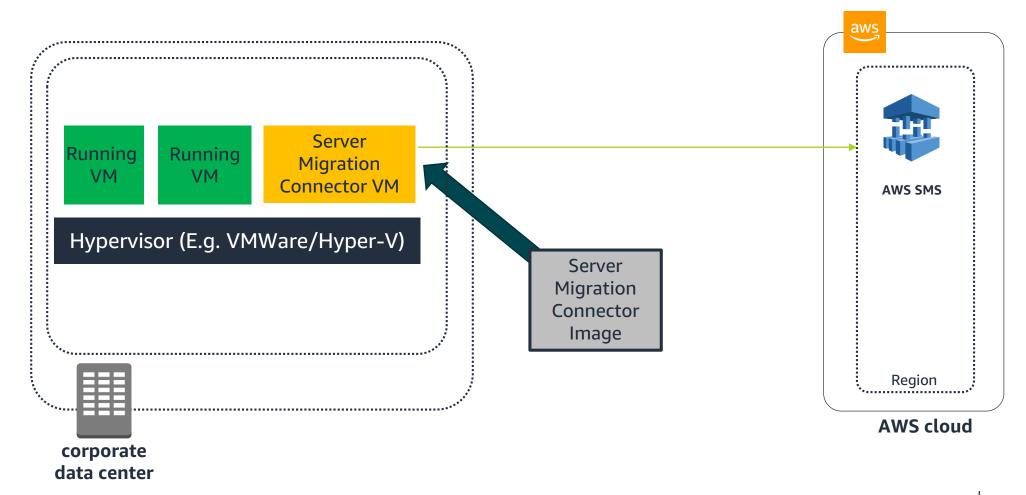






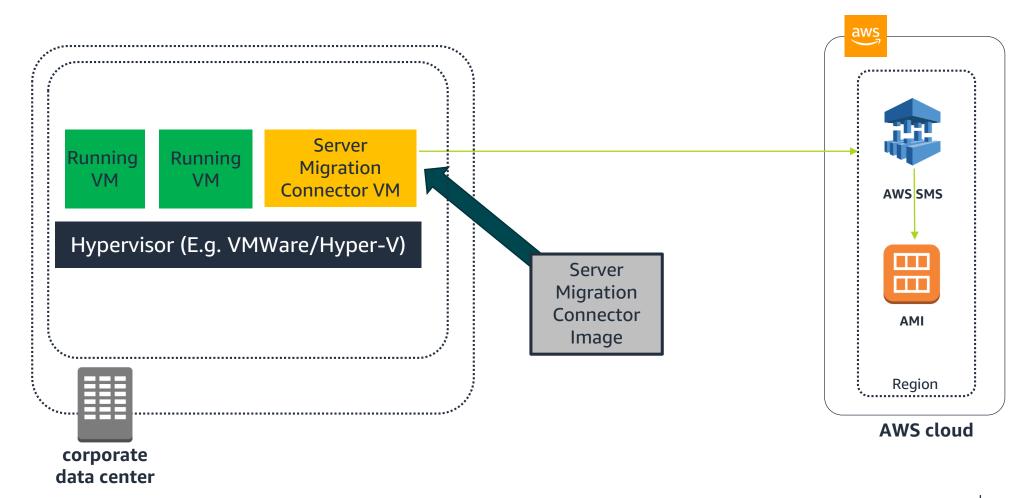
















#### How it feels like

**AWS Server Migration Service** ₹ Edit AWS Server Migration Service Settings

AWS Region ap-south-1

Connector ID c-56z7nlpamjmx65xai

Number of parallel uploads allowed based on memory available on this 10

connector

Service Connectivity Check 2017-11-21T11:40:05.229Z

vCenter Connectivity Check 2017-11-21T11:40:04.741Z View info

vCenter Server Hostname/IP 192.168.102.113

vCenter Service Account vsphere.local\vmmigration

**General Health** 

AWS access key ID AKIAINBNBTTPUSURN4XA

AWS connectivity

Connector registered IP address is

current

Connector up-to-date Version: 1.0.8.44

IAM user ARN arn:aws:iam::090143607121:user/AWSConne ctor

0

0

Poller Service

System time synchronization View info

Actions

Unregister AWS Server Migration Service

Rotate encryption key

Upload connector certificate

Change admin password

Disable Auto-Upgrade

Enable certificate validation

