



AWS Builder Academy

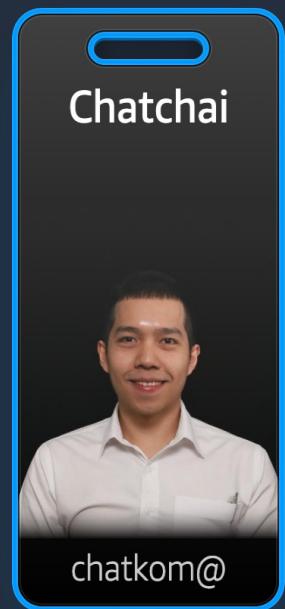
Containerize on AWS

April 27, 2023
At Lancaster Hotel, Bangkok

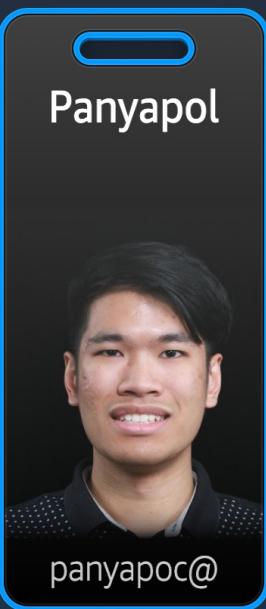


Wi-fi: **HOTEL...**
Password: **HOTEL...**

Meet our team!



Chatchai K. (Bas)
Solutions Architect Manager



Panyapol C. (Leo)
Solutions Architect



Patiphan P. (Boy)
Solutions Architect



Tanisorn J. (Kag)
Associate Solutions Architect

What you will learn/do today?

- Good **enough theory**, and **opportunities to hand-on** with AWS Container Services.
- Come **talk to us** if you have any plan on AWS. 😊

Agenda - Containerize on AWS

Time	Topic	Speaker(s)
09:00 – 09:15	Registration / AWS Builder Academy	Chatchai Komrangded
09:15 – 10:15	Introduction to Containers and Docker	Patiphan Pinkeaw
10:15 – 10:30	Break	
10:30 - 11:00	Lab: Containerizing the Mythical Mysfits monolith	Tanisorn Jansamret
11:00 – 12:00	Introduction to AWS Container Services	Panyapol Chuenwatanakul
12:00 – 13:00	Lunch	
13:00 – 14:30	Lab: AWS Container Service	
14:30 – 15:00	Introducing AWS Service Screener	Tanisorn Jansamret
16:00 – 16:15	recap: Containerize on AWS / Win the prize!	Patiphan Pinkeaw
16:15 – 16:30	AWS Learning Resources & Conclusion	



Introduction to containers and Docker

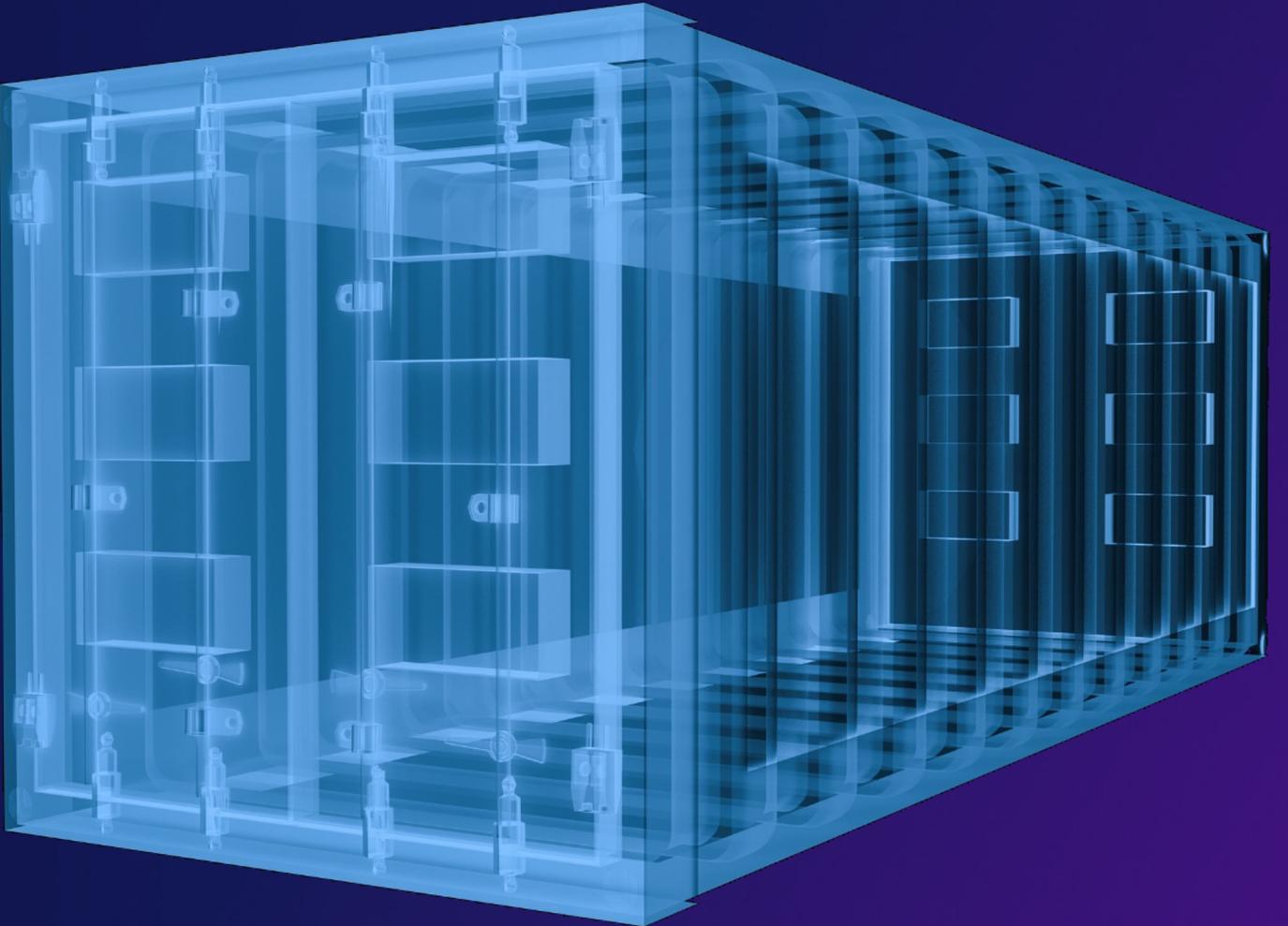
Patiphan Pinkeaw (Boy)

Solutions Architect
Amazon Web Services (Thailand)



First things first...

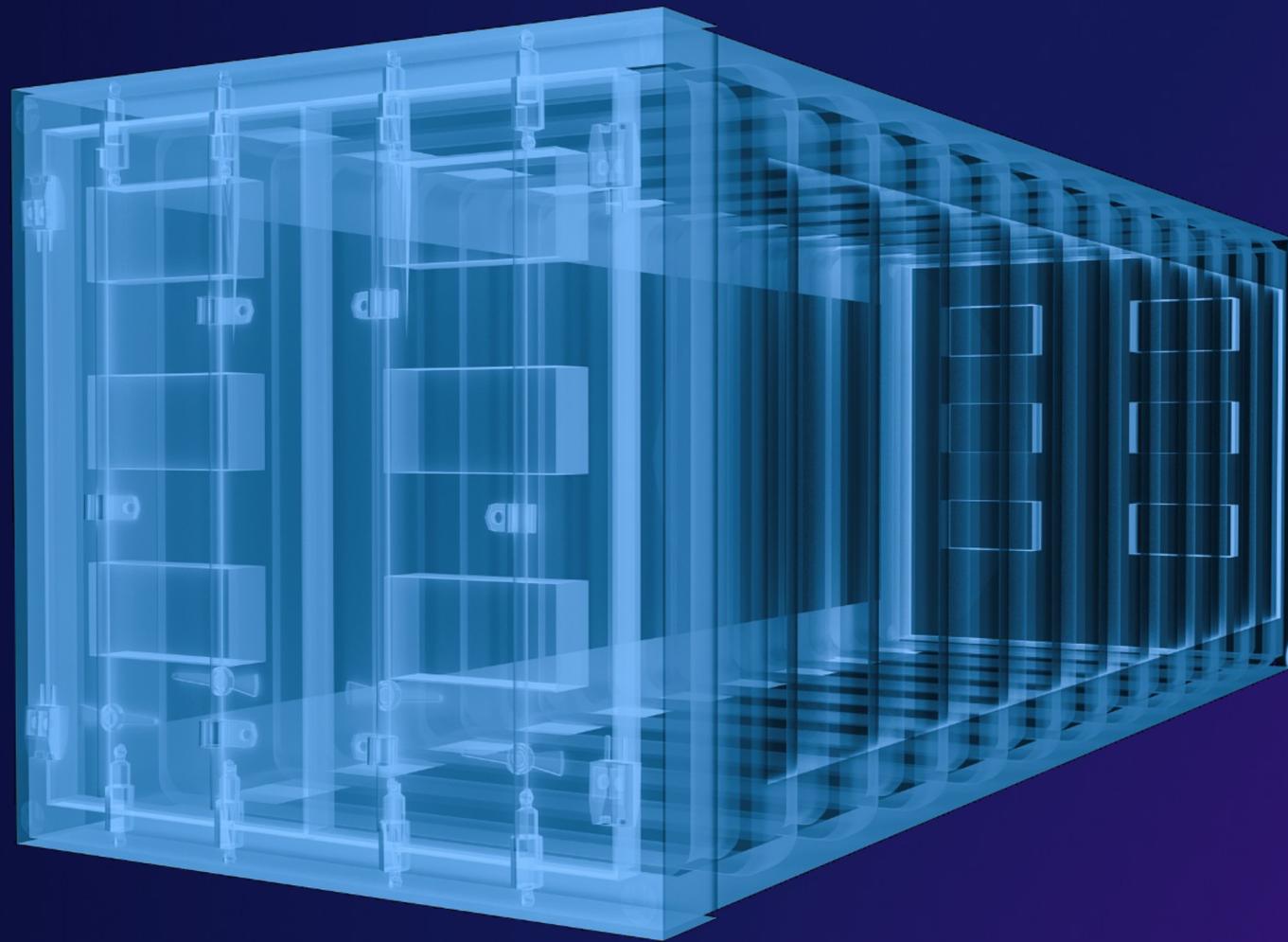
- What are containers and why are customers using them?



A large cargo ship is docked at a port terminal. Several blue straddle carriers are positioned around the ship, some with red and white markings. One crane has the number '58' visible on its side. The background shows more port infrastructure and a clear sky.

Why are companies adopting containers?

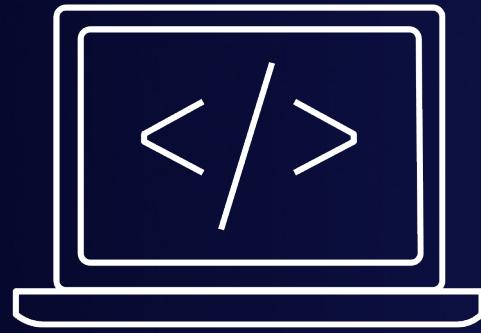
- Accelerate software development
- Build modern applications
- Automate operations at web scale



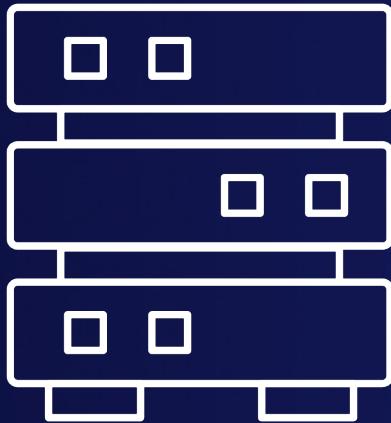
Application environment components



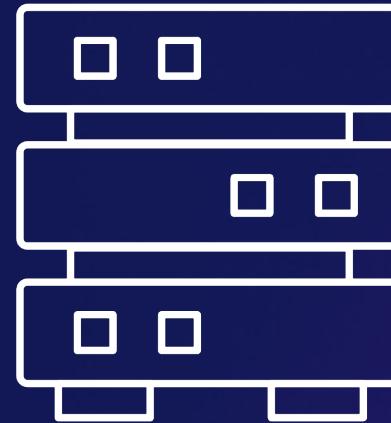
Different environments



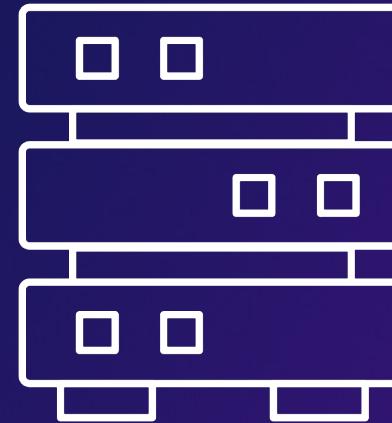
Local Laptop



Staging / QA



Production



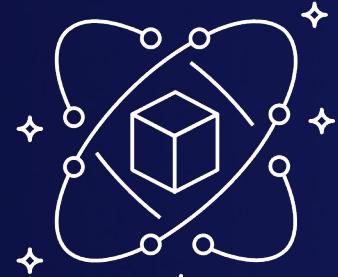
On-Prem

It worked on my machine, why not in prod?



Containers to the rescue

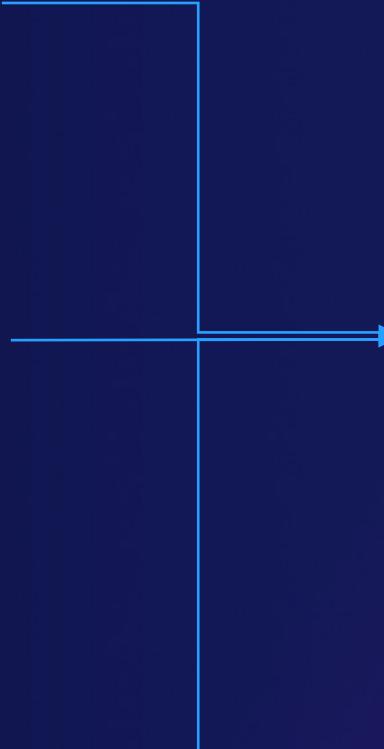
Runtime Engine



Dependencies



Code





What is Docker?

