

Wifi / Password

Wifi name:
TDPK-WIFI

Username:

AWSOn-boardingworkshop1
AWSOn-boardingworkshop2
AWSOn-boardingworkshop3
AWSOn-boardingworkshop4
AWSOn-boardingworkshop5

Password
Welcome@2022



<https://github.com/TIDC-PS-Inter/AWS-Workshop>

Part 1



AWS Workshop Series

Day 3: Container for Beginner

Taking Enterprise Beyond the Cloud by TrueIDC

Mr. Niran Sohinkong

Professional Service Manager

Presented by

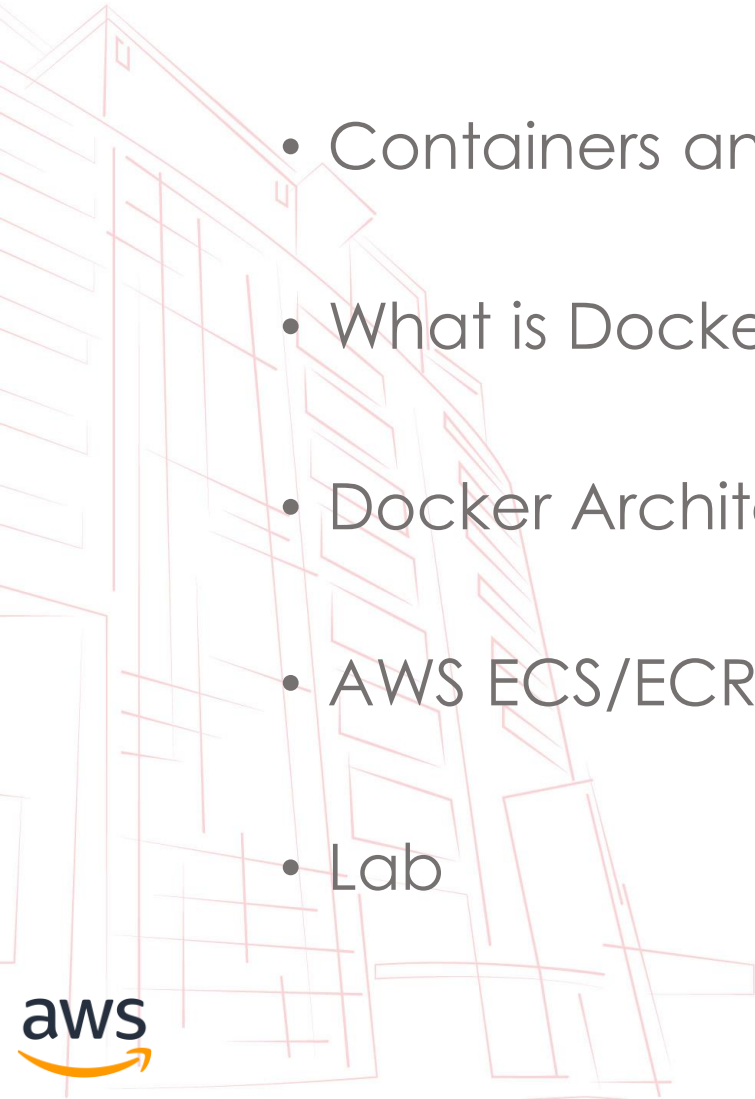
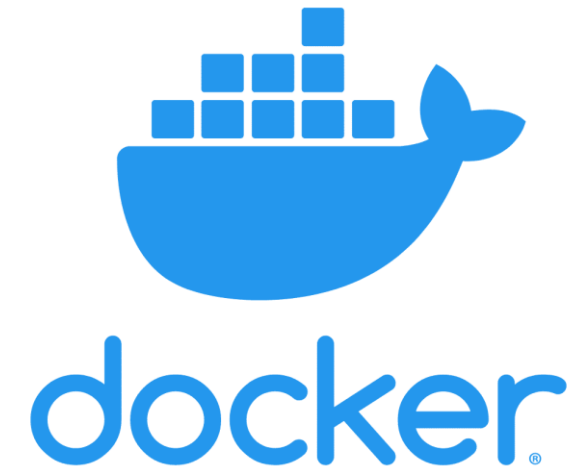


- Niran Sohinkong (Nueng)
- Professional Service Manager, TrueIDC
- AWS DevOps
- AWS SysOps / Architect
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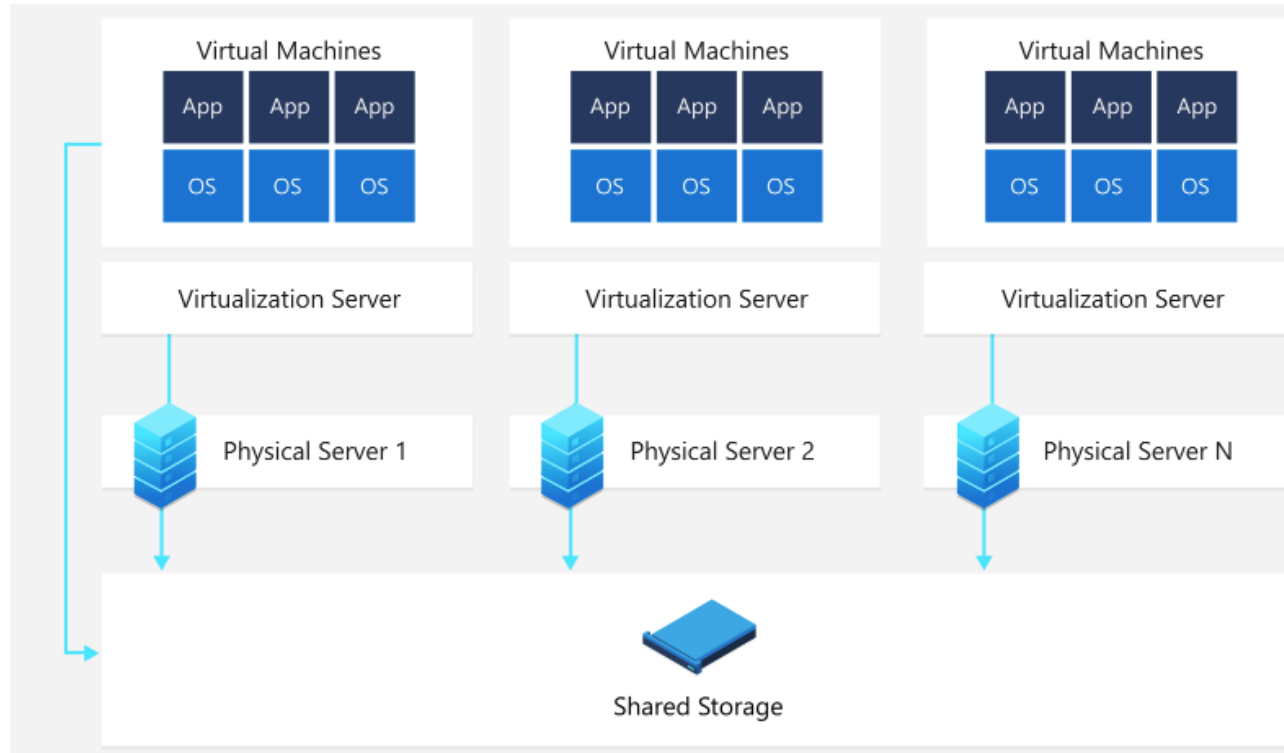
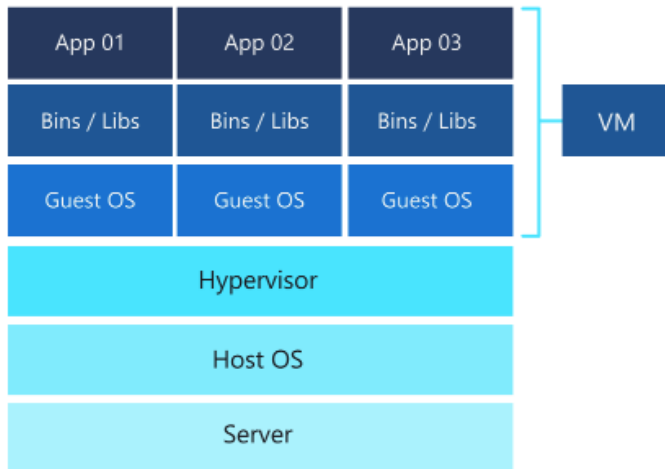