Support Links

Getting Started with AWS Server Migration Service

Documentation

Download log bundle

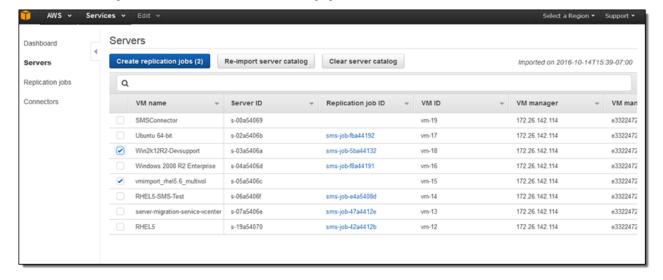
Report a problem to AWS



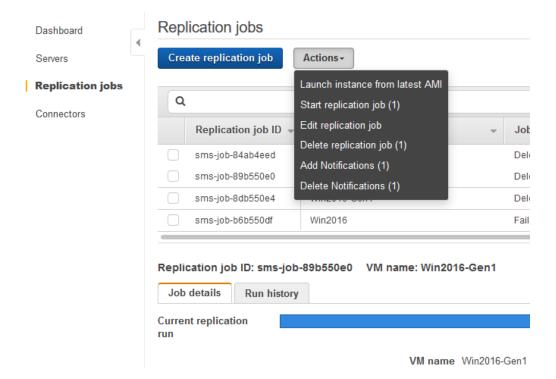


#### How it feels like

#### Your on premises servers appear on AWS SMS console



Start a replication jobs. Once the replication is done, spin up an EC2 instance out of it.

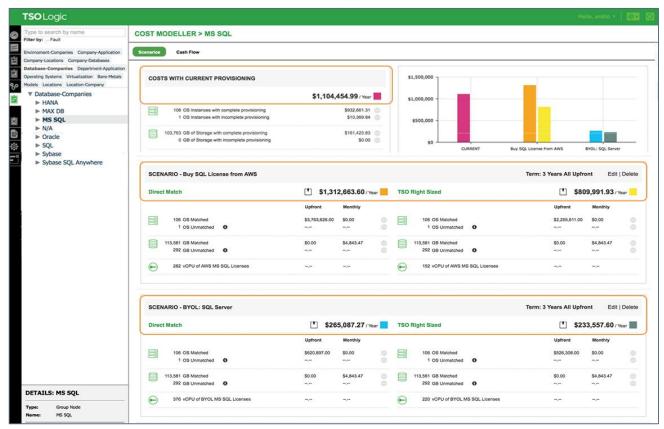






#### Partner Solutions

### **TSO** Logic









#### Containers

Once the applications are containerize, the migration is super easy

Containers are portable across cloud service providers

Windows 2016 has native Docker support





**VM** 

#### **Containers**





**VM** 

**Containers** 

Server

Server





**VM** 

**Containers** 

Host OS

Server

Host OS

Server





**VM** 

**Containers** 

Hypervisor

Host OS

Server

Host OS

Server





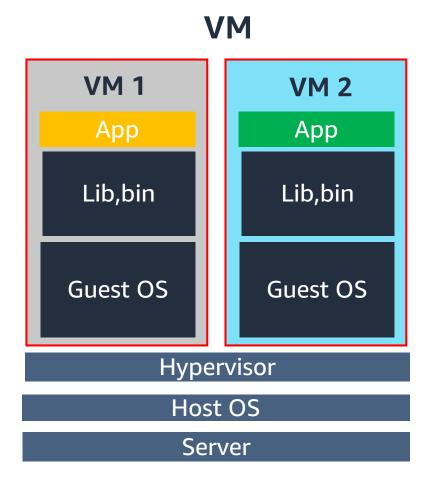
#### **VM VM 1** VM 2 App App Lib,bin Lib,bin Guest OS Guest OS Hypervisor Host OS Server