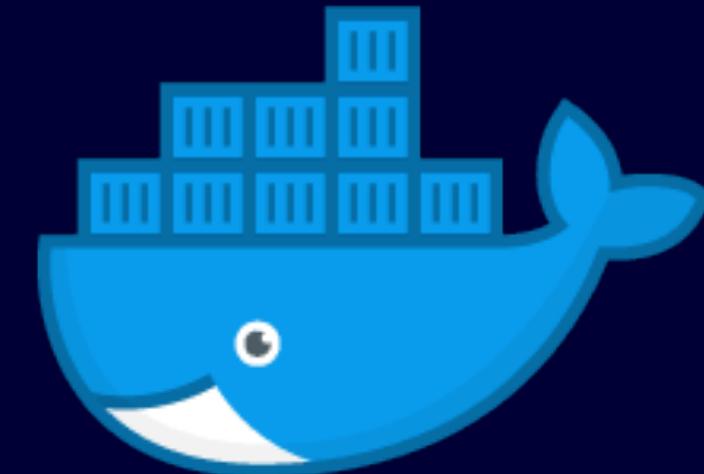
Lightweight container virtualization platform.

Ecosystem of tools to manage and deploy your applications

Licensed under the Apache 2.0 license.

Built by Docker, Inc.

Moby: Open source project



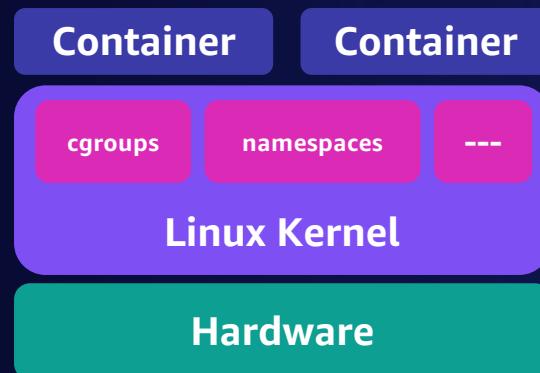
docker



Containers vs VMs

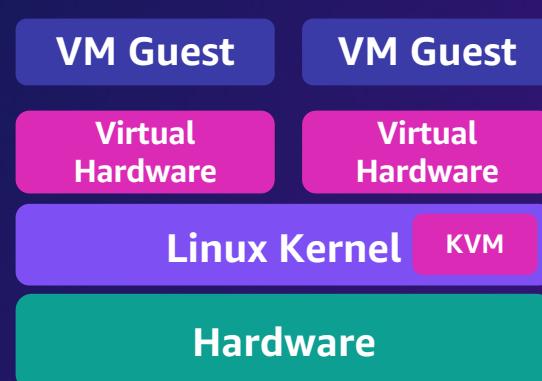
Containers

- Using Linux primitives for isolation
- Share Linux Kernel
- Fast starts, minimal overhead
- Flexible isolation



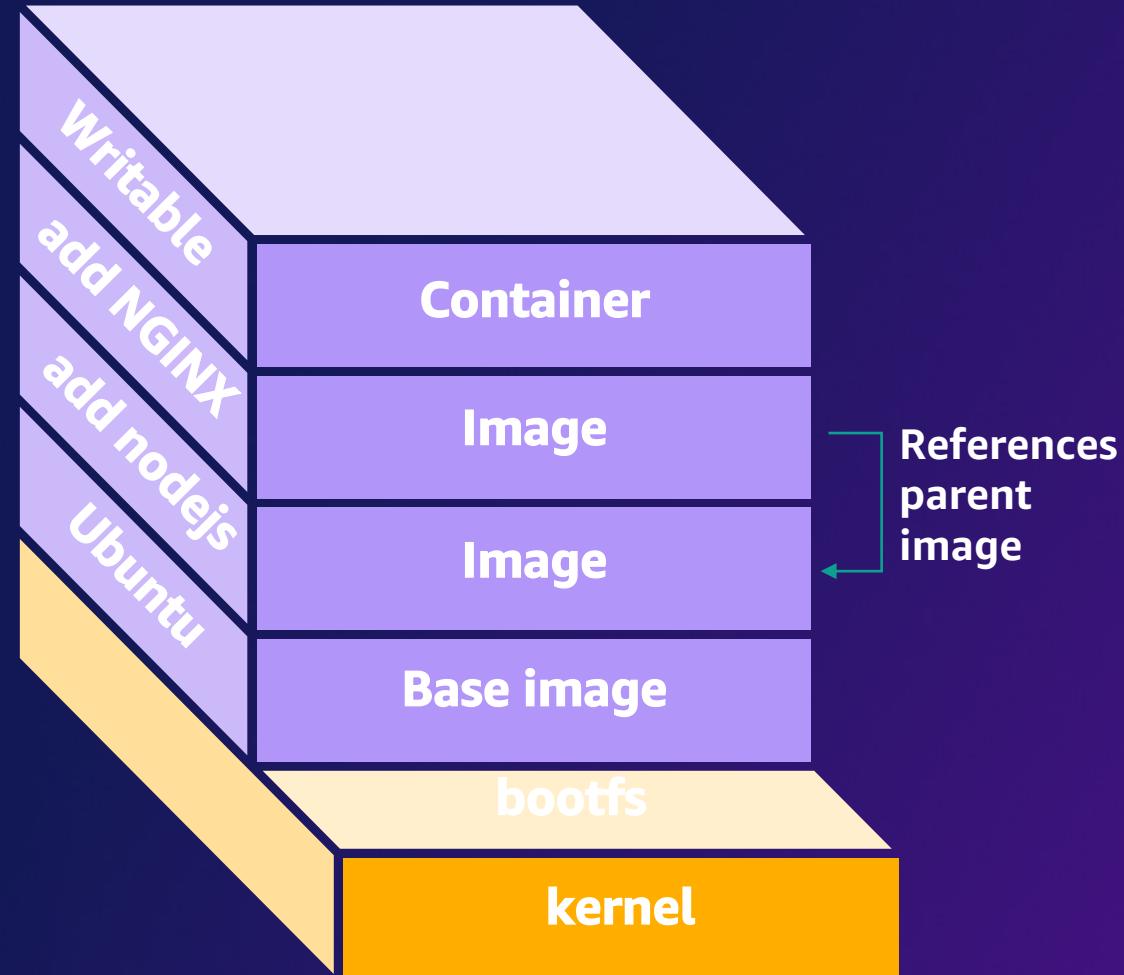
Virtual Machines

- Virtualisation or emulate hardware components
- Completely separate kernels (maybe not Linux)
- Slower starts, must boot kernel and set-up hardware.

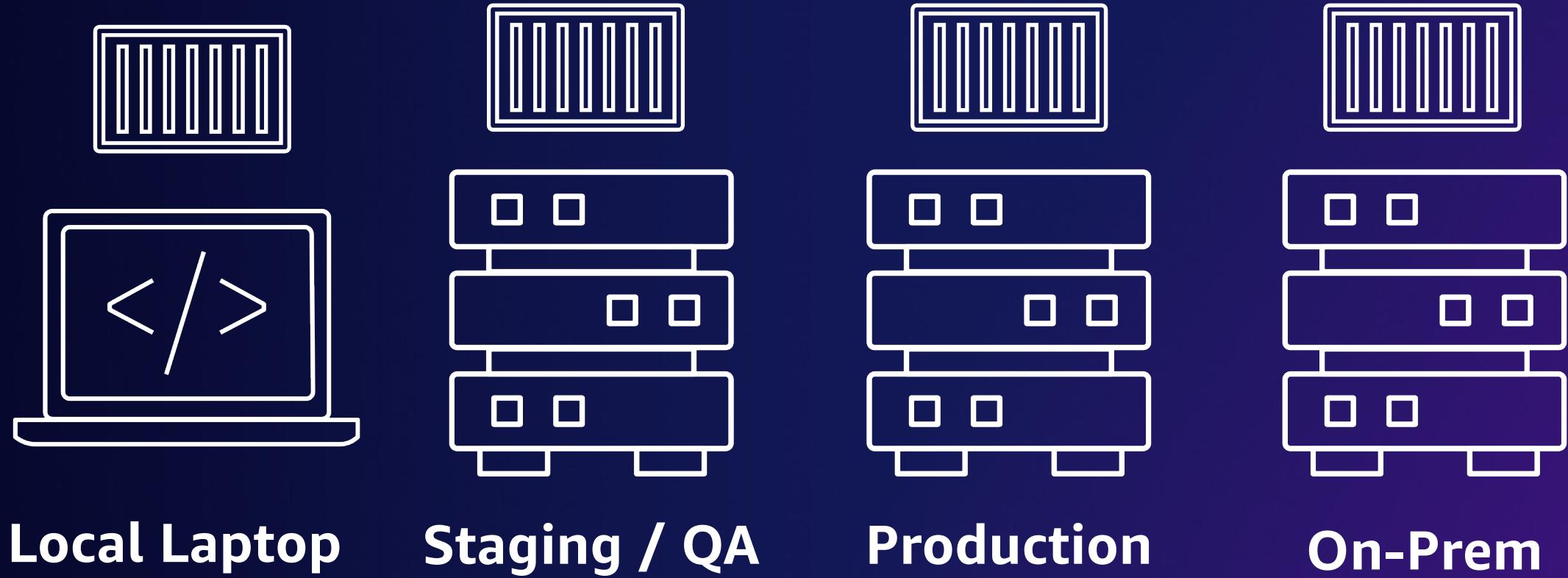


Container images

- Read only image that is used as a template to launch a container.
- Start from base images that have your dependencies, add your custom code.
- Dockerfile for easy, reproducible builds.



Four environments, same container



Container benefits



Runs reliably everywhere



Run different apps simultaneously



Better resource utilization

Managing many containers is hard



AWS Container Services

Panyapol Chuenwatanakul (Leo)

Solutions Architect
Amazon Web Services (Thailand)



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AWS container services landscape

