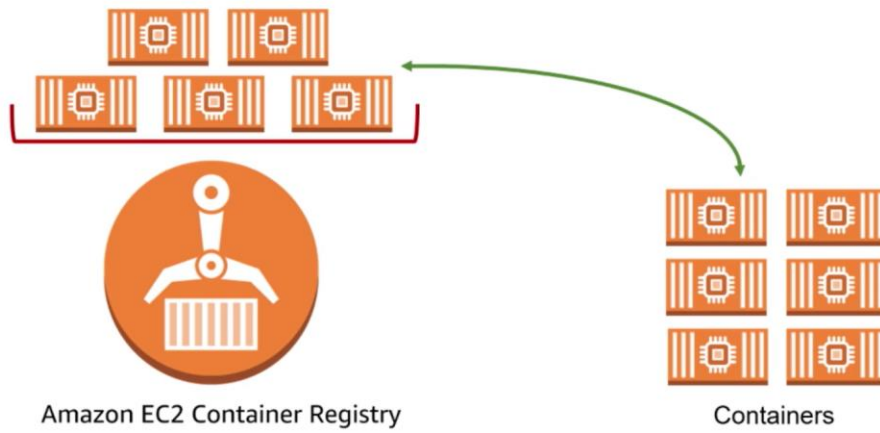


Introduction to Amazon ECR

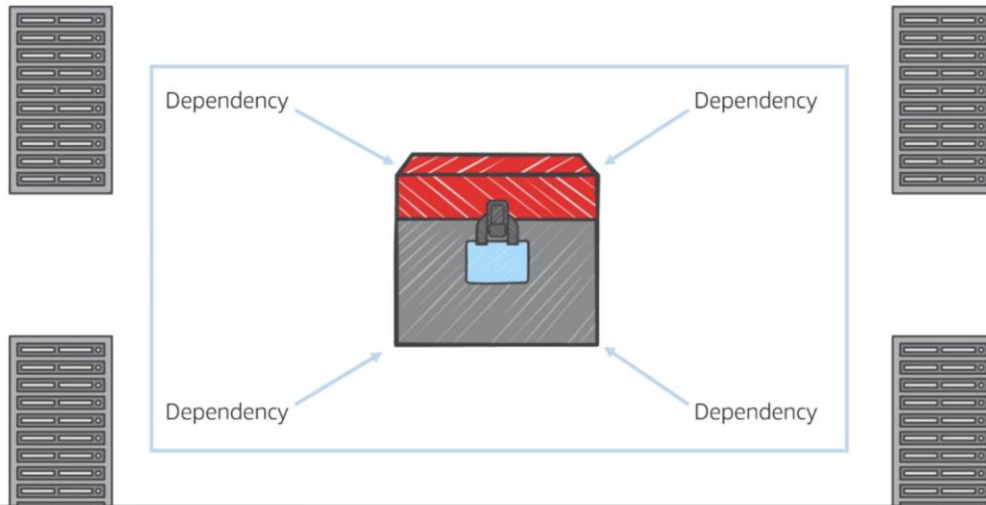
aws training and certification



0:34 / 7:32



Introduction to Containers

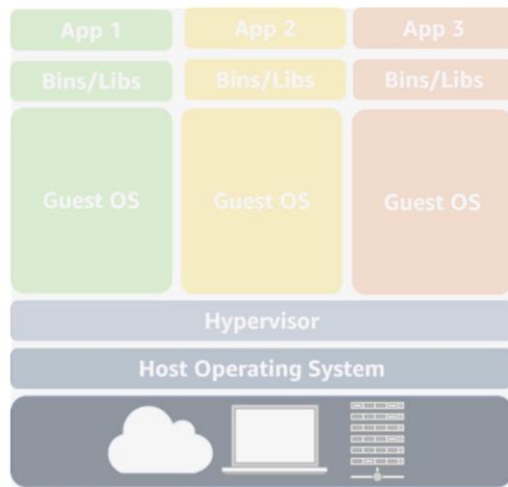


1:26 / 7:32

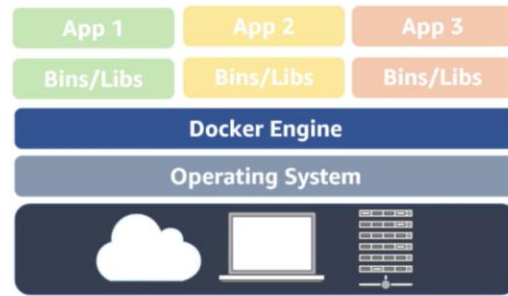
Containers to the Rescue



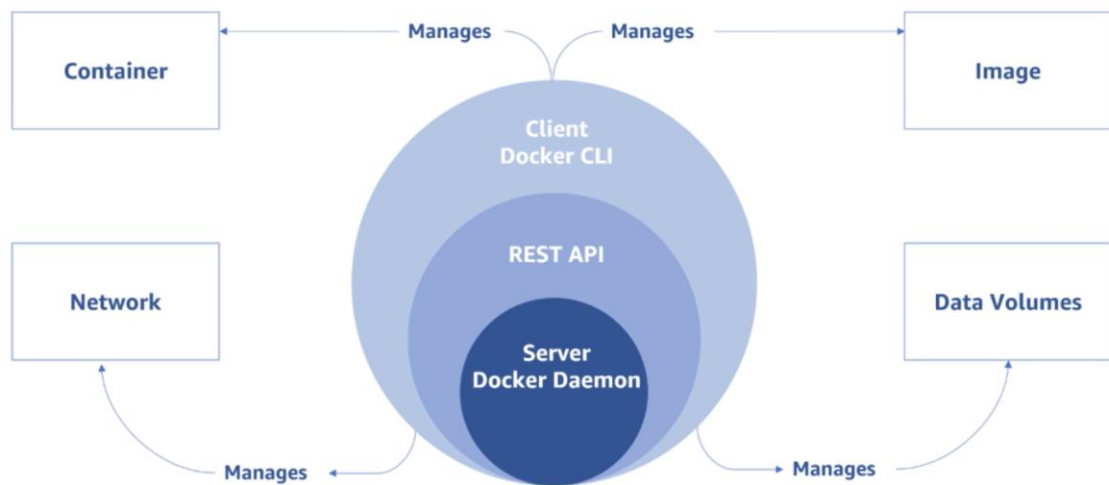
Containers Versus Virtual Machines



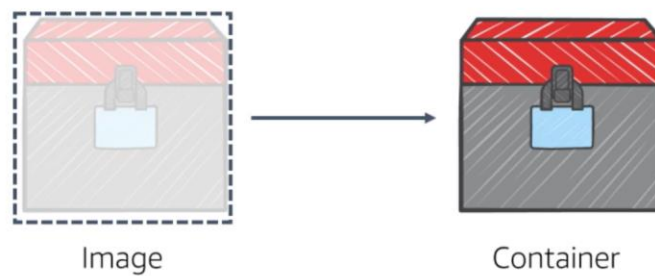
Container



Docker Daemon



Docker Images



Questions to Consider



How do you:

...manage multiple
container images?



...make sure the image
repository is highly available?



...manage access control?

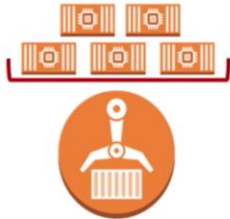


Overview of Amazon ECR



How do you:

...manage multiple container images?



Amazon ECR

...make sure the image repository is highly available?



Amazon S3

...manage access control?



IAM

Working with the Docker CLI



Container Image



```
docker pull <REGISTRY_ENDPOINT>/AWSomeApp:prod  
docker push <REGISTRY_ENDPOINT>/AWSomeApp:prod
```



Amazon ECR

aws

Services

Resource Groups

Get started with Amazon EC2 Container Registry

Step 1: Configure repository

Step 2: Build, tag, and push Docker image

Configure repository

The wizard guides you through creating a repository in Amazon ECR. [Learn more](#)

Repository name*

Namespaces are optional, and they can be included in the repository name with a slash (for example, namespace/repository).