Agenda

- What is a Container?
- Containers and Virtual Machines
- What is Docker?
- Docker Architecture
- AWS ECS/ECR Overview
- Lab



Virtual Machines



A virtual machine, commonly shortened to just VM, is no different than any other physical computer like a laptop or server. It has a CPU, memory, disks to store your files, and can connect to the internet if needed. While the parts that make up your computer (called hardware) are physical and tangible, VMs are often thought of as virtual computers or software-defined computers within physical servers, existing only as code.

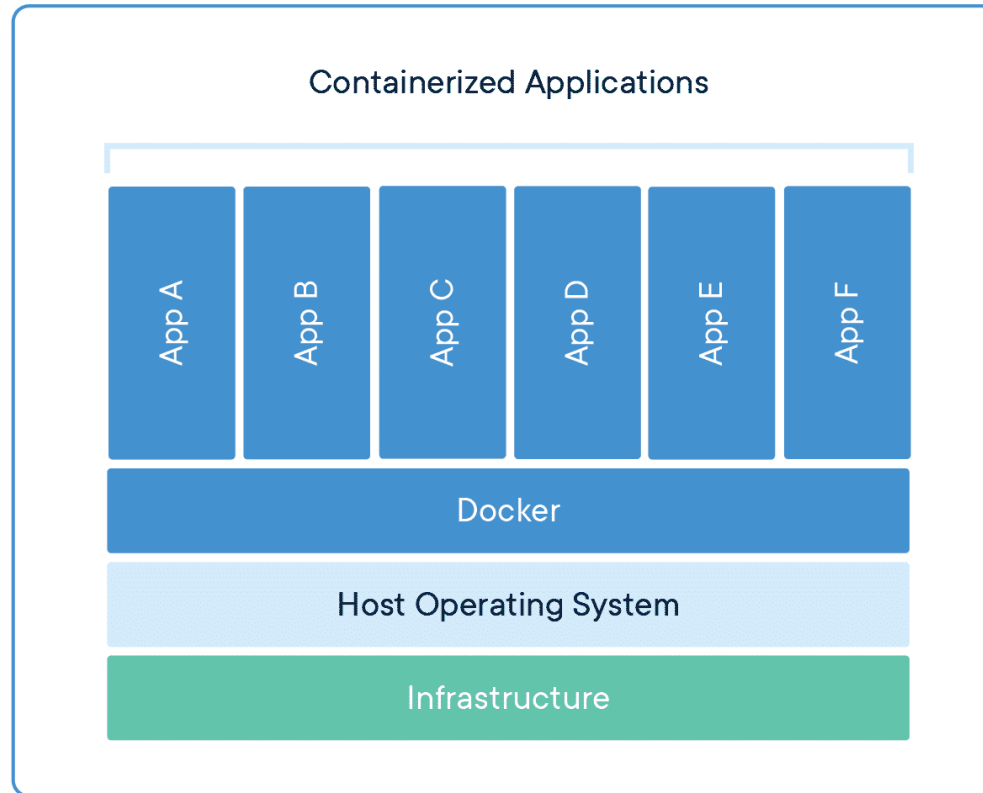
What is a Container?



A container is a standard unit of software that packages up code and all its dependencies, so the application runs quickly and reliably from one computing environment to another.