Management

Deployment, Scheduling,
Scaling & Management of
containerized applications



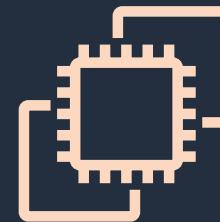
Amazon Elastic
Container Service



Amazon Elastic
Container Service
for Kubernetes

Hosting

Where the containers run



Amazon EC2



AWS Fargate

Image Registry

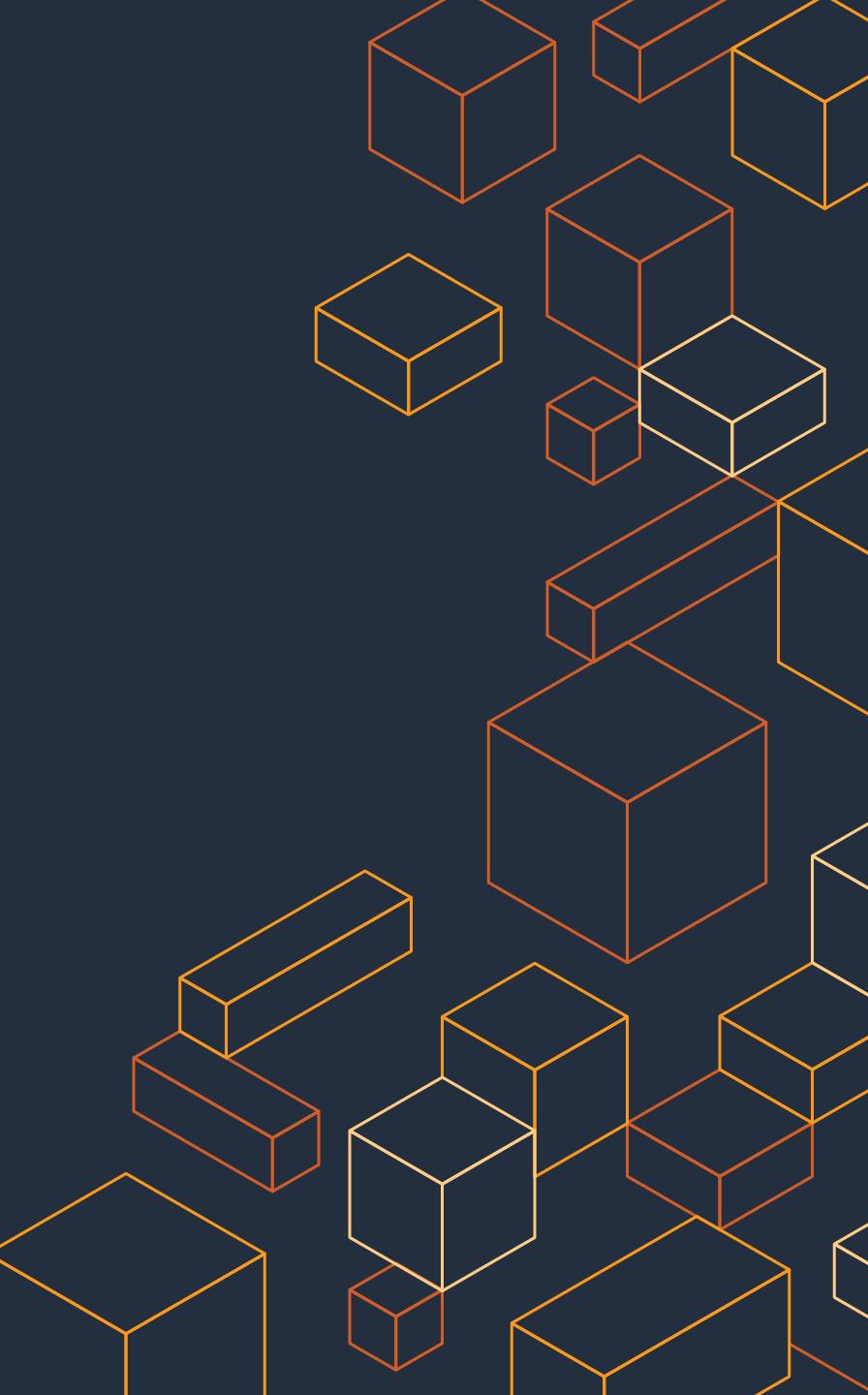
Container Image Repository



Amazon Elastic
Container Registry



Amazon ECR



What is Amazon ECR

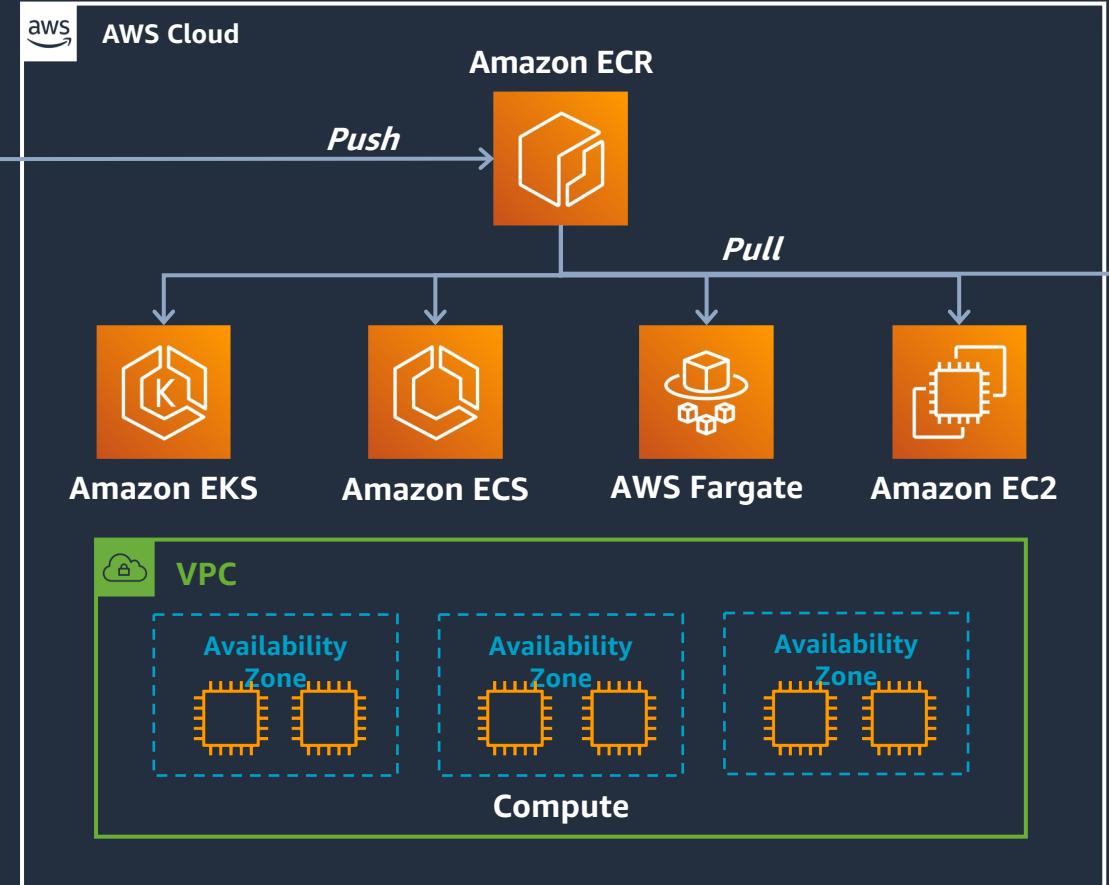
FULLY-MANAGED CONTAINER ARTIFACT REGISTRY

Managed and scalable infrastructure

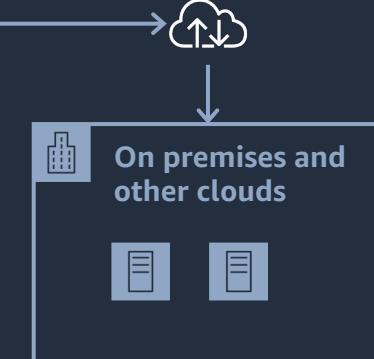
Highly available, high performance

Security with encrypted images and vulnerability scans

Authenticated access, centralized IAM control



Docker and OCI compliant to pull anywhere



Container images, Helm charts, OCI artifacts

Native integration to AWS orchestrators and compute



Amazon ECR pricing



You only pay for the amount of data you store, and data transferred to the internet.

Storage is **\$0.10** per GB-month beyond free tier.



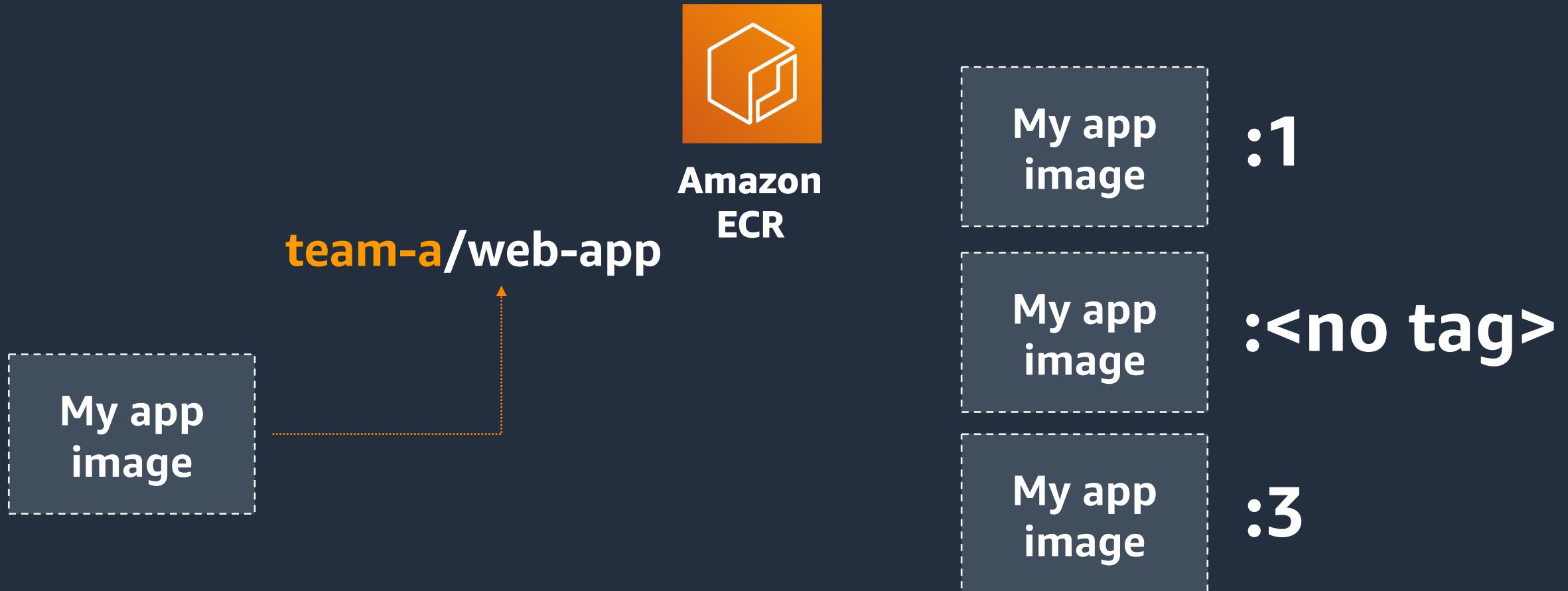
50 GB-month of always-free storage for your public repositories, and **free tier** includes 500 MB-month of storage for one year for your private repositories.



You can transfer 500 GB-month of data to the internet for free from a public repository anonymously, and 5 TB-month with an AWS account.

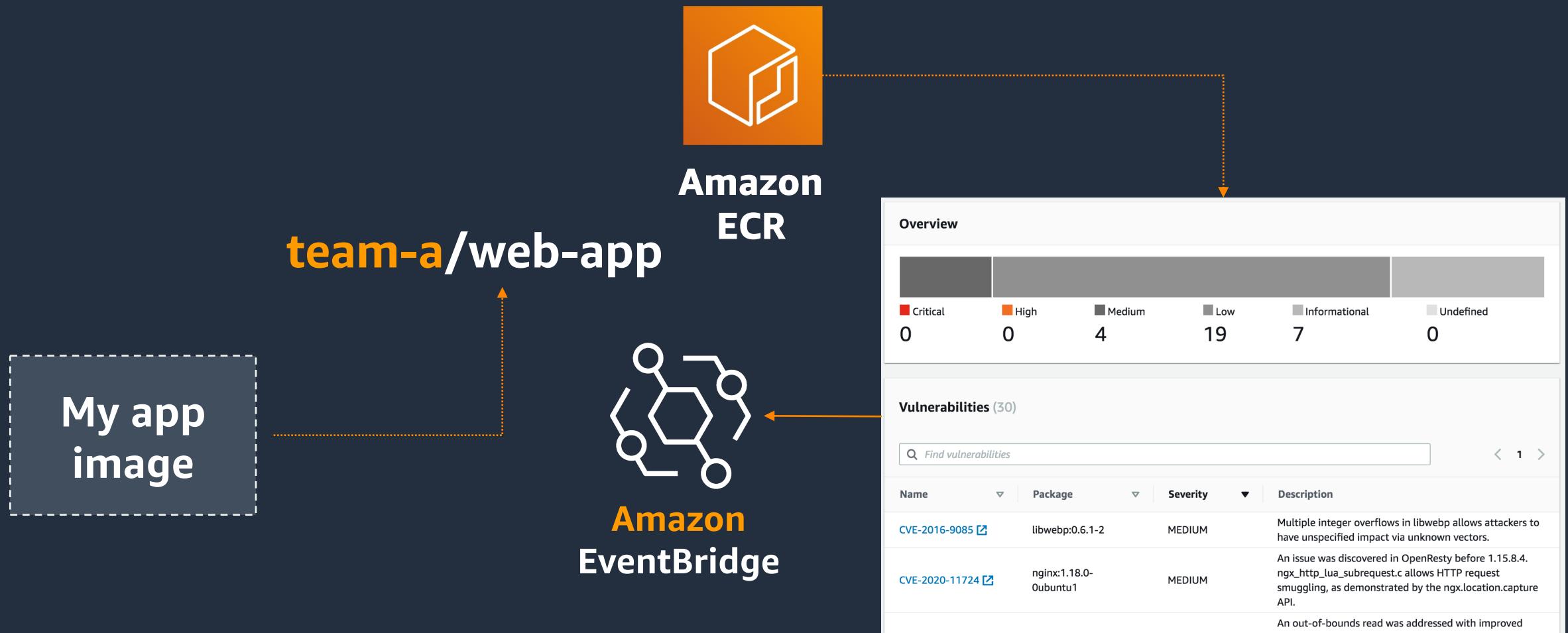
Container Images: Lifecycle policies

<https://205094881157.dkr.ecr.us-west-2.amazonaws.com>

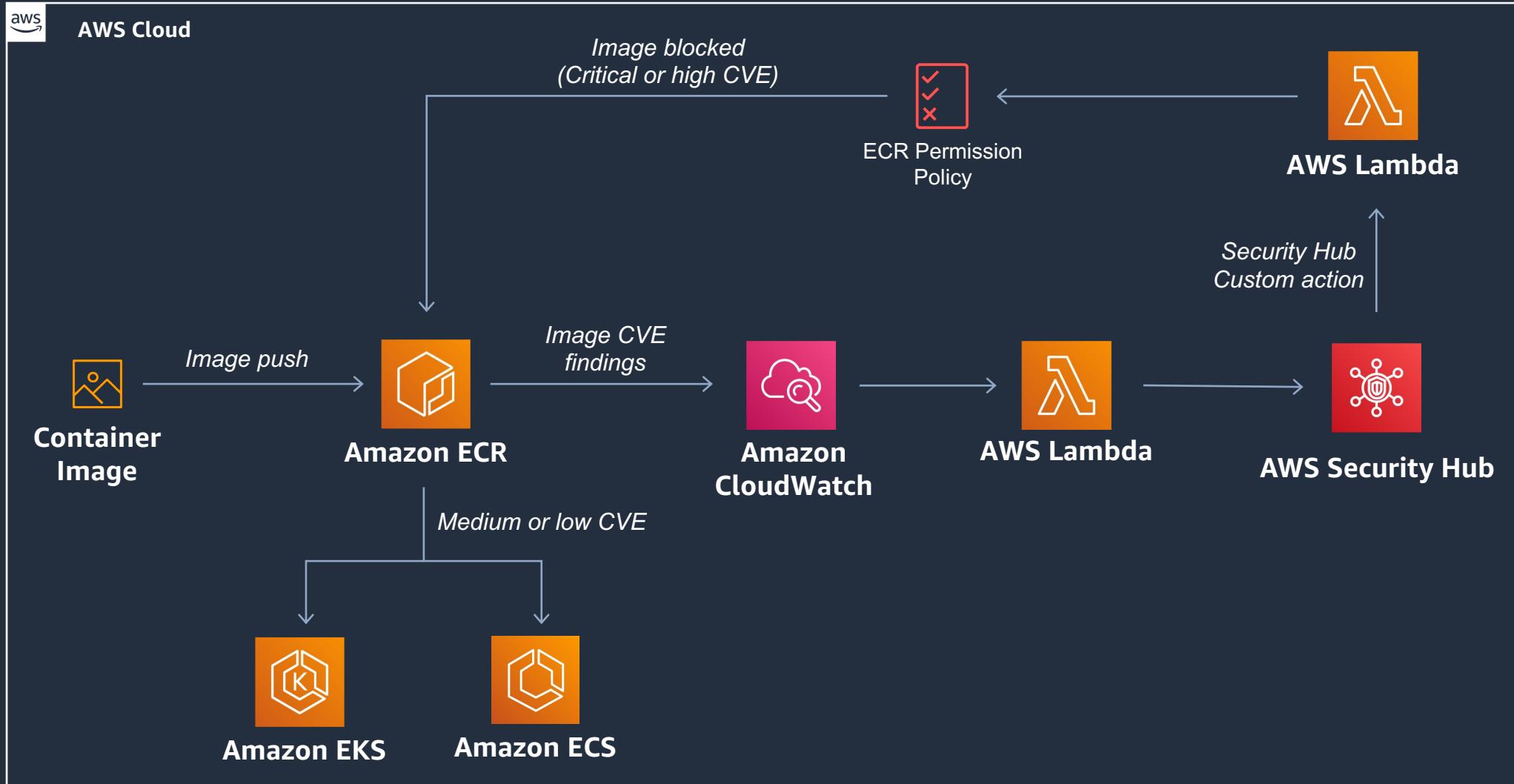


Container Images: Image scanning

<https://205094881157.dkr.ecr.us-west-2.amazonaws.com>



Container Images: Automate compliance with image scanning



Amazon ECR Public



registry-alias/web-app

```
{
  "Version": "2008-10-17",
  "Statement": [
    {
      "Sid": "ECR Public Repository Policy"
      "Effect": "Allow",
      "Principal": {
        "AWS": "arn:aws:iam::account-id:user/username"
      }
      "Action": [
        "ecr-public:DescribeImages",
        "ecr-public:DescribeRepositories"
      ]
    }
  ]
}
```

A screenshot of the Amazon ECR Public Gallery interface. At the top, there's a search bar with the placeholder 'Find artifact repositories'. Below it, the title 'Amazon ECR Public Gallery' and the subtitle 'Share and deploy container images, publicly and privately'. On the left, a sidebar titled 'Filters' includes sections for 'Verification' (Info), 'Operating Systems' (Linux, Windows), and 'Architectures' (ARM, ARM 64, x86, x86-64). On the right, a main area titled 'Repositories' shows results for 'cloudwatch-agent' and 'aws-xray-daemon'.