#### **Containers**

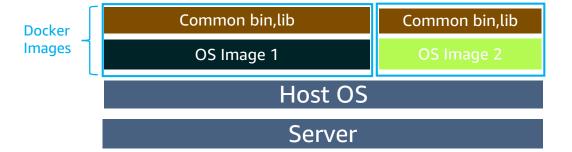
Host OS Server





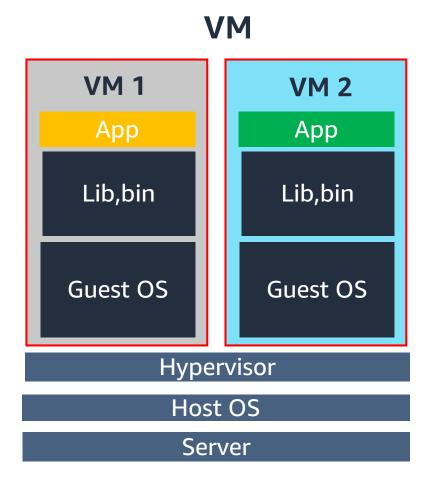


#### **Containers**

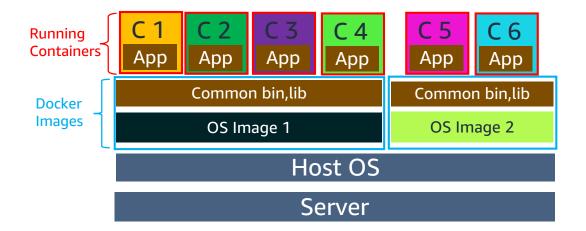






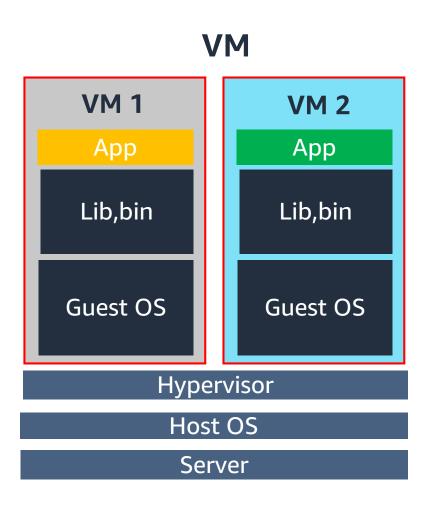


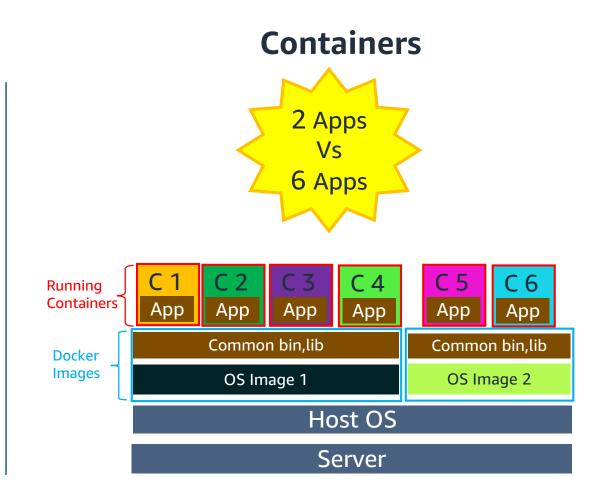
#### **Containers**















Application 1

Application 2





Application 1

Application 2

10GB

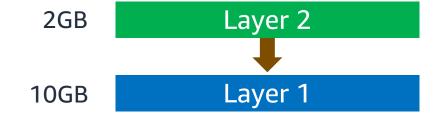