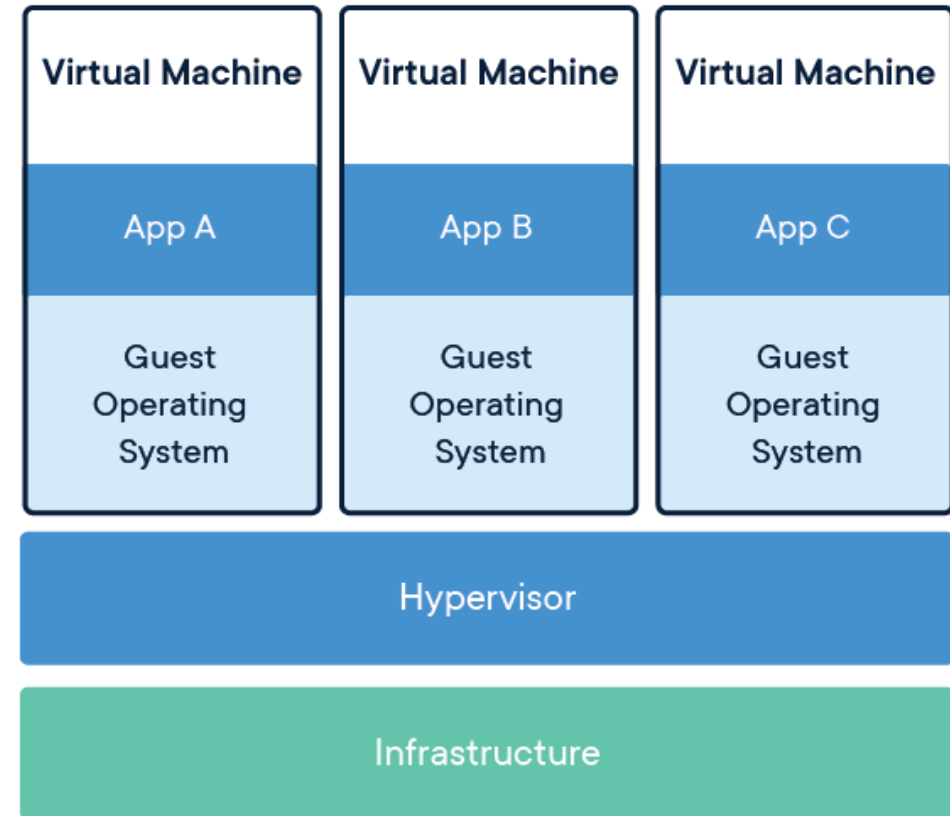
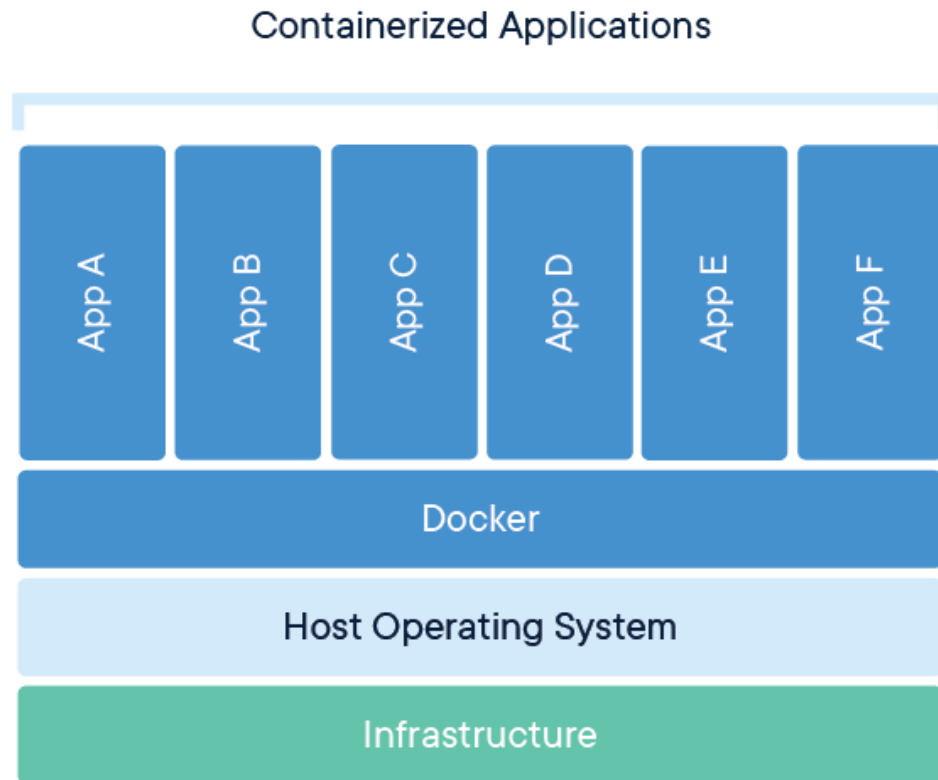
Credit by: <https://www.docker.com/resources/what-container/>
<https://www.ionos.de/digitalguide/server/knowhow/docker-tools-das-oekosystem-der-container-plattform/>

What is a Container?



A container is a standard unit of software that packages up code and all its dependencies, so the application runs quickly and reliably from one computing environment to another.

Containers and Virtual Machines



Containers vs Virtual Machines

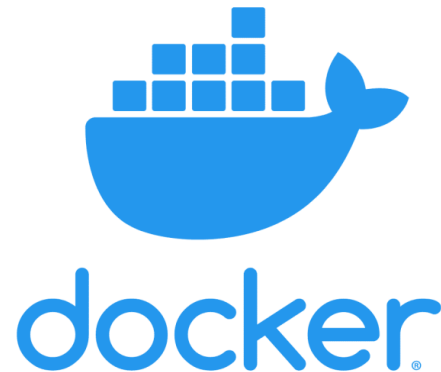
| Comparison | Containers | Virtual Machines |
|--------------------|---|---|
| Boot Time | ใช้เวลาไม่กี่วินาทีในการ Boot | ใช้เวลาเป็นนาทีในการ Boot |
| Execution | จัดการผ่าน Container Engine | จัดการผ่าน Hypervisor |
| Memory | ไม่เปลือง Memory เนื่องจากไม่ต้องใช้ในการสร้างระบบ Virtual | ใช้ Memory ทุกครั้งเนื่องจาก OS จะต้อง Start ก่อนที่จะใช้งาน Service |
| Isolation | ระบบไม่ได้แยกการทำงานออกจากกันชัดเจน อาจเกิดความยุ่งยากได้ง่าย | ระบบมีการแยกการทำงานออกจากกัน จัดการปัญหาได้ง่ายกว่า |
| Ease of Deployment | Deploy Container ทำได้ง่ายเนื่องจาก Container Image สามารถติดตั้งได้ในหลาย ๆ OS | Deploy VM มีขั้นตอนที่ต้องเตรียมการมากกว่าเพราะต้องแยก Instance ออกจากกัน |

What is Docker?