Repository URI

123456789012.dkr.ecr.us-east-1.amazonaws.com

Permissions

As the owner, you have access to this repository by default. After completing this wizard, you can grant others permission to access this repository in the console.

*Required

Cancel

Next step

Feedback

English (US)

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aws

Services

Resource Groups

Get started with Amazon EC2 Container Registry

Step 1: Configure repository

Step 2: Build, tag, and push Docker image

Build, tag, and push Docker image

Now that your repository exists, you can push a Docker image by following these steps:

Successfully created repository

[123456789012.dkr.ecr.us-east-1.amazonaws.com:443/repo-name](#)

To install the AWS CLI and Docker and for more information on the steps below, visit the [ECR documentation page](#).

1) Retrieve the `docker login` command that you can use to authenticate your Docker client to your registry:

Note:

If you receive an "Unknown options: --no-include-email" error, install the latest version of the AWS CLI. [Learn more](#)

```
aws ecr get-login --no-include-email --region us-west-1
```

2) Run the `docker login` command that was returned in the previous step.

Note:

If you are using Windows PowerShell, run the following command instead:

```
Invoke-Expression -Command (aws ecr get-login --no-include-email --region us-west-1)
```

3) Build your Docker image using the following command. For information on building a Docker file from scratch see the [instructions here](#). You can skip this step if your image is already built.

```
docker build -t demo-app .
```

4) After the build completes, tag your image so you can push the image to this repository:

```
docker tag demo-app:latest 123456789012.dkr.ecr.us-east-1.amazonaws.com:443/repo-name:latest
```

5) Run the following command to push this image to your newly created AWS repository:

```
docker push 123456789012.dkr.ecr.us-east-1.amazonaws.com:443/repo-name:latest
```

*Required

Done

Feedback

English (US)

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```
[ec2-user@ip-172-31-0-5 docker-demo]$ aws ecr get-login --no-include-email --region eu-west-1 | sh
Login Succeeded
[ec2-user@ip-172-31-0-5 docker-demo]$
```

```
[ec2-user@ip-172-31-0-5 docker-demo]$ aws ecr get-login --no-include-email --region eu-west-1 | sh
Login Succeeded
[ec2-user@ip-172-31-0-5 docker-demo]$ docker tag demo-app:latest https://172.31.0.5:443/repo/demo-app:latest
atest
```



```
[ec2-user@ip-172-31-0-5 docker-demo]$ aws ecr get-login --no-include-email --region eu-west-1 | sh
Login Succeeded
[ec2-user@ip-172-31-0-5 docker-demo]$ docker tag demo-app:latest 68913170f-4e0c-4d08-a1-dc0000000000/demo-app:late
st
[ec2-user@ip-172-31-0-5 docker-demo]$ docker push 68913170f-4e0c-4d08-a1-dc0000000000/demo-app:late
```

```
[ec2-user@ip-172-31-0-5 docker-demo]$ aws ecr get-login --no-include-email --region eu-west-1 | sh
login Succeeded
[ec2-user@ip-172-31-0-5 docker-demo]$ docker tag demo-app:latest 795510111111.dkr.ecr.eu-west-1.amazonaws.com/demo-app:latest
[ec2-user@ip-172-31-0-5 docker-demo]$ docker push 795510111111.dkr.ecr.eu-west-1.amazonaws.com/demo-app:latest
The push refers to a repository 795510111111.dkr.ecr.eu-west-1.amazonaws.com/demo-app
a7dab901beeb: Pushed
a179bfb4f2f6: Pushed
a1a53f8d99b5: Pushed
453fc2d51ell: Pushing [=====] 53.56 MB
cec7521cdf36: Pushing [=====] 50.87 MB/55.27 MB
```

Summary



- 📦 Use containers for self-contained software delivery.
- 📦 Docker images are blueprints of your containers.
- 📦 Amazon ECR stores, manages and deploys your Docker images.