Repository	Uploader	Status
cloudwatch-agent	by Amazon Cloudwatch Agent	Verified account
aws-xray-daemon	by AWS X-Ray	Verified account

Showing 1 - 20 results (of 45482)

cloudwatch-agent
by Amazon Cloudwatch Agent Verified account
Registry alias: cloudwatch-agent
976M+ Downloads
Amazon Cloudwatch Agent
Linux x86-64 ARM 64

aws-xray-daemon
by AWS X-Ray Verified account
Registry alias: xray

Amazon ECS

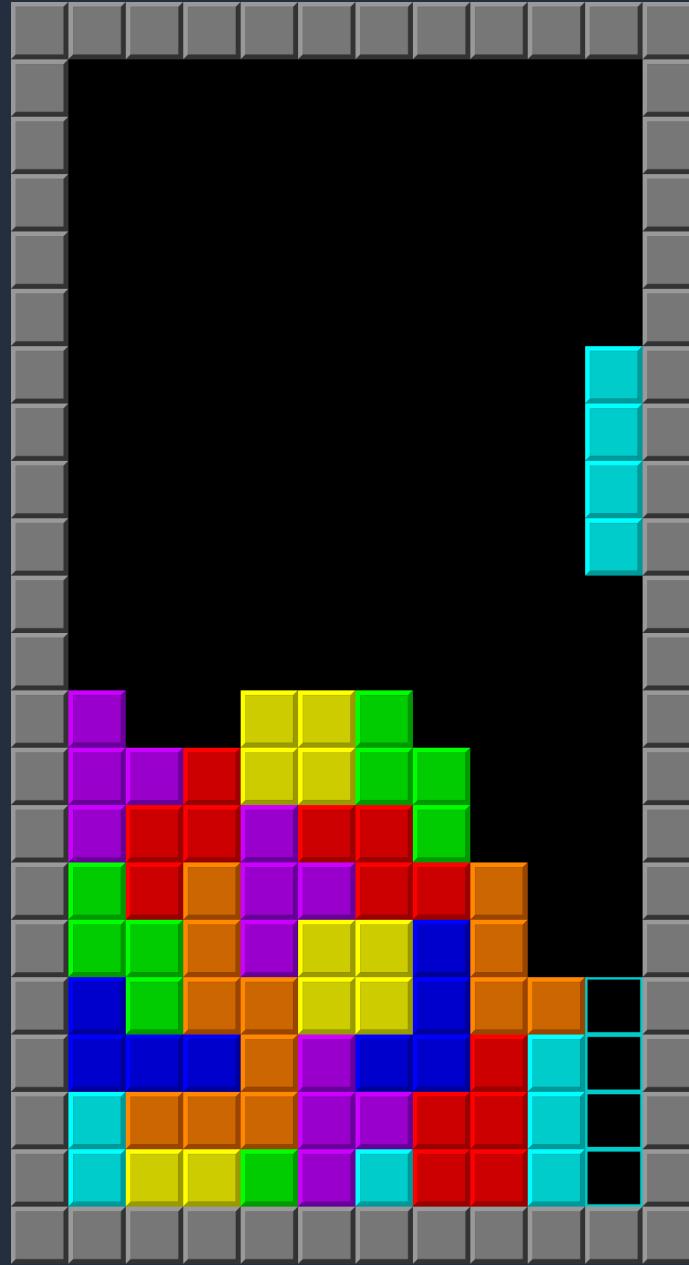


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Amazon Elastic Container Service