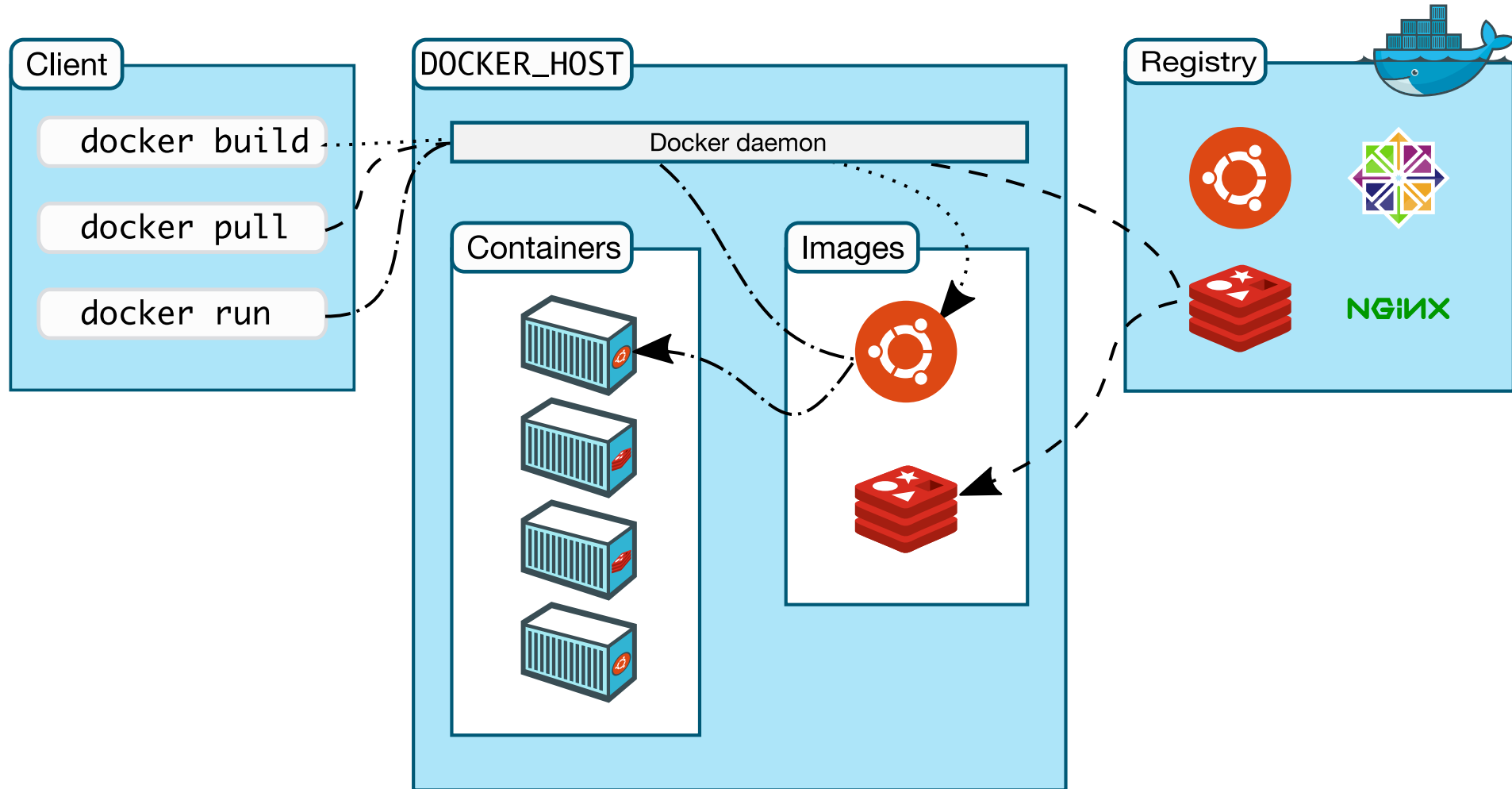
Docker provides the ability to package and run an application in a loosely isolated environment called a container. The isolation and security allows you to run many containers simultaneously on a given host.

Containers are lightweight and contain everything needed to run the application, so you do not need to rely on what is currently installed on the host.

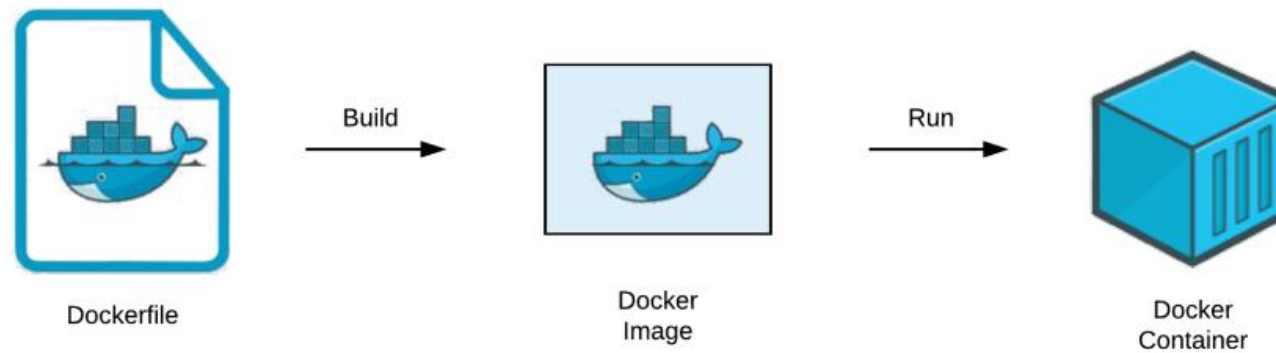
Docker provides tooling and a platform to manage the lifecycle of your containers



Docker architecture



Where the Docker Image come from?



- **Dockerfile** – is a text document that contains all the commands you would normally execute manually in order to build a Docker image. Docker can build images automatically by reading the instructions from a Dockerfile.
- **Docker Images** – are the basis of containers. An Image is an ordered collection of root filesystem changes and the corresponding execution parameters for use within a container runtime. An image typically contains a union of layered filesystems stacked on top of each other. An image does not have state and it never changes.
- **Docker Container**– is a runtime instance of a docker image.

Dockerfile

FROM node:16-alpine

---> using node with alpine image

WORKDIR /usr/src/app

---> Create app directory

COPY package*.json ./

---> Copy package to app directory

RUN npm install

COPY . .

---> Bundle app source

EXPOSE 3000

---> Listen port 3000

CMD ["node", "index.js"]

---> execute index.js

What are the benefits of Docker?

โดยสรุป **Docker Container** เกิดมาเพื่อช่วยในการทำงานเฉพาะส่วนของ **Application Level** ไม่ได้เอามาทั้ง **OS windows, driver** ต่างๆ ---> ซึ่งจะเลือกมาเฉพาะที่ใช้งานจริงๆ

1. ทำให้ start, stop, auto scaling ได้เร็วกว่า VM
2. Utilize CPU และ Mem น้อยกว่า VM
3. ไม่สิ้นเปลืองพื้นที่ในการจัดเก็บ
4. สามารถแยกออกเป็น แต่ละ env ได้ง่าย เช่น Dev, QA, UAT, SIT, NonProd, Prod ได้ง่าย สะดวก และรวดเร็ว
5. สามารถแยกแอปพลิเคชันยุคเก่าที่เปิ่นก้อนใหญ่ๆ แบบ Monolith มาเป็น Microservice ที่มีขนาดเล็กลง สามารถทำงานแยกกันได้อย่างอิสระ และ scaling service ได้ง่ายขึ้น

Linux Command

#pwd (present working directory)

#cd (change directory)

#mkdir (create directory)

#rmdir (remove directory)

#touch (create file)

#ls

#which

#uname -a

#cat

#cat /etc/os-release

#netstat -an | grep ":80"

VI editor command

:q (quit)

:wq (save & quit)