Layer 1





Application 1

Application 2

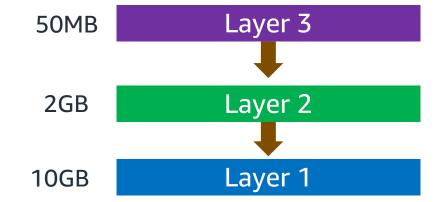






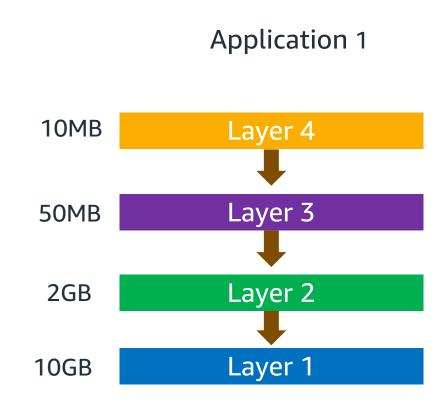
Application 1

Application 2





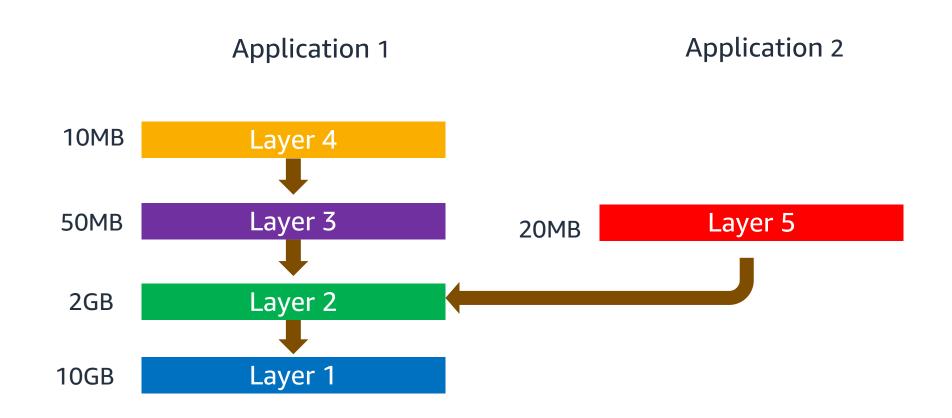




#### Application 2

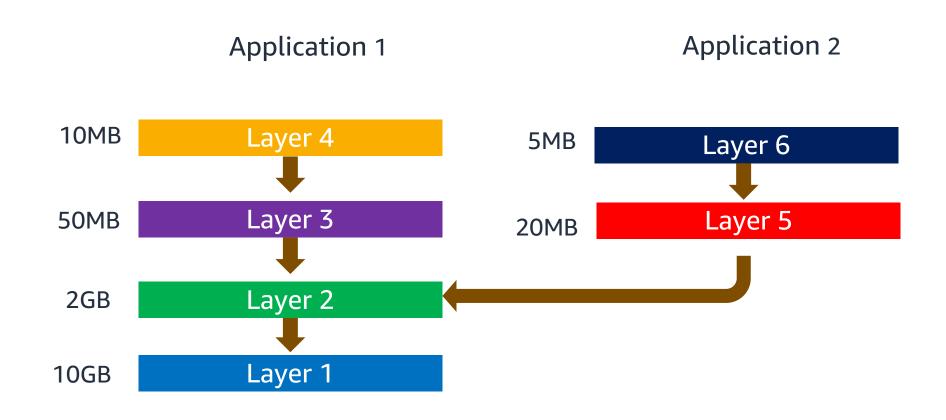






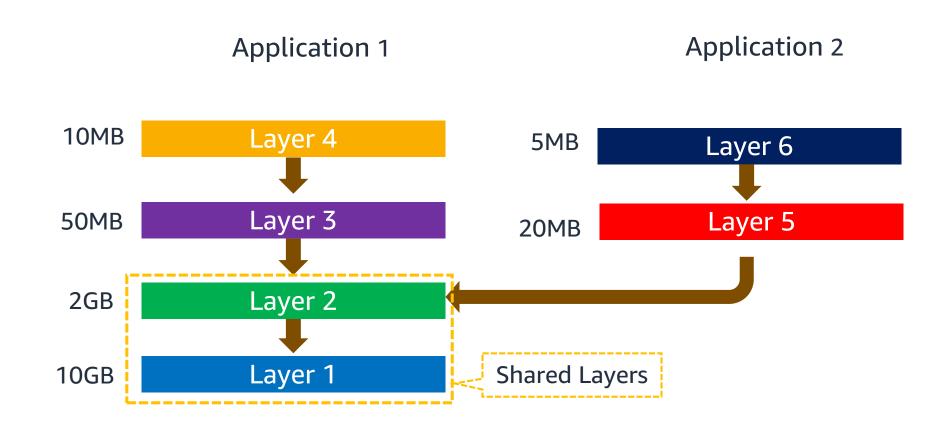














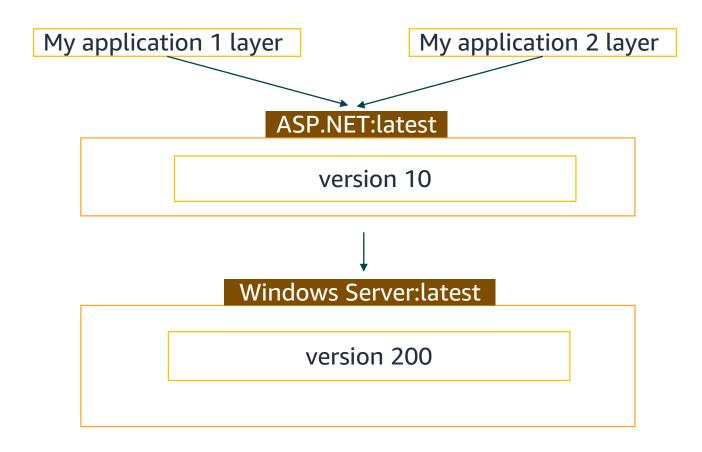


#### **Application 1**

#### Application 2

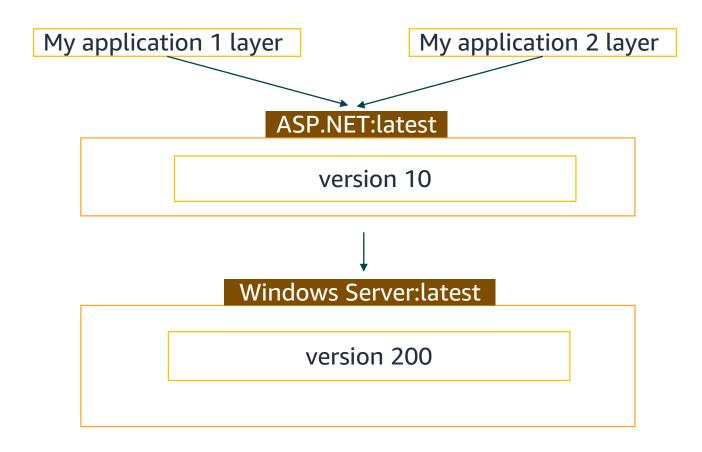