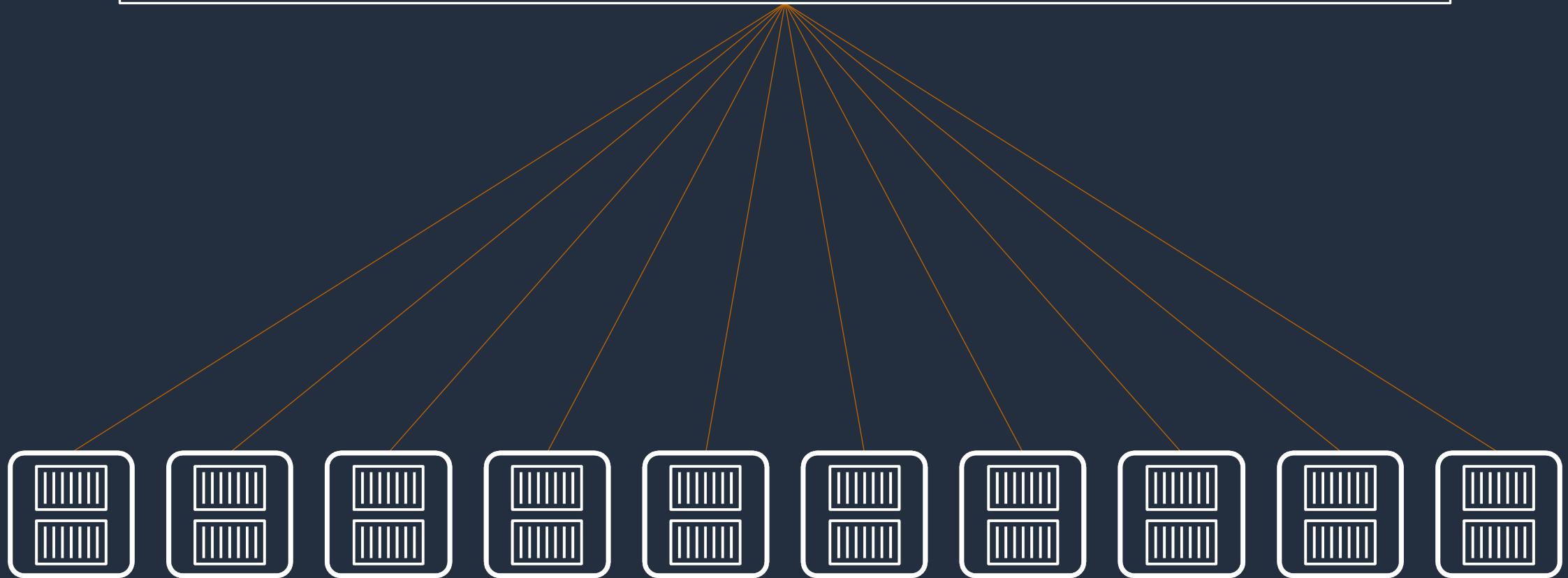




Scheduling and Orchestration

Cluster Manager

Placement Engine

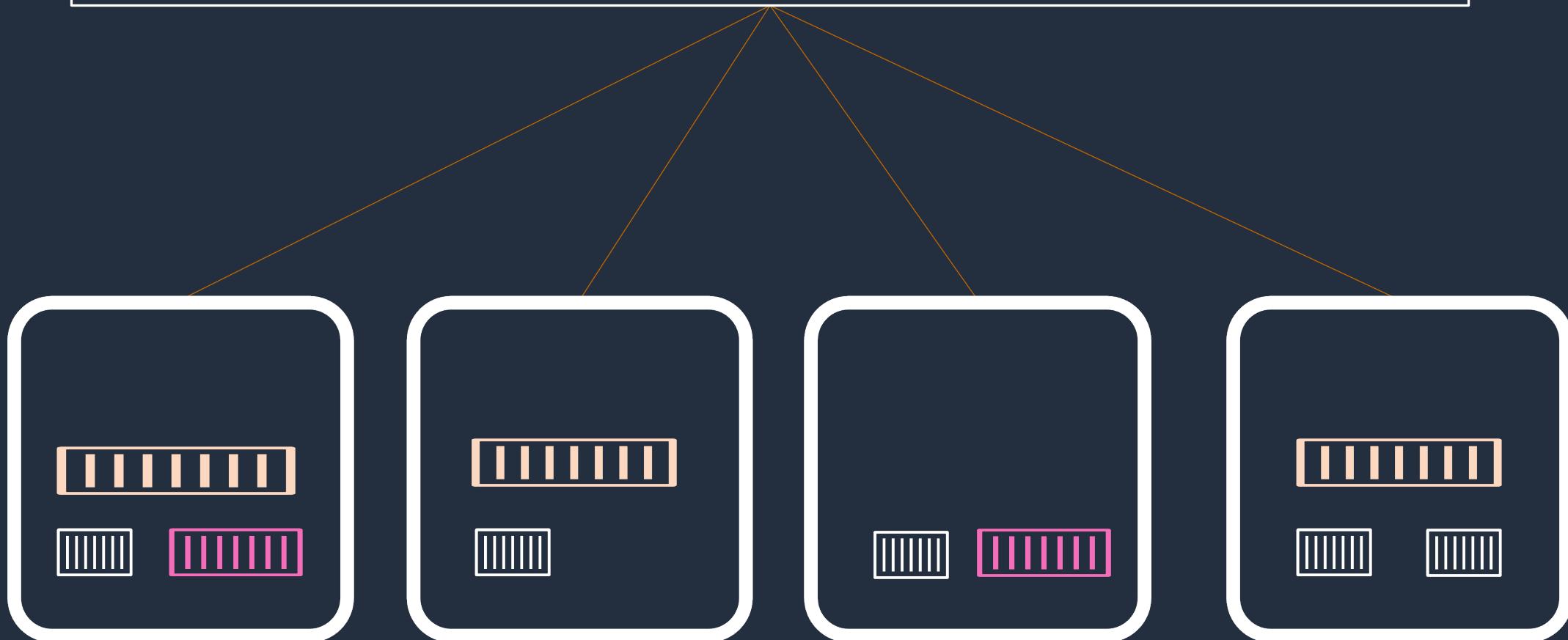


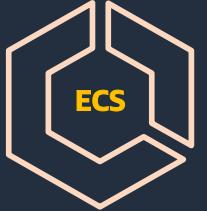


Scheduling and Orchestration

Cluster Manager

Placement Engine

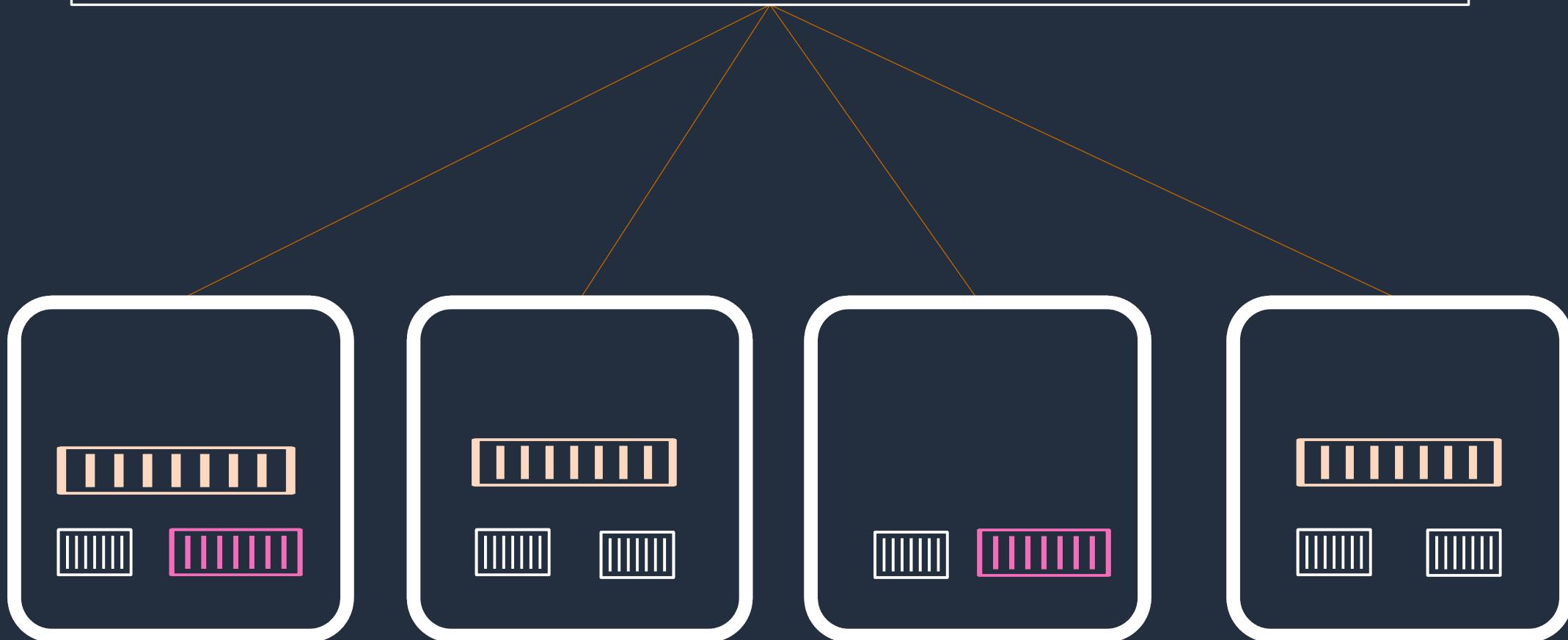


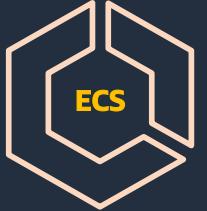


Scheduling and Orchestration

Cluster Manager

Placement Engine

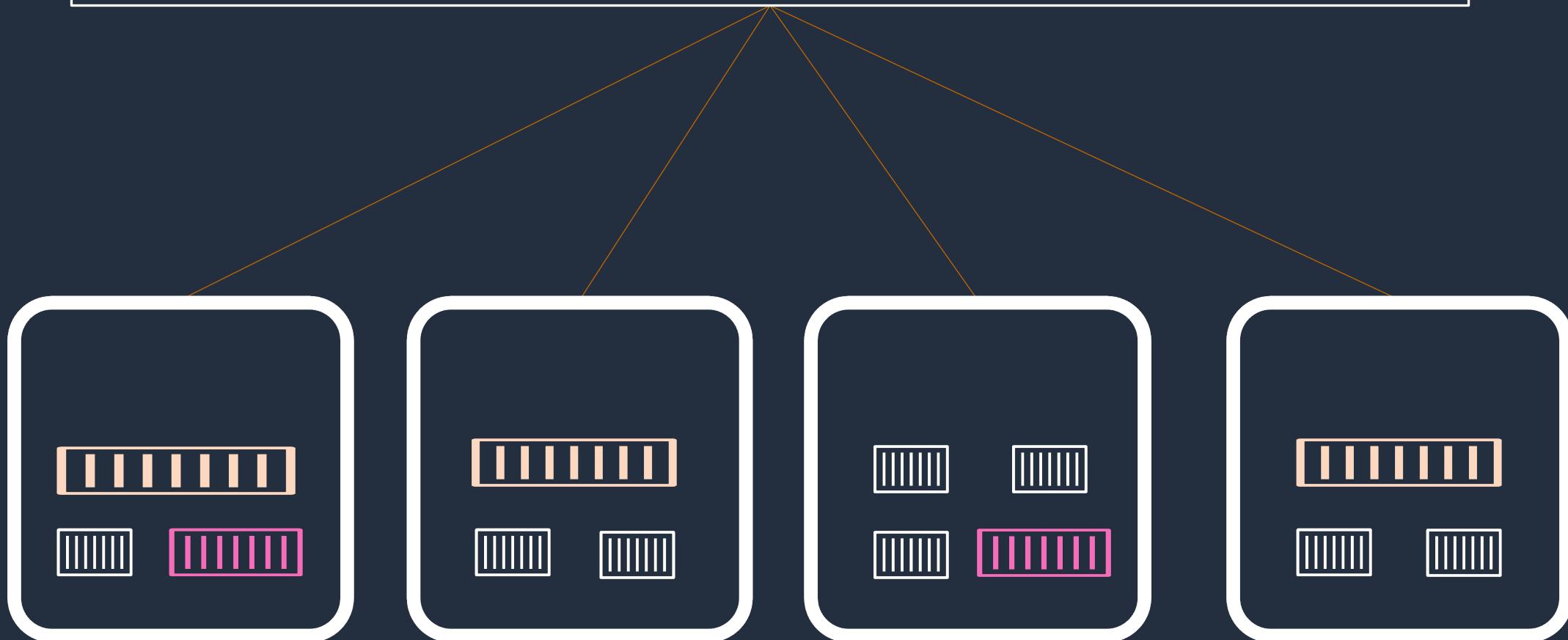


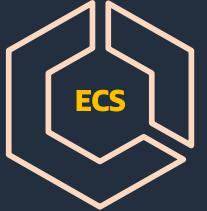


Scheduling and Orchestration

Cluster Manager

Placement Engine

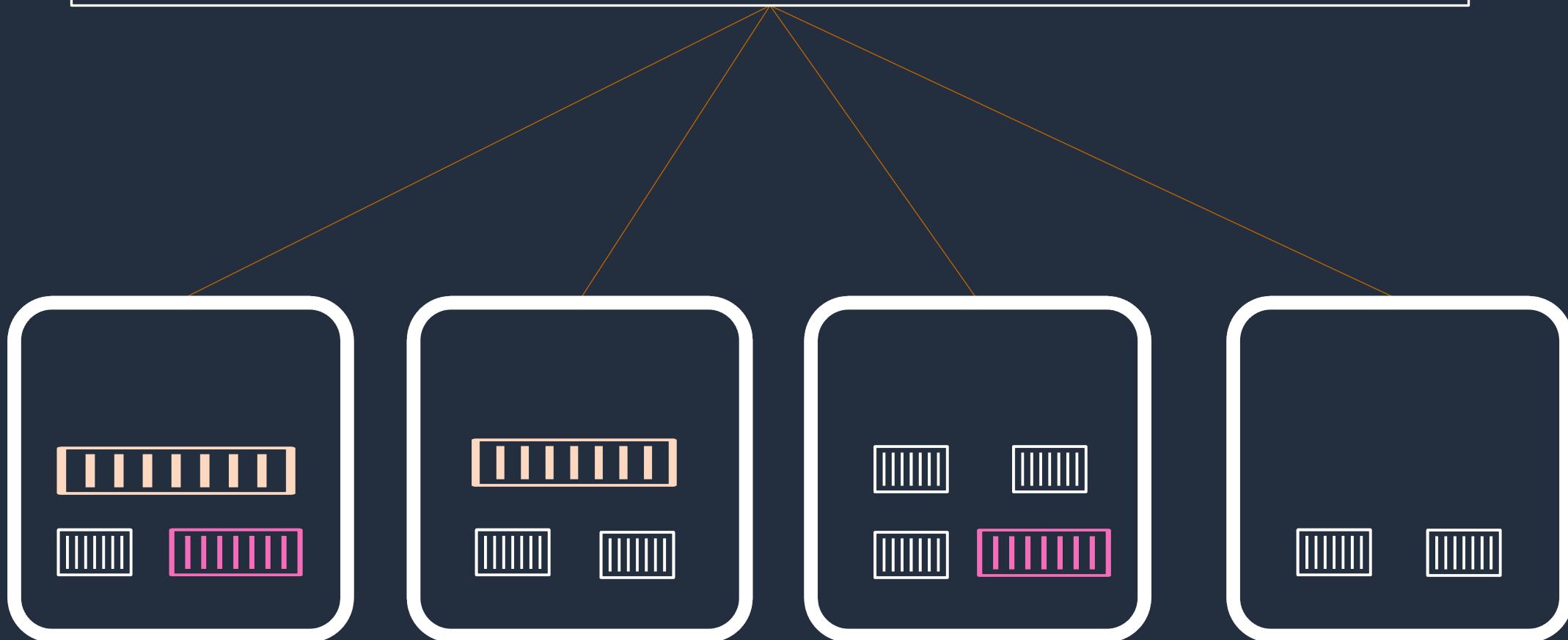




Scheduling and Orchestration

Cluster Manager

Placement Engine

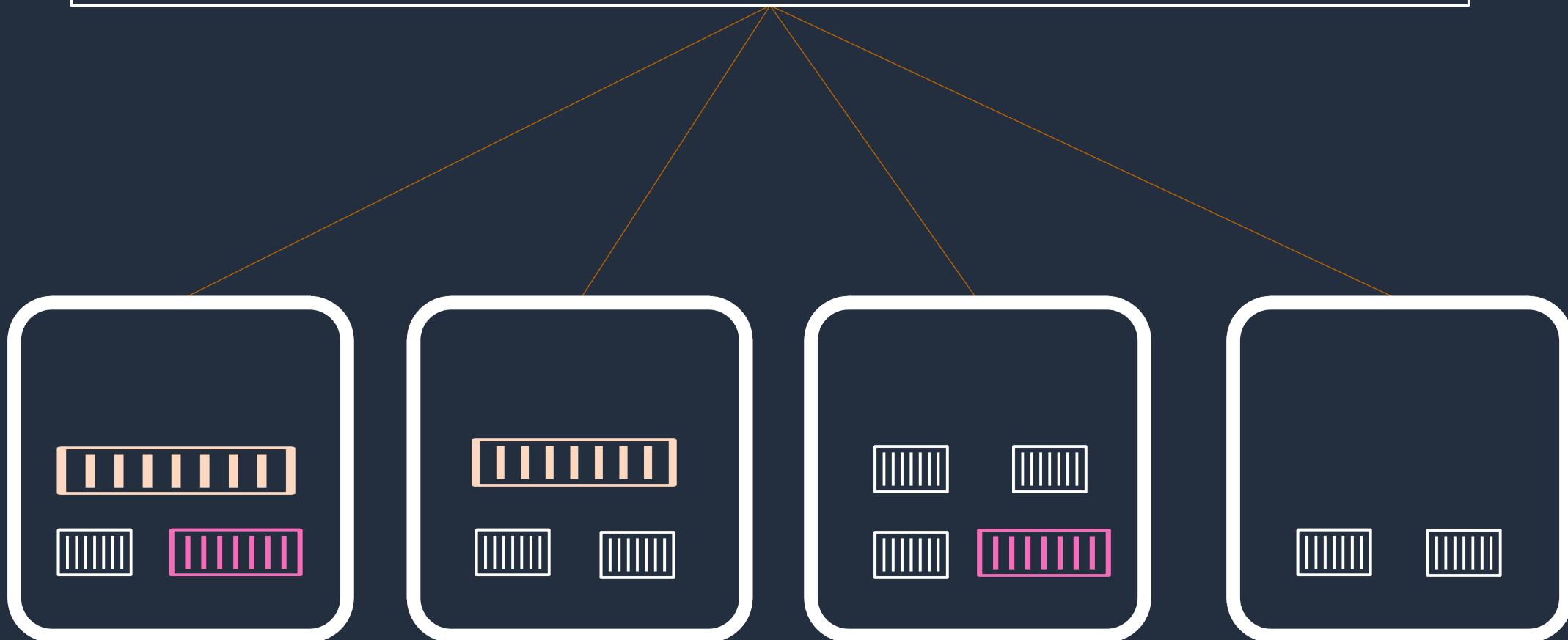


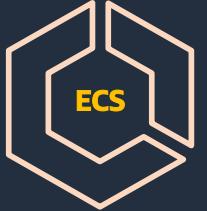


Scheduling and Orchestration

Cluster Manager

Placement Engine

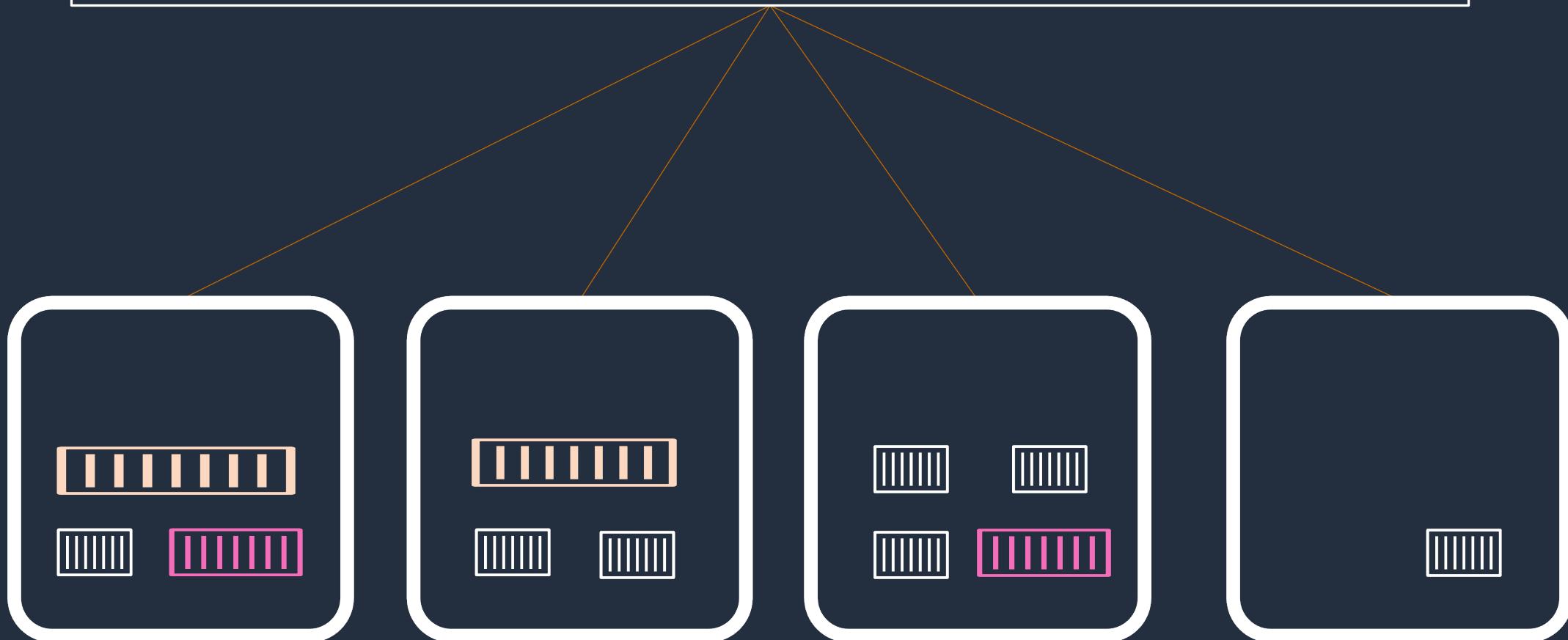


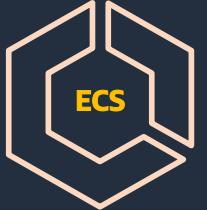


Scheduling and Orchestration

Cluster Manager

Placement Engine

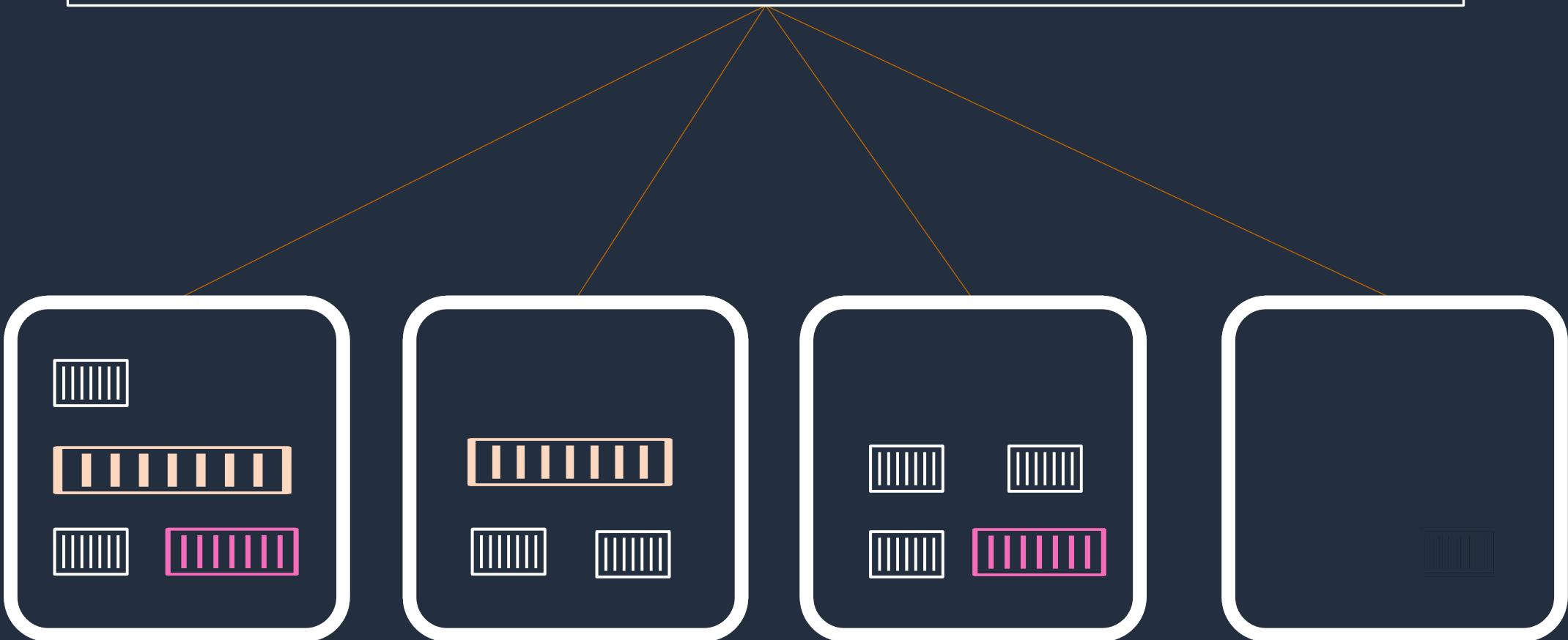




Scheduling and Orchestration

Cluster Manager

Placement Engine

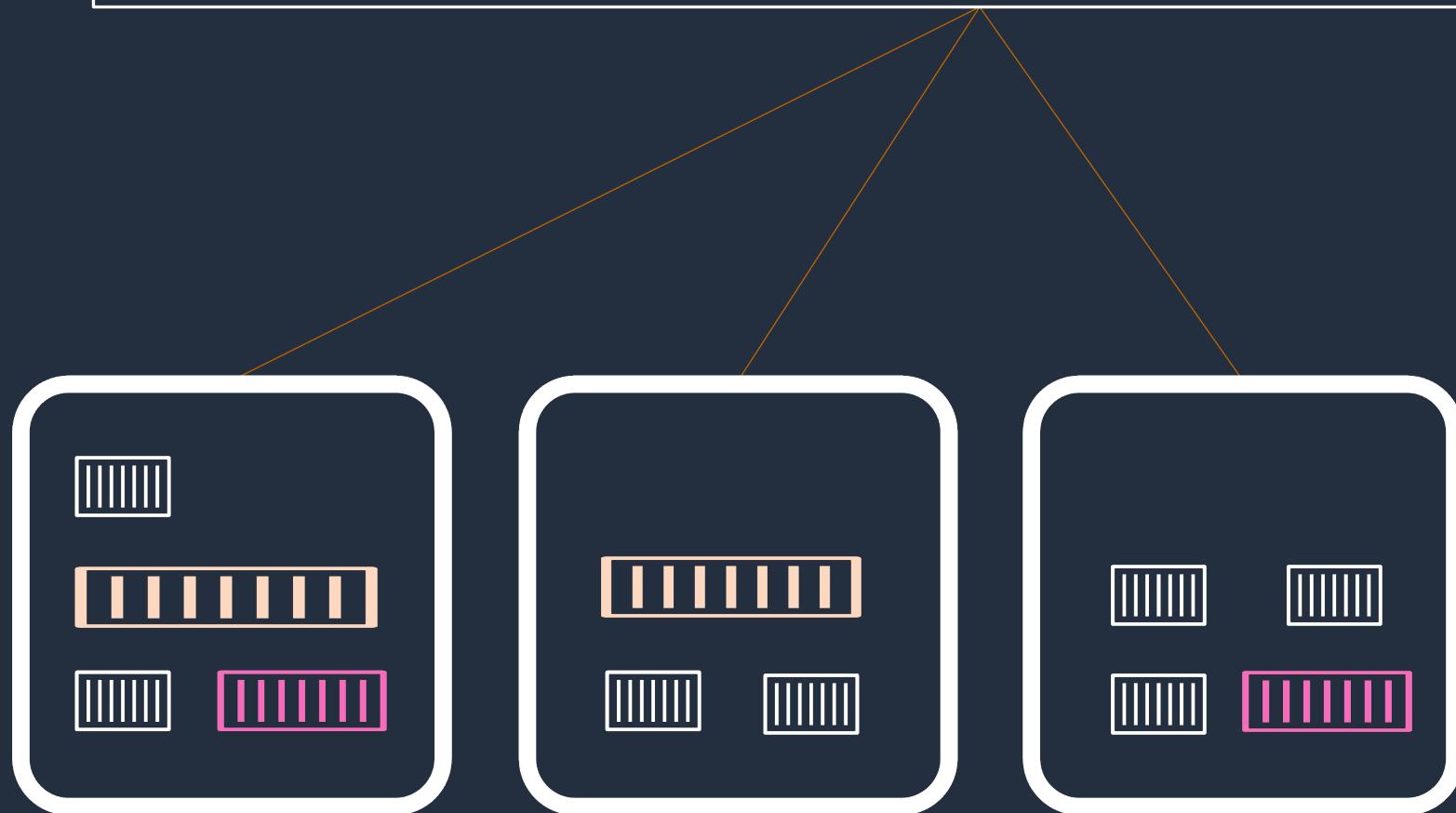




Scheduling and Orchestration

Cluster Manager

Placement Engine





Amazon ECS constructs

Cluster

- Resource grouping and isolation
- IAM permissions boundary



Amazon ECS constructs

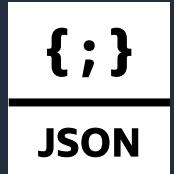
Cluster

- Resource grouping and isolation
- IAM permissions boundary



Container
Instance

Amazon ECS constructs



Task definition

- Template used by Amazon ECS to launch tasks
- Parallels to docker run parameters
- Defines requirements:
 - CPU/Memory
 - Container image(s)
 - Logging
 - IAM role
 - Etc.

Cluster

- Resource grouping and isolation
- IAM permissions boundary

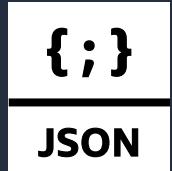


Container Instance

Task

- Running instance of a task definition
- One or more containers

Amazon ECS constructs

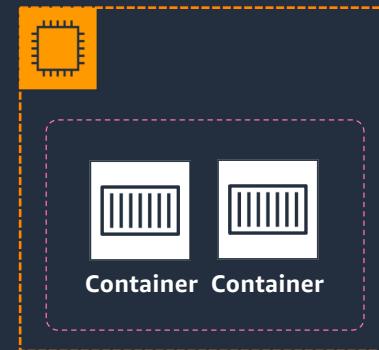


Task definition

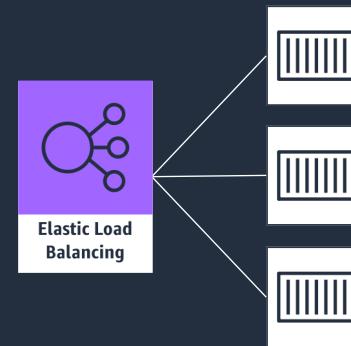
- Template used by Amazon ECS to launch tasks
- Parallels to docker run parameters
- Defines requirements:
 - CPU/Memory