More command from: <https://www.hostinger.com/tutorials/linux-commands>

Docker Command

- #docker build
- #docker images
- #docker run
- #docker ps
- #docker pull
- #docker push
- #docker stop
- #docker rmi

More details from: <https://docs.docker.com/engine/reference/commandline/docker/>

Docker Command - Example

Install Docker

```
[root@PSWDDV2 docker]# yum install docker
Last metadata expiration check: 2:45:03 ago on Wed 20 Jul 2022 08:01:02 AM +07.
Dependencies resolved.
=====
Package                                Architecture Version                                Repository                               Size
=====
Installing:
podman-docker                          noarch    3.3.1-9.module_el8.5.0+988+b1f0b741    appstream                                56 k
Installing dependencies:
common                                x86_64    2:2.0.29-1.module_el8.5.0+890+6b136101  appstream                                52 k
container-selinux                     noarch    2:2.167.0-1.module_el8.5.0+911+f19012f9  appstream                                54 k
containernetworking-plugins           x86_64    1.0.0-1.module_el8.5.0+890+6b136101    appstream                                19 M
containers-common                     noarch    2:1-2.module_el8.5.0+890+6b136101    appstream                                79 k
criu                                   x86_64    3.15-3.module_el8.5.0+890+6b136101    appstream                                518 k
fuse-common                           x86_64    3.2.1-12.el8                             baseos                                    21 k
fuse-overlayfs                        x86_64    1.7.1-1.module_el8.5.0+890+6b136101    appstream                                73 k
fuse3                                 x86_64    3.2.1-12.el8                             baseos                                    50 k
fuse3-libs                            x86_64    3.2.1-12.el8                             baseos                                    94 k
iptables                              x86_64    1.8.4-20.el8                             baseos                                    585 k
libnet                                 x86_64    1.1.6-15.el8                             appstream                                67 k
libnetfilter_conntrack                x86_64    1.0.6-5.el8                             baseos                                    65 k
libnftnl                               x86_64    1.0.1-13.el8                             baseos                                    33 k
libnftnl                               x86_64    1.1.5-4.el8                             baseos                                    83 k
libslirp                              x86_64    4.4.0-1.module_el8.5.0+890+6b136101    appstream                                70 k
nftables                              x86_64    1:0.9.3-21.el8                           baseos                                    321 k
podman                                 x86_64    3.3.1-9.module_el8.5.0+988+b1f0b741    appstream                                12 M
podman-catatonit                      x86_64    3.3.1-9.module_el8.5.0+988+b1f0b741    appstream                                340 k
protobuf-c                            x86_64    1.3.0-6.el8                             appstream                                37 k
runc                                   x86_64    1.0.2-1.module_el8.5.0+911+f19012f9    appstream                                3.1 M
slirp4netns                           x86_64    1.1.8-1.module_el8.5.0+890+6b136101    appstream                                51 k
Enabling module streams:
container-tools                        rhel8
Transaction Summary
=====
Install 22 Packages

Total download size: 37 M
Installed size: 127 M
Is this ok [y/N]:
```

Docker Command - Example

Docker build image

```
[root@PSWDDV2 nginx]# docker build -t web:v1 .
Emulate Docker CLI using podman. Create /etc/containers/nodocker to quiet msg.
STEP 1/4: FROM httpd:2.4
✓ docker.io/library/httpd:2.4
Trying to pull docker.io/library/httpd:2.4...
Getting image source signatures
Copying blob 461246efe0a7 skipped: already exists
Copying blob d6bc17b4451a done
Copying blob 97f4b88189d8 done
Copying blob c332ae8365a7 done
Copying blob 72dcd3e40e39 done
Copying config 444f7df01c done
Writing manifest to image destination
Storing signatures
STEP 2/4: WORKDIR /usr/local/apache2/htdocs/
--> 4ed69169fd4
STEP 3/4: COPY . .
--> 38c0bbd3f89
STEP 4/4: EXPOSE 80
COMMIT web:v1
--> 6dacb91dad3
Successfully tagged localhost/web:v1
6dacb91dad355a3751147ce5e7de89ae7a438d78e2ff01e9c5652341158508fc
```

Docker images

```
[root@PSWDDV2 nginx]# docker images
Emulate Docker CLI using podman. Create /etc/containers/nodocker to quiet msg.
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
localhost/web        v1           6dacb91dad35  10 seconds ago 149 MB
localhost/api-app    v1           9e76e1a46c9f  About an hour ago 122 MB
docker.io/library/nginx latest       670dcc86b69d  14 hours ago  146 MB
docker.io/library/node 16-alpine   b0cbdedc1b9d  33 hours ago  115 MB
docker.io/library/httpd 2.4         444f7df01ce9  8 days ago    149 MB
```


Docker Command - Example

Docker run container

```
[root@PSWDDV2 nginx]# docker run -d -p 80:80 web:v1
Emulate Docker CLI using podman. Create /etc/containers/nodocker to quiet msg.
5ba3283cfa8d66c3ae8cfedcad76201017405be33a0b1ee2a47ba5661c138c7c
```

Docker ps

```
[root@PSWDDV2 nginx]# docker ps
Emulate Docker CLI using podman. Create /etc/containers/nodocker to quiet msg.
```

| CONTAINER ID | IMAGE | COMMAND | CREATED | STATUS | PORTS | NAMES |
|--------------|----------------------|------------------|-------------------|----------------------|------------------------|------------------|
| cb2b38e1a27b | localhost/api-app:v1 | node index.js | About an hour ago | Up About an hour ago | 0.0.0.0:3000->3000/tcp | sad_edison |
| 5ba3283cfa8d | localhost/web:v1 | httpd-foreground | 30 seconds ago | Up 30 seconds ago | 0.0.0.0:80->80/tcp | ecstatic_swirles |

Introduction to Amazon ECS and AWS Fargate

Containers Immersion Day:

AWS container services landscape

Management

Deployment, Scheduling, Scaling
& Management of containerized
applications



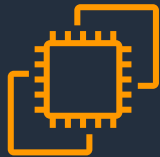
Amazon Elastic
Container Service



Amazon Elastic
Kubernetes Service

Hosting

Where the containers run



Amazon EC2



AWS Fargate



ECS Anywhere
EKS Anywhere

Image Registry

Container Image Repository



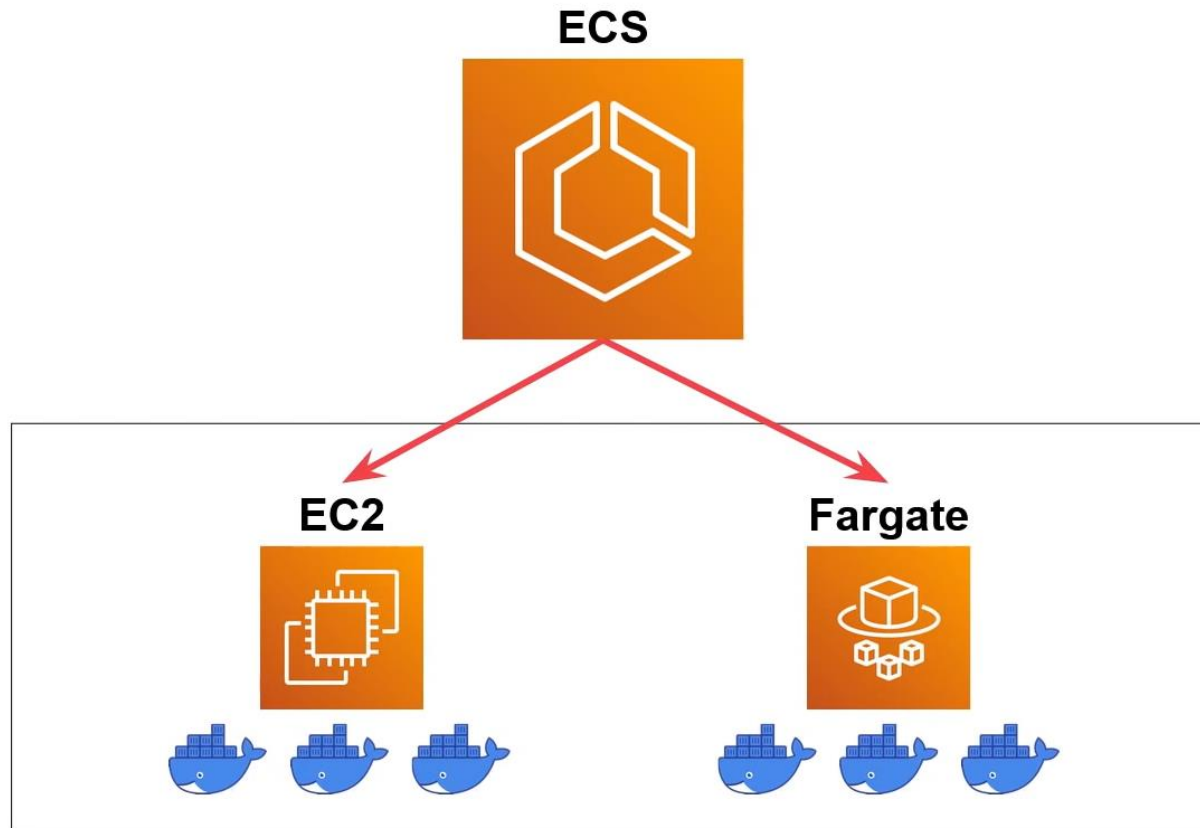
Amazon Elastic
Container Registry



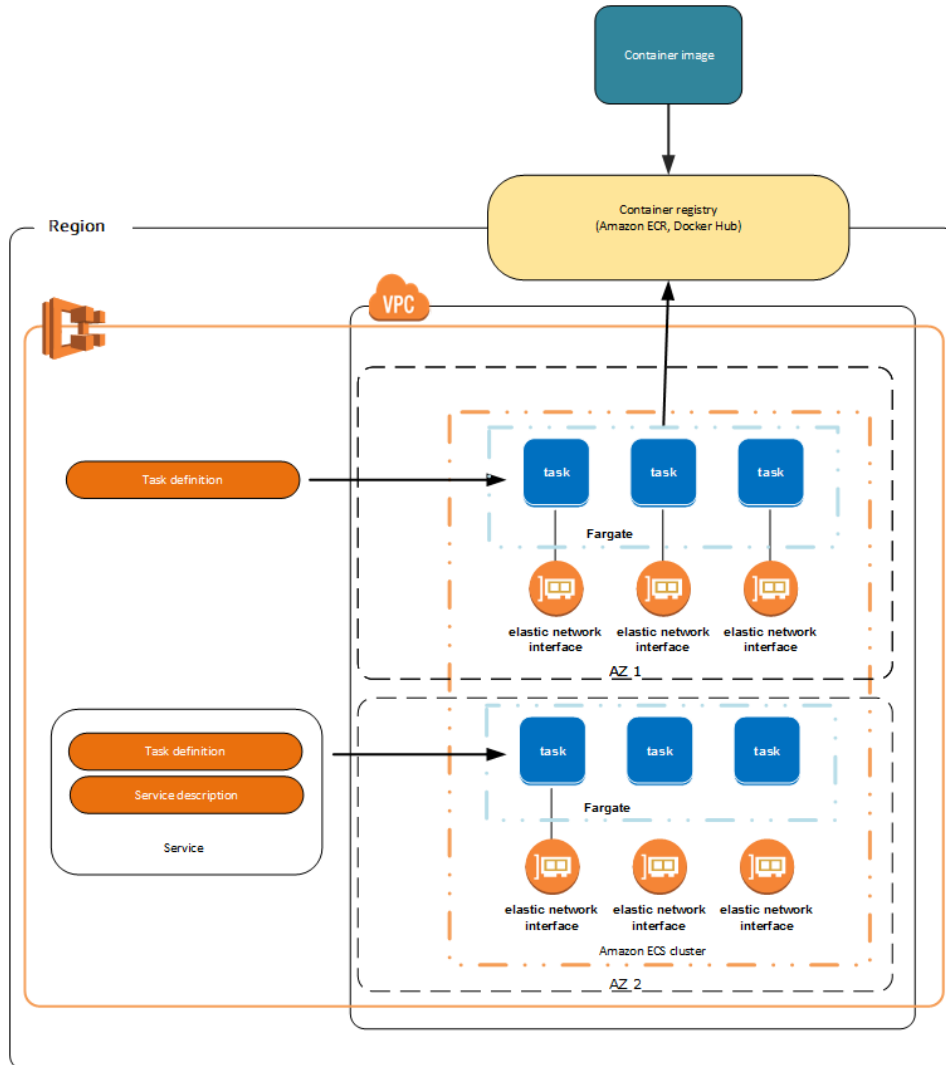
Amazon Elastic Container Service

AWS ECS

Amazon Elastic Container Service (Amazon ECS) is a highly scalable and fast container management service. You can use it to run, stop, and manage containers on a cluster.



AWS ECS Overview



Tasks

A *task* is the instantiation of a task definition within a cluster.

Task definitions

A *task definition* is a text file that describes one or more containers that form your application. The task definition functions as a blueprint for your application.