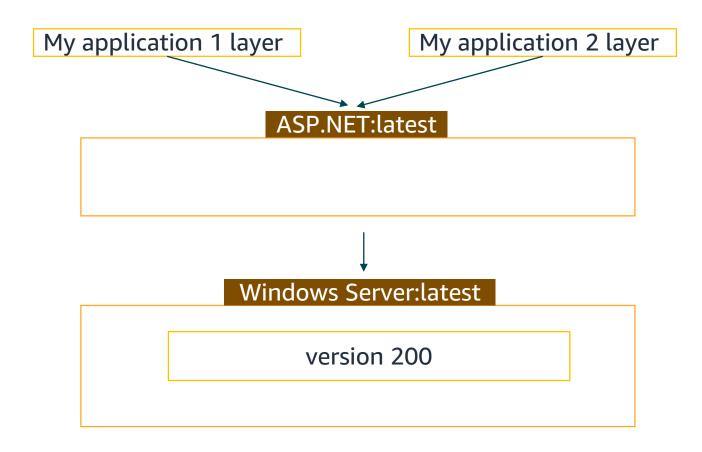






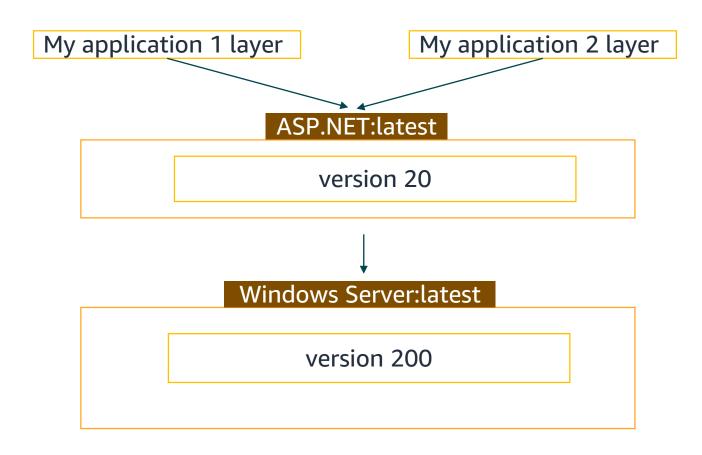






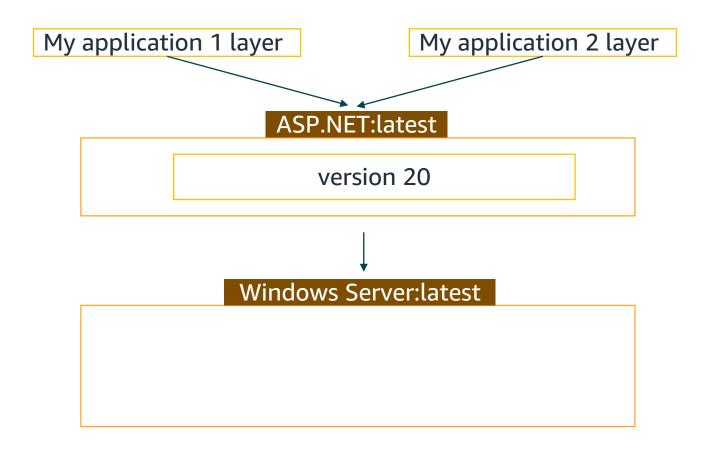






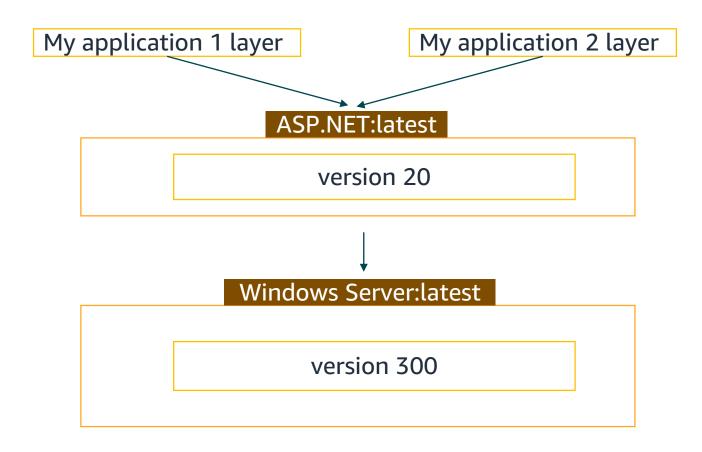
















### Let's containerize a simple exe application...

#### Demo















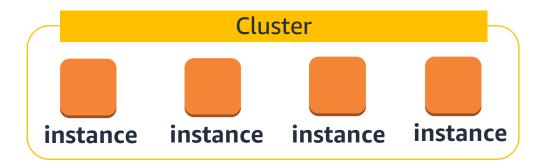






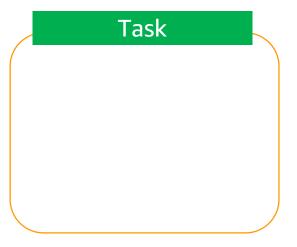


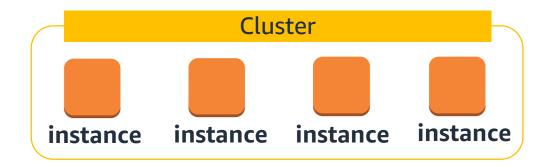