 - Container image(s)
 - Logging
 - IAM role
 - Etc.

Cluster

- Resource grouping and isolation
- IAM permissions boundary



Container Instance



Task

- Running instance of a task definition
- One or more containers

Service

- Maintains desired # of running tasks
- Replaces unhealthy tasks
- ELB integration

Task definition

```
{  
  "containerDefinitions": [  
    {  
      "memory": 128,  
      "portMappings": [  
        {  
          "hostPort": 80,  
          "containerPort": 80,  
          "protocol": "tcp"  
        }  
      ],  
      "essential": true,  
      "name": "nginx-container",  
      "image": "nginx",  
      "logConfiguration": {  
        "logDriver": "awslogs",  
        "options": {  
          "awslogs-group": "ecs-log-streaming",  
          "awslogs-region": "us-west-2",  
          "awslogs-stream-prefix": "fargate-task-1"  
        }  
      },  
    },  
  ],  
}
```

continued...

```
          "cpu": 0  
        }  
      ],  
      "networkMode": "awsvpc",  
      "executionRoleArn":  
        "arn:aws:iam::123456789012:role/ecsTask  
ExecutionRole",  
      "memory": "2048",  
      "cpu": "1024",  
      "requiresCompatibilities": [  
        "FARGATE"  
      ],  
      "family": "example_task_1"  
    }  
  }
```



Deploying on ECS: Tasks vs Services

On-Demand Workloads

ECS task scheduler

Run once or at intervals

Batch jobs

RunTask API

StartTask (custom)

Long-Running Apps

ECS service scheduler

Health management

Scale-up and scale-down

AZ aware

Grouped containers



Task placement

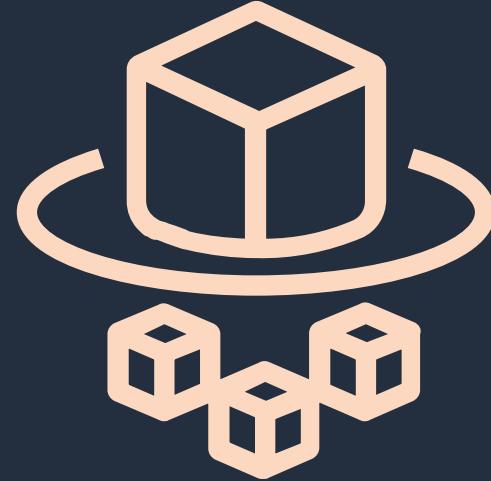


Satisfy CPU, memory, and networking requirements

Filter for location, instance-type, AMI, or other custom attribute constraints

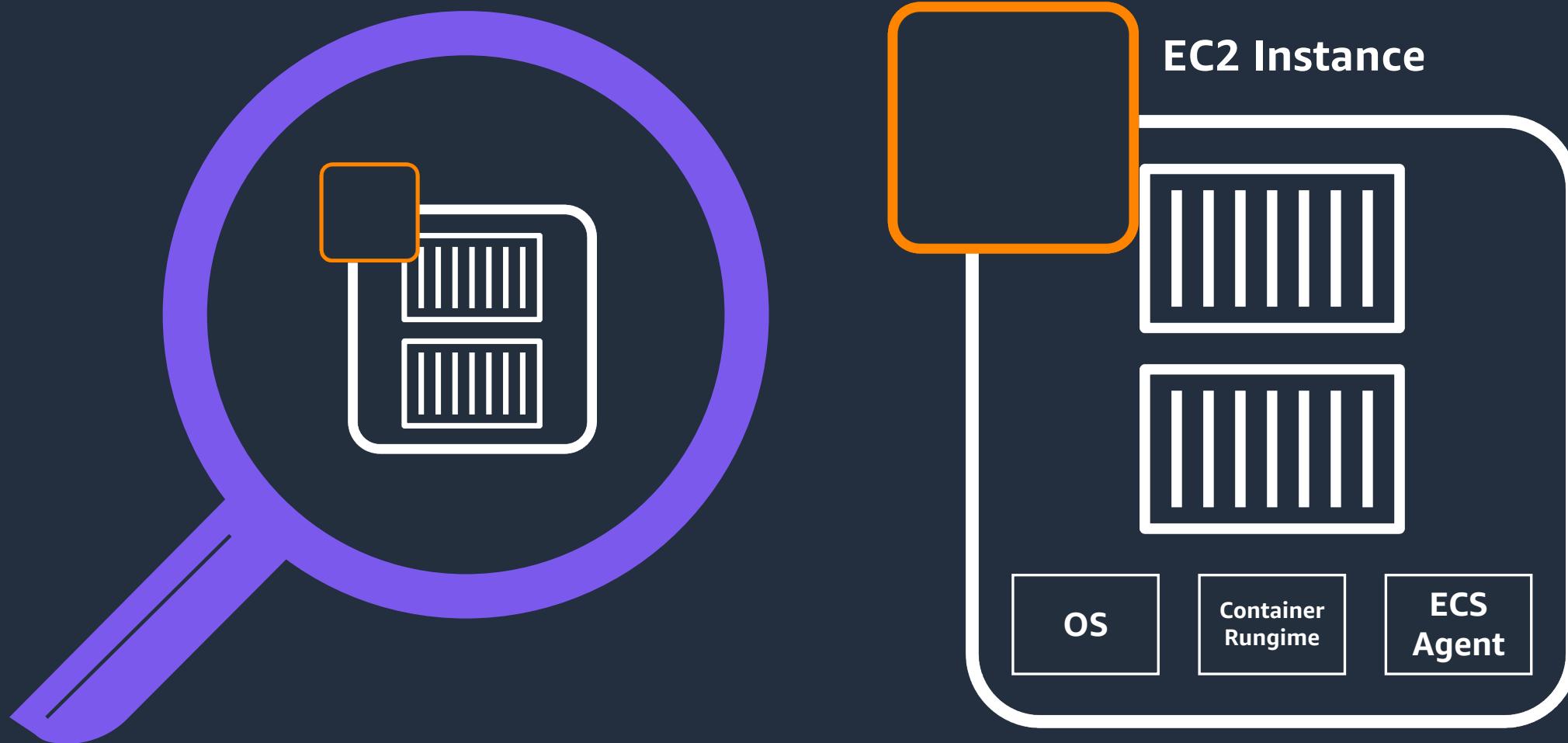
Identify instances that meet spread or binpack placement strategy

Select final container instances for placement



AWS Fargate

Without Fargate, you end up managing more than just containers

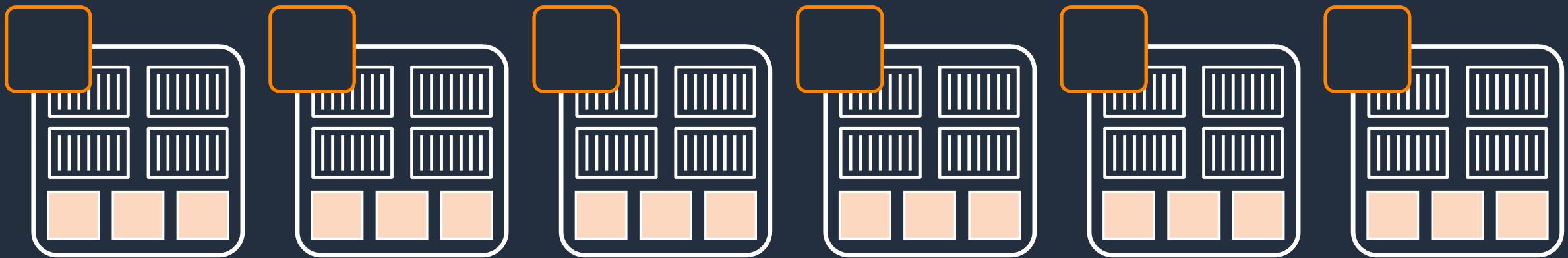


- - Patching and Upgrading OS, agents, etc.
- - Scaling the instance fleet for optimal utilization