Services

To run, maintain and manage your desired number of tasks based on your task definition.

Container image

Images are typically built from a Dockerfile. A Dockerfile is a plaintext file that specifies all of the components that are included in the container.

Introduction to Amazon Elastic Container Registry

Containers Immersion Day: Module 2

AWS container services landscape

Management

Deployment, Scheduling, Scaling
& Management of containerized
applications



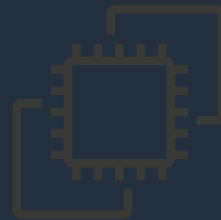
Amazon Elastic
Container Service



Amazon Elastic
Container Service for
Kubernetes

Hosting

Where the containers run



Amazon EC2



AWS Fargate

Image Registry

Container Image Repository



Amazon Elastic
Container Registry

The benefits of using Amazon ECR



Fully Managed



Secure



Highly Available



Simplified Workflow

AWS ECR

Services

[Alt+S]

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Amazon Elastic Container Registry

Private registry

Public registry

Repositories

Summary

Images

Permissions

Lifecycle Policy

Tags

Getting started

Documentation

Public gallery

Amazon ECR > Repositories > awshisnonprodrepostg

awshisnonprodrepostg

View push commands

Edit

Images (74)

Delete

Scan

< 1 >

| <input type="checkbox"/> | Image tag | Artifact type | Pushed at ▾ | Size (MB) ▾ | Image URI | Digest | Scan status | Vulnerabilities |
|--------------------------|----------------------|---------------|----------------------------------|-------------|-----------|---|-------------|-----------------|
| <input type="checkbox"/> | api-staging-V13.6 | Image | June 09, 2022, 12:09:26 (UTC+07) | 119.49 | Copy URI | sha256:062a116cafe1eb53579259baf91913... | - | - |
| <input type="checkbox"/> | web-staging-02062022 | Image | June 02, 2022, 17:47:42 (UTC+07) | 76.77 | Copy URI | sha256:cbabf60f20873b4d44a6247884ef7a... | - | - |
| <input type="checkbox"/> | api-staging-02062022 | Image | June 02, 2022, 17:46:11 (UTC+07) | 119.49 | Copy URI | sha256:a829aec8afdd8b8a1a338869e5abe6... | - | - |
| <input type="checkbox"/> | api-staging-29052022 | Image | May 29, 2022, 11:34:00 (UTC+07) | 119.16 | Copy URI | sha256:4bc375fba3553884eda73b96de46a... | - | - |
| <input type="checkbox"/> | web-staging-29052022 | Image | May 29, 2022, 11:32:14 (UTC+07) | 76.71 | Copy URI | sha256:2678b9122c9ed7fea936969d38f278... | - | - |
| <input type="checkbox"/> | api-staging-28052022 | Image | May 28, 2022, 19:08:42 (UTC+07) | 119.45 | Copy URI | sha256:490b452fde95ea8890616f8e18aada... | - | - |
| <input type="checkbox"/> | api-staging-27052022 | Image | May 27, 2022, 19:55:34 (UTC+07) | 119.45 | Copy URI | sha256:05ebe8acc65f34e417cf6bdf220ff58... | - | - |



AWS Fargate



**Your containerized
applications**

Managed by AWS

No EC2 Instances to provision, scale or manage

Elastic

Scale up & down seamlessly. Pay only for what you use

Integrated

With the AWS ecosystem: VPC Networking, Elastic Load Balancing, IAM Permissions, CloudWatch and more

AWS Fargate



Amazon Elastic Kubernetes
Service



AWS Fargate



Amazon Elastic Container
Service

- Fargate still belongs to either ECS or EKS
 - ECS/EKS concepts still apply
 - No EC2 (AMI) to manage
- Max 4 vCPU, 30 GB RAM
- No GPU
- No windows container
 - Convert to .Net core to run in Linux
- No daemon set, no privileged mode
- Cost based on CPU, memory, duration
- Same application container

AWS EKS vs ECS



Amazon Elastic Kubernetes
Service



Amazon Elastic Container
Service

- Some interchangeable concepts
 - Pod ~ Task
 - Replicaset + Service ~ Service
 - HPA ~ Task auto scaler
 - Cluster autoscaler ~ Capacity provider scaling
- Security
 - Static, dynamic scanning, AMI hardening, OPA concepts
- Both works with EFS
- Same application container

Task Definition

aws

Services

Search for services, features, blogs, docs, and more

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New ECS Experience
Tell us what you think

Amazon ECS
Clusters
Task Definitions
Account Settings

Amazon EKS
Clusters

Amazon ECR
Repositories

AWS Marketplace
Discover software

Subscriptions

Task Definitions

Task definitions specify the container information for your application, such as how many containers are part of your task, what resources they will use, how they are linked together, and which host ports they will use. [Learn more](#)

[Create new Task Definition](#)[Create new revision](#)[Actions](#)

Last updated on June 9, 2022 5:19:12 PM (0m ago)

Status: **ACTIVE** INACTIVE

Filter in this page

< 1-37 > Page size 50

| <input type="checkbox"/> | Task Definition | Latest revision status |
|--------------------------|---------------------------------------|------------------------|
| <input type="checkbox"/> | api-gemo-staging | ACTIVE |
| <input type="checkbox"/> | api-master | ACTIVE |
| <input type="checkbox"/> | api-master-staging | ACTIVE |
| <input type="checkbox"/> | api-staging | ACTIVE |
| <input type="checkbox"/> | api-test | ACTIVE |
| <input type="checkbox"/> | apimaster | ACTIVE |
| <input type="checkbox"/> | apistaging | ACTIVE |
| <input type="checkbox"/> | apitest | ACTIVE |
| <input type="checkbox"/> | jasper-gemo-staging | ACTIVE |
| <input type="checkbox"/> | jasper-master | ACTIVE |
| <input type="checkbox"/> | jasper-master-staging | ACTIVE |
| <input type="checkbox"/> | jasper-staging | ACTIVE |
| <input type="checkbox"/> | jasper-test | ACTIVE |

Task Definition

aws

Services

Search for services, features, blogs, docs, and more

[Alt+S]

🔔

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New ECS Experience
Tell us what you think

Amazon ECS
Clusters

Task Definitions

Account Settings

Amazon EKS
Clusters

Amazon ECR
Repositories

AWS Marketplace
Discover software

Subscriptions

Task Definitions > api-staging > status > ACTIVE

Task definition name : api-staging

Select a revision for more details

Create new revision

Actions

Last updated on June 9, 2022 5:19:58 PM (1m ago)