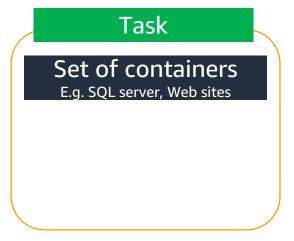


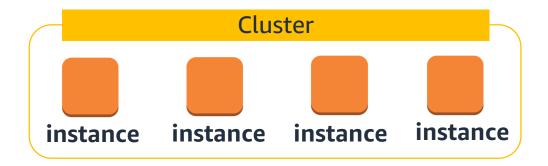






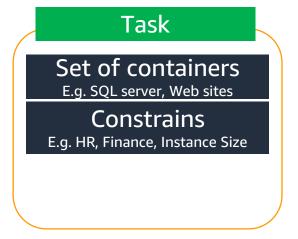


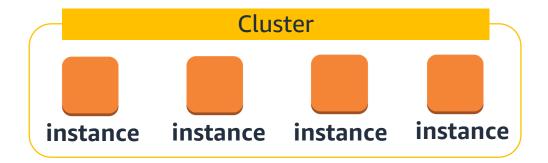






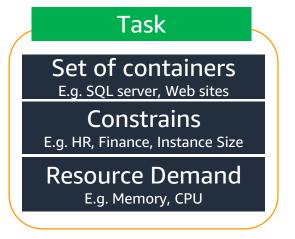


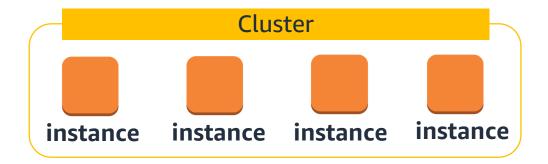






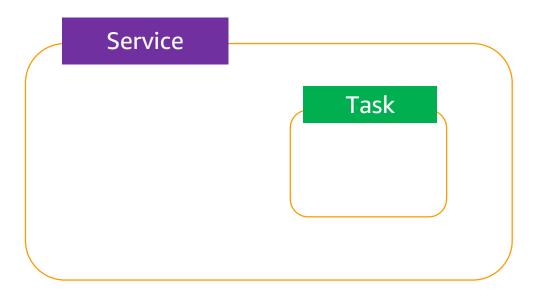


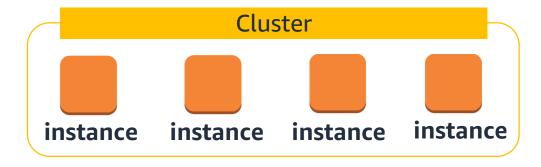






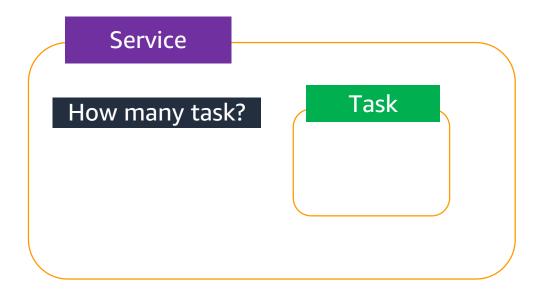