Amazon Elastic Container Service





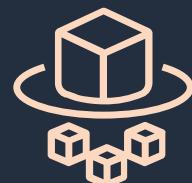
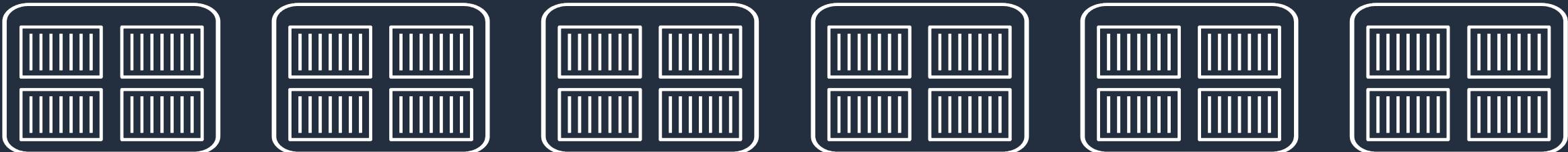
Amazon Elastic Container Service



AWS Fargate platform versions



Amazon Elastic Container Service

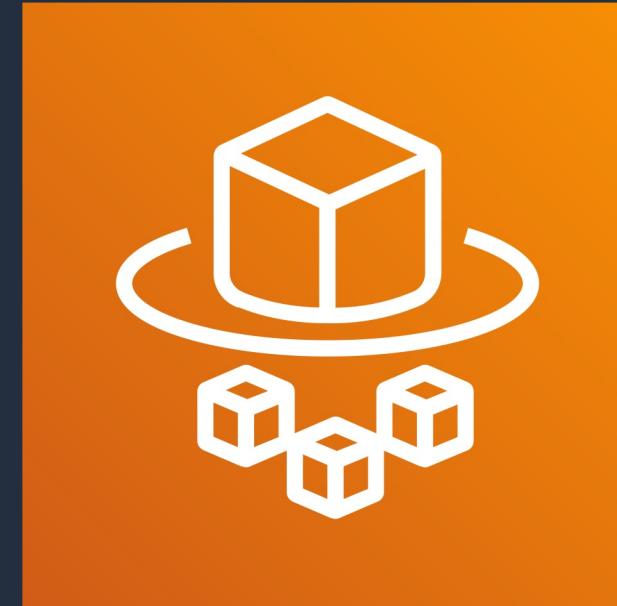


AWS Fargate
Platform version 1.4.0

Amazon ECS on AWS Fargate

Operating systems supported

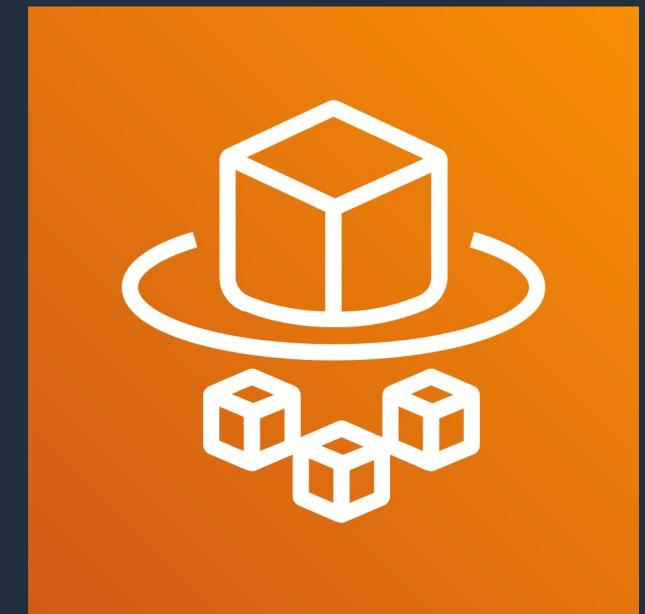
- Amazon Linux 2 (**ARM64** and **X86_64**)
- Microsoft Windows Server:
 - 2019 Full (**X86_64**)
 - 2019 Core (**X86_64**)
 - 2022 Full (**X86_64**)
 - 2022 Core (**X86_64**)

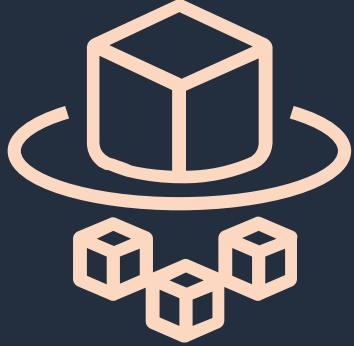


Security: Benefits of Fargate

We do more, you do less.

- Patching (OS, Docker, ECS Agent, etc.)
- Task isolation (via Clusters)
- No --privileged mode for containers
- Requires awsvpc network mode so there is an ENI and SG per Task
- Simple secure and auditable way to run commands in container – ECS Exec





**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

Enterprise Grade



**Payment Card Industry
(PCI) Security Standard**



**DOD Cloud Security Req's
Guide (SRG)**



**FedRAMP Moderate and
High (GovCloud)**



**Criminal Justice Information
Service Security Policy (CJIS)**



**U.S. Health Insurance
Portability and Accountability
Act (HIPAA)**



**SP 800-53 (rev 4)
SP 800-171**



**Federal Information Processing
Standard Pub (FIPS) 140-2**



**Health Information Trust
Alliance Common
Security Framework**





Amazon ECS Anywhere

ECS Anywhere: Game-changer

Fully managed cloud control plane

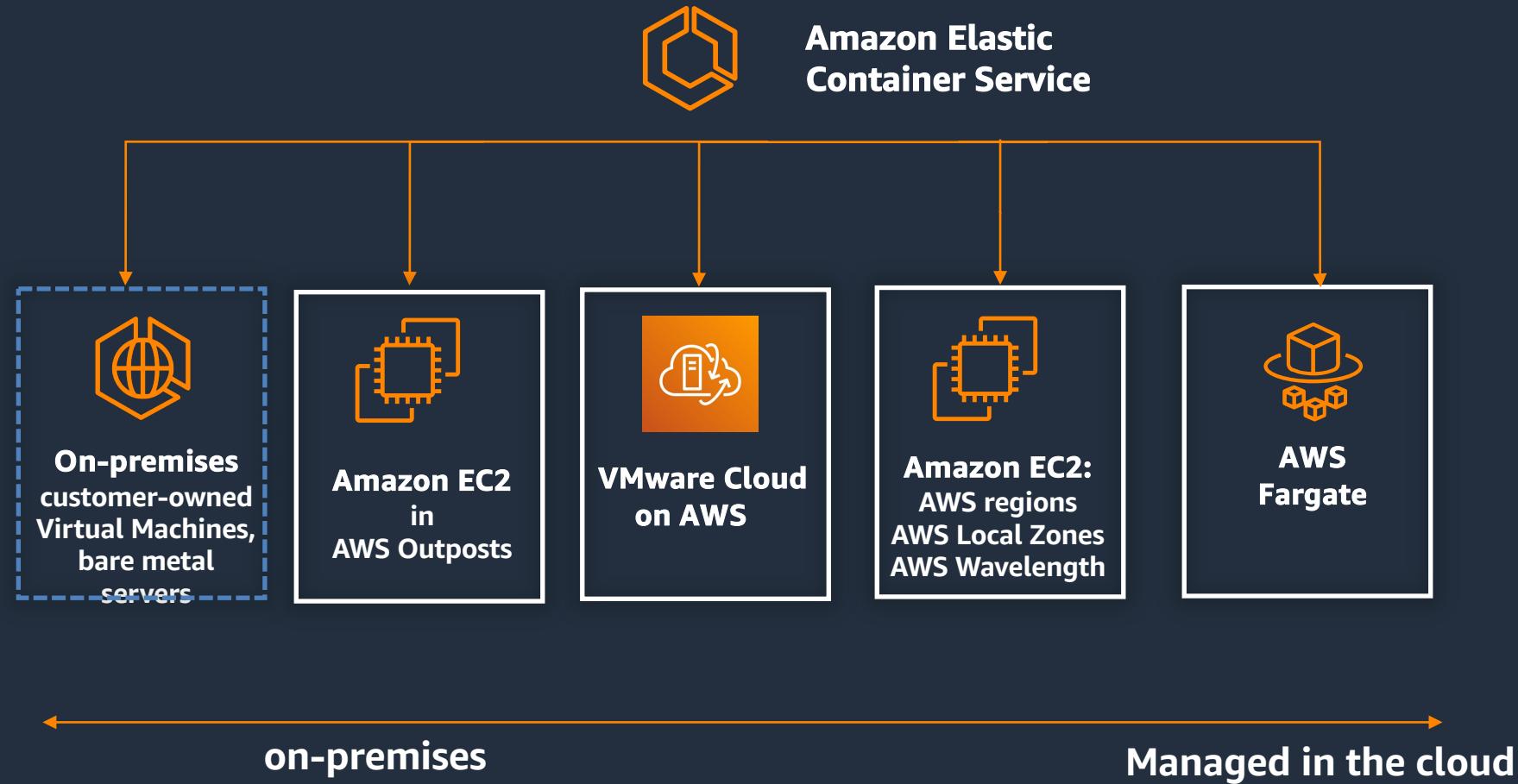
No need to run, update, or maintain container orchestrators on-premises

Consistent tooling and governance

Use the same tools and APIs for all container-based applications regardless of operating environment

Manage your hybrid footprint

Run applications in on-premises environments and easily expand to cloud when you're ready



Storage

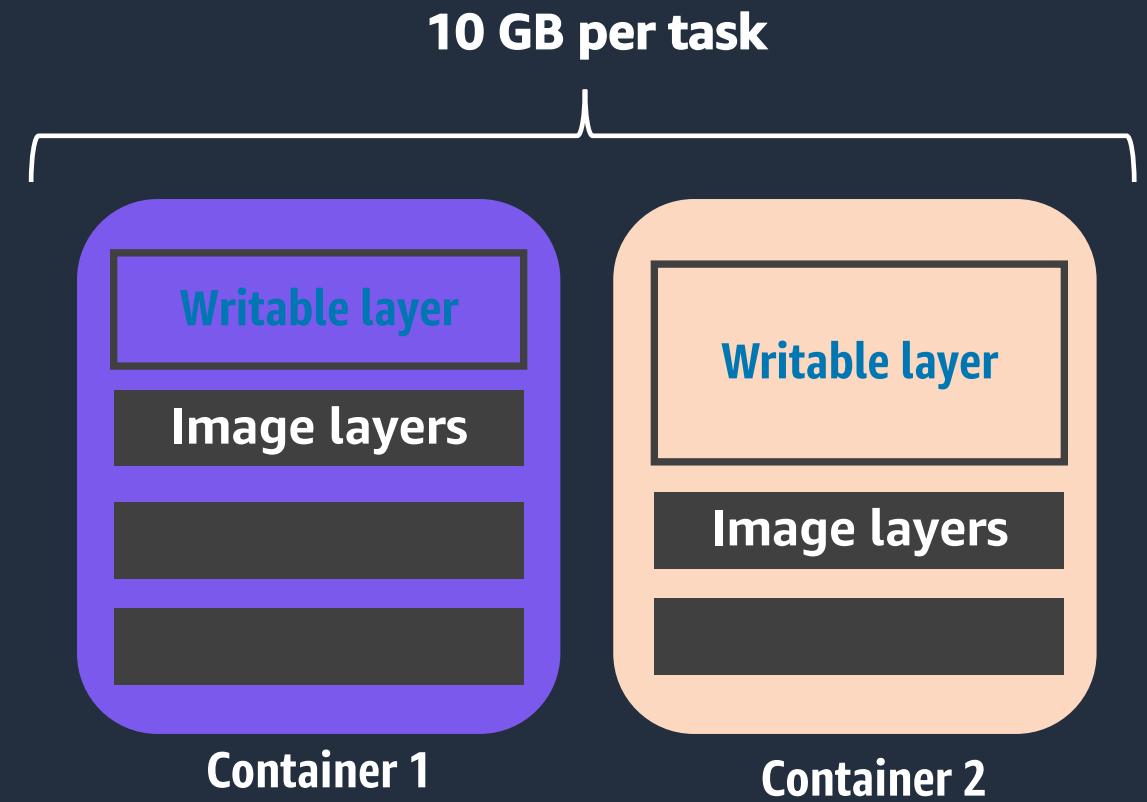


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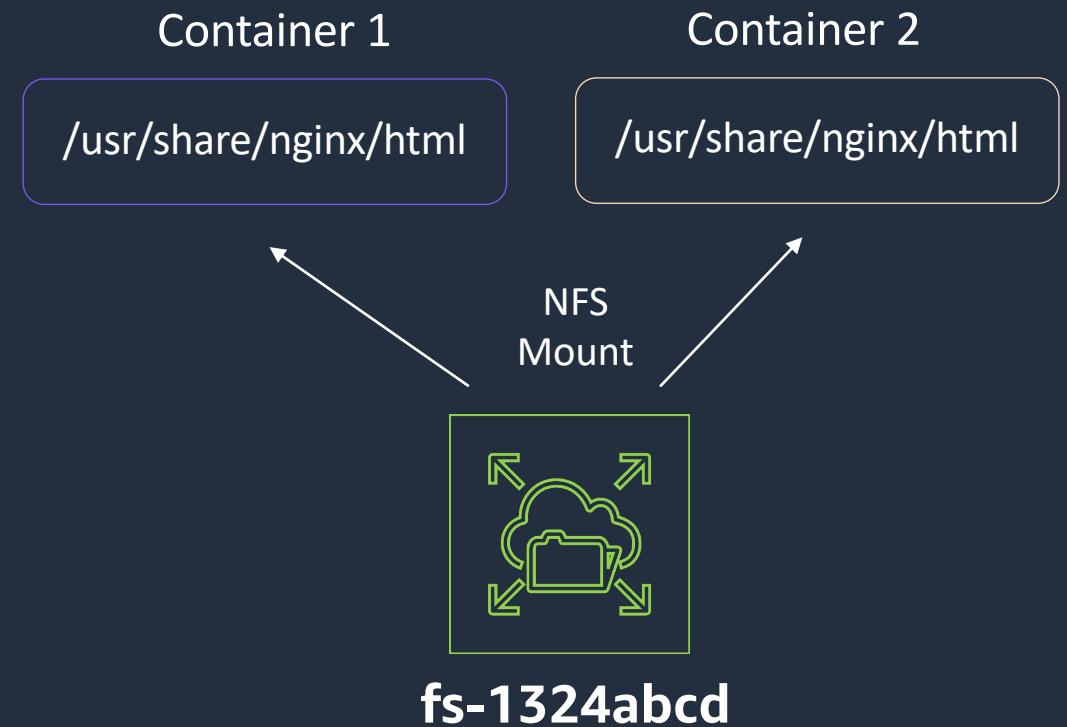
Layer storage - ephemeral

- Container images are composed of layers - topmost layer is the writable layer to capture file changes made by the running container
- 20 GB layer storage available per task across all containers, including image layers
- Writes are not visible across containers
- Ephemeral storage is not available after the task stops



EFS storage

- Need persistence beyond the task lifecycle?
- Fargate platform version 1.4 supports mounting EFS file systems to containers in your task.
- Configure via NFS mounts in task definition
 - Can mount at different container paths



Security

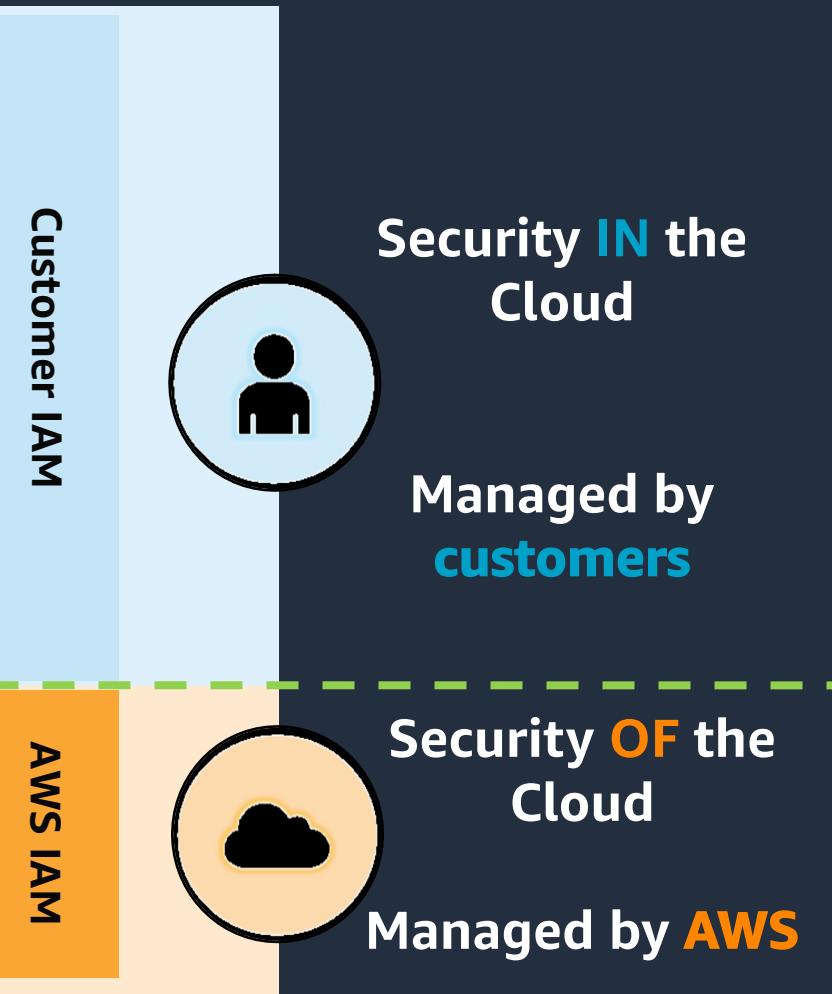
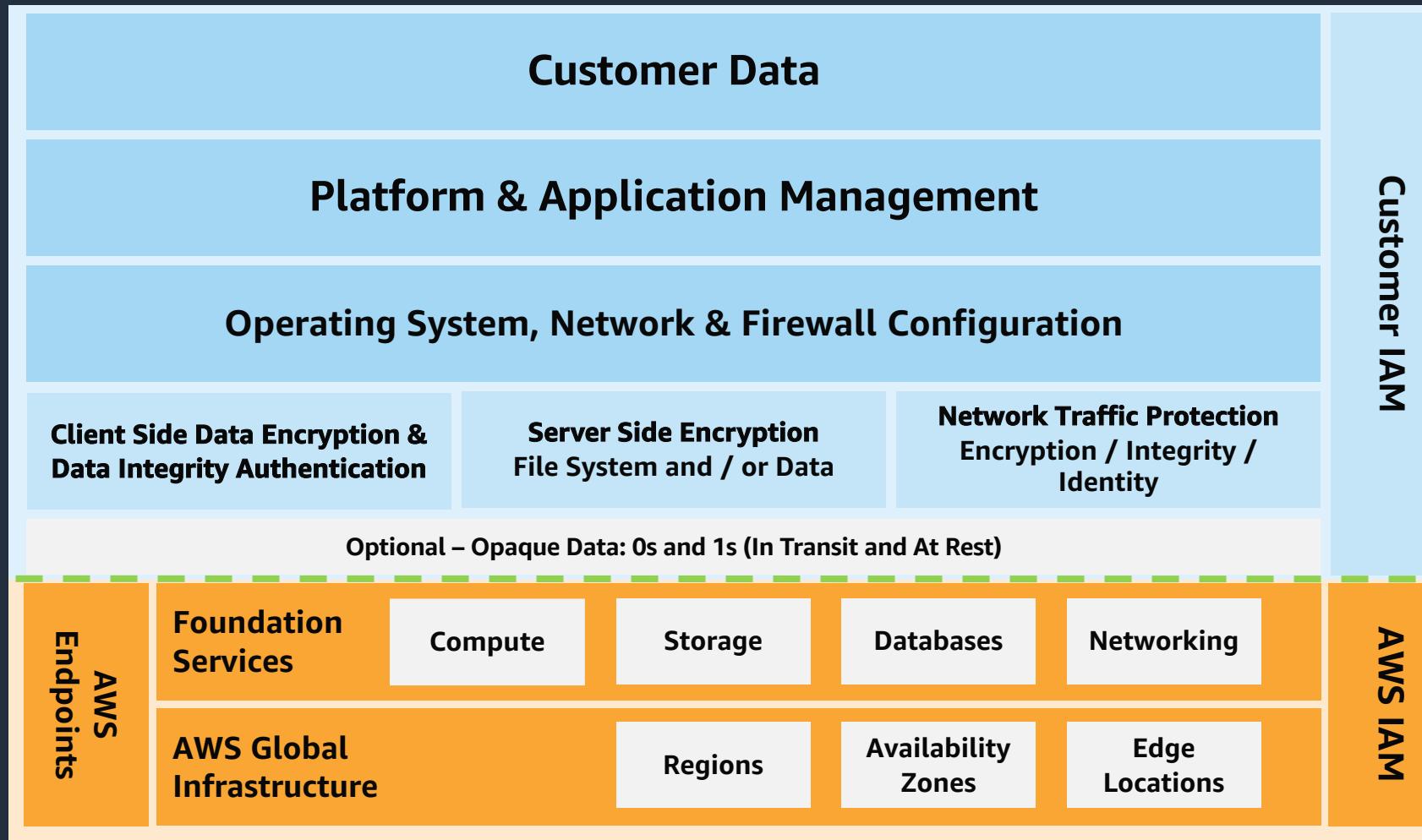


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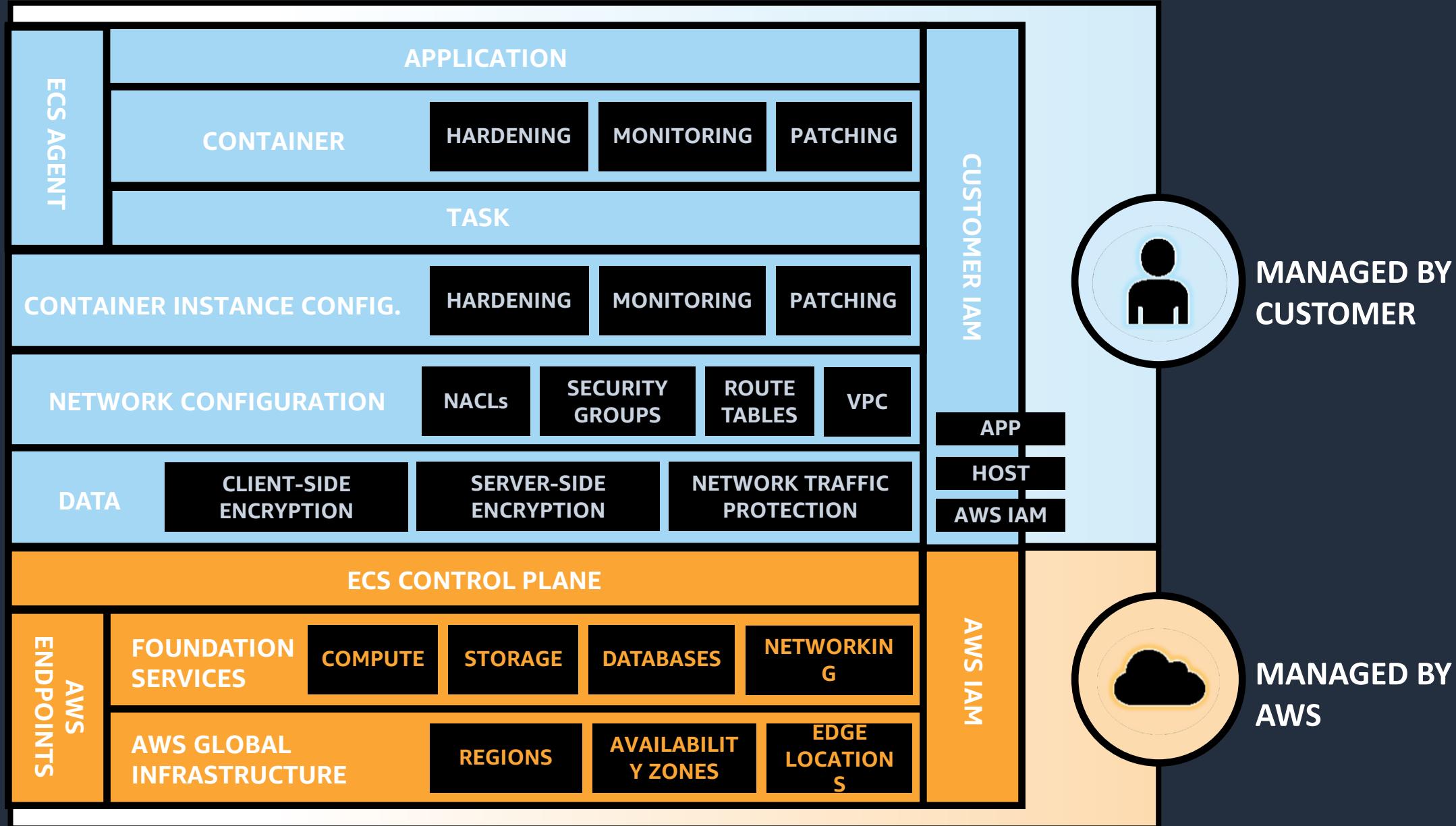


Working together

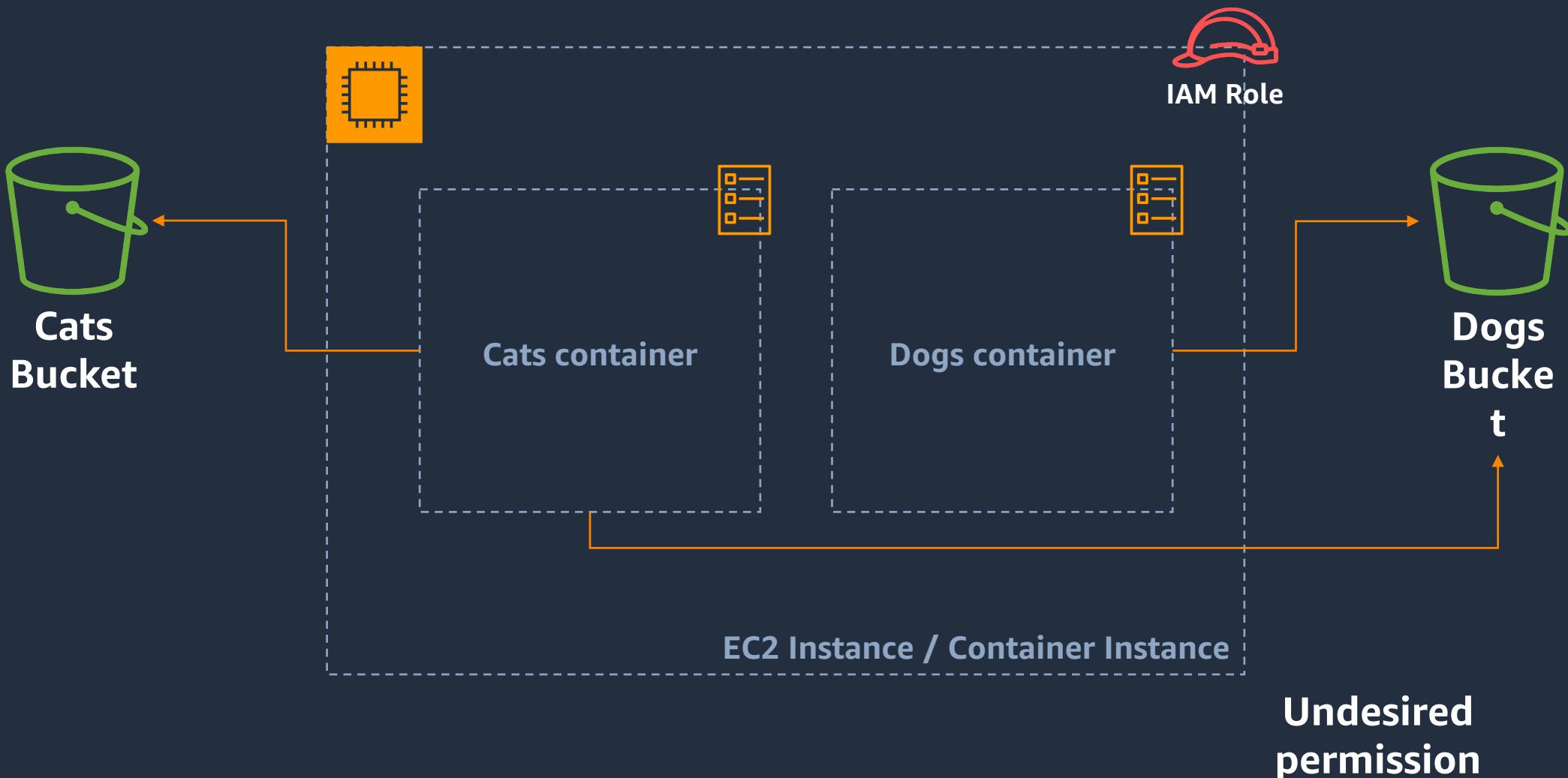
Security in the Cloud is a Shared Responsibility