Status: **Active** Inactive 1 selected

Filter in this page

< 1-33 > Page size 50

| <input type="checkbox"/> | Task Definition Name : Revision | Status |
|-------------------------------------|---------------------------------|--------|
| <input checked="" type="checkbox"/> | api-staging:38 | Active |
| <input type="checkbox"/> | api-staging:37 | Active |
| <input type="checkbox"/> | api-staging:36 | Active |
| <input type="checkbox"/> | api-staging:35 | Active |
| <input type="checkbox"/> | api-staging:34 | Active |
| <input type="checkbox"/> | api-staging:33 | Active |
| <input type="checkbox"/> | api-staging:32 | Active |
| <input type="checkbox"/> | api-staging:31 | Active |
| <input type="checkbox"/> | api-staging:30 | Active |
| <input type="checkbox"/> | api-staging:29 | Active |
| <input type="checkbox"/> | api-staging:28 | Active |

Task Definition

aws Services Search for services, features, blogs, docs, and more

Task memory maximum allocation for container memory reservation

0

Container definitions

Add container

| Container Name | Image |
|----------------|---|
| api-staging | 136363414653.dkr.ecr.ap-southeast-1.amazonaws.com/awshisnonprodrepostg:api-staging-02062022 |

Constraint

Task placement constraints allow you to filter the container instances to place the task.

Type

+ Add constraint

Service integration

AWS App Mesh is a service mesh based on the Envoy proxy that integrates with your applications. To enable App Mesh integration, complete the following steps:

Edit container

Standard

Container name* api-staging ⓘ

Image* 136363414653.dkr.ecr.ap-southeast-1.amazonaws.com/awshisnonprodrepostg:api-staging-02062022 ⓘ

Private repository authentication* ☐ ⓘ

Memory Limits (MiB)*


| | | |
|------------|-----|-----|
| Hard limit | 800 | ⓧ ⓘ |
| Soft limit | 256 | ⓧ ⓘ |

Define hard and/or soft memory limits in MiB for your container. Hard and soft limits correspond to the 'memory' and 'memoryReservation' parameters, respectively, in task definitions.
ECS recommends 300-500 MiB as a starting point for web applications.



Port mappings ⓘ

| Host port | Container port | Protocol |
|-----------|----------------|----------|
| 8061 | 80 | tcp |

Cluster -> Services

 Services

[Alt+S]

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New ECS Experience
Tell us what you think

Amazon ECS

- Clusters
- Task Definitions
- Account Settings

Amazon EKS

- Clusters

Amazon ECR

- Repositories

AWS Marketplace

- Discover software
- Subscriptions

Clusters > AWSHISNONPRDECS1003

Cluster : AWSHISNONPRDECS1003

Get a detailed view of the resources on your cluster.

Cluster ARN am:aws:ecs:ap-southeast-1:136363414653:cluster/AWSHISNONPRDECS1003

Status ACTIVE

Registered container instances 2

Pending tasks count 0 Fargate, 0 EC2, 0 External

Running tasks count 0 Fargate, 14 EC2, 0 External

Active service count 0 Fargate, 26 EC2, 0 External

Draining service count 0 Fargate, 0 EC2, 0 External

Services

Tasks

ECS Instances

Metrics

Scheduled Tasks

Tags

Capacity Providers

Create Update Delete Actions

Last updated on June 9, 2022 5:24:52 PM (1m ago)

Filter in this page


Launch type ALL

Service type ALL



< 1-26 >

| <input type="checkbox"/> | Service Name | Status | Service type | Task Definition | Desired tasks | Running tasks | Launch type | Platform version |
|--------------------------|------------------------|--------|--------------|--------------------------|---------------|---------------|-------------|------------------|
| <input type="checkbox"/> | medcer-gemo-staging | ACTIVE | REPLICA | medcer-gemo-staging:1 | 1 | 1 | EC2 | -- |
| <input type="checkbox"/> | patientimage | ACTIVE | REPLICA | patientimage01:7 | 1 | 1 | EC2 | -- |
| <input type="checkbox"/> | web-gemo-staging | ACTIVE | REPLICA | web-gemo-staging:2 | 1 | 1 | EC2 | -- |
| <input type="checkbox"/> | webmaster | ACTIVE | REPLICA | web-master:2 | 0 | 0 | EC2 | -- |
| <input type="checkbox"/> | apitest | ACTIVE | REPLICA | api-test:1 | 0 | 0 | EC2 | -- |
| <input type="checkbox"/> | signalr-master-staging | ACTIVE | REPLICA | signalr-master-staging:1 | 0 | 0 | EC2 | -- |
| <input type="checkbox"/> | signalrtestUpdate | ACTIVE | REPLICA | signalr-test:1 | 0 | 0 | EC2 | -- |
| <input type="checkbox"/> | jasper-gemo-staging | ACTIVE | REPLICA | jasper-gemo-staging:2 | 1 | 1 | EC2 | -- |

Cluster -> Services

 Services

[Alt+S]

 Singapore AdministratorAccess/warin.tra@ascendcorp.com

New ECS Experience
Tell us what you think

Amazon ECS

- Clusters
- Task Definitions
- Account Settings

Amazon EKS

- Clusters

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Clusters > AWSHISNONPRDECS1003 > Service: apistaging

Service : apistaging

Update Delete

Cluster [AWSHISNONPRDECS1003](#)

Status ACTIVE

Task definition [api-staging:38](#)

Service type REPLICA

Launch type EC2

Service role ecsServiceRole

Created By
arn:aws:iam::136363414653:role/aws-reserved/sso.amazonaws.com/ap-southeast-1/AWSReservedSSO_AdministratorAccess_8d8a65e91274b7b6

Desired count 2

Pending count 0

Running count 2

Details Tasks Events Auto Scaling Deployments Metrics Tags Logs

Load Balancing

| Target Group Name | Container Name | Container Port |
|----------------------------------|----------------|----------------|
| staging-api-8061 | api-staging | 80 |

Network Access

Health check grace period 0

Cluster -> Services

Update Service

Step 1: Configure service

Step 2: Configure network

Step 3: Set Auto Scaling (optional)

Step 4: Review

Configure service

A service lets you specify how many copies of your task definition to run and maintain in a cluster. You can optionally use an Elastic Load Balancing load balancer to distribute incoming traffic to containers in your service. Amazon ECS maintains that number of tasks and coordinates task scheduling with the load balancer. You can also optionally use Service Auto Scaling to adjust the number of tasks in your service.

Task Definition Family
api-staging

Revision
38 (latest)

Launch type EC2 i
[Switch to capacity provider strategy](#)

Force new deployment ☐ i

Cluster AWSHISNONPRDECS1003 i

Service name apistaging i

Service type* REPLICAS i

Lab: AWS Container Immersion Day



Thank you