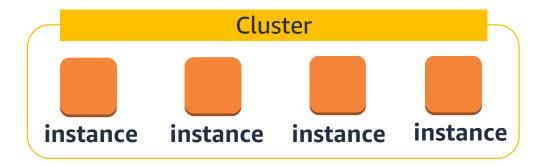






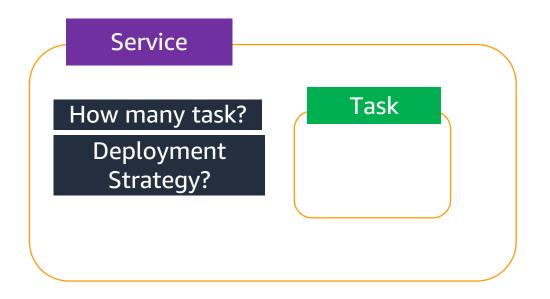


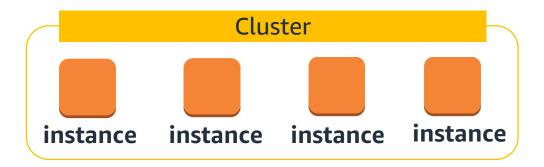






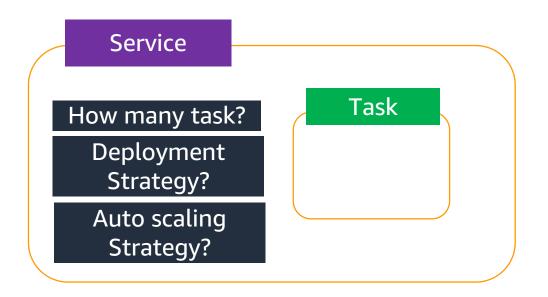


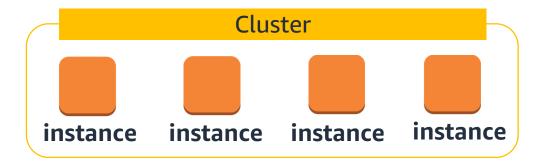
















Bin Packing





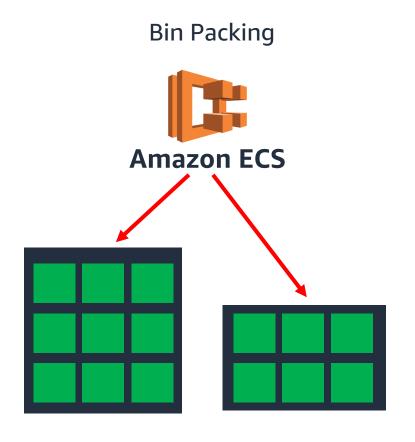
**Balance Spread** 















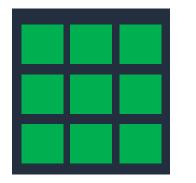






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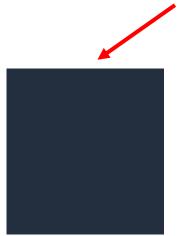






**Balance Spread** 





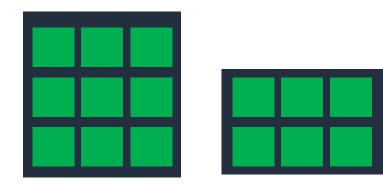




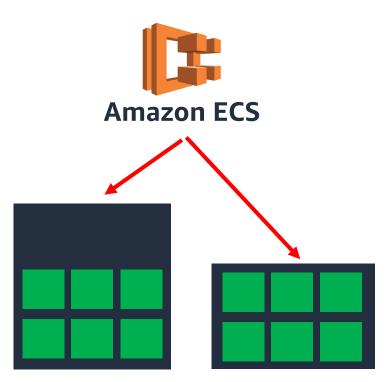


Bin Packing



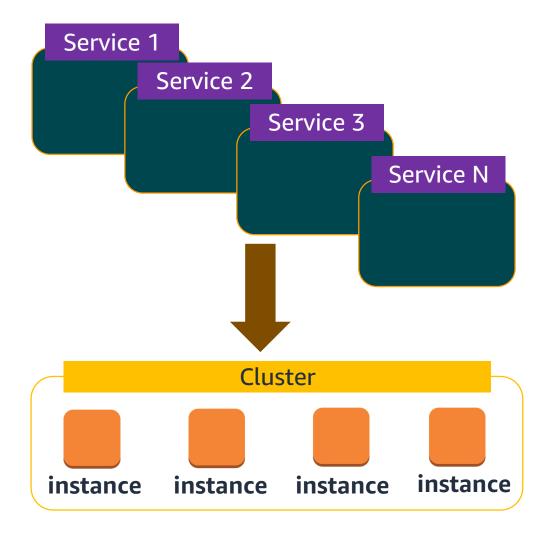


**Balance Spread** 













# Amazon Elastic Container Service (ECS) & Amazon Elastic Container Registry (ECR)

### Demo



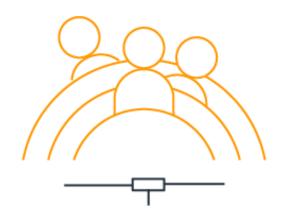


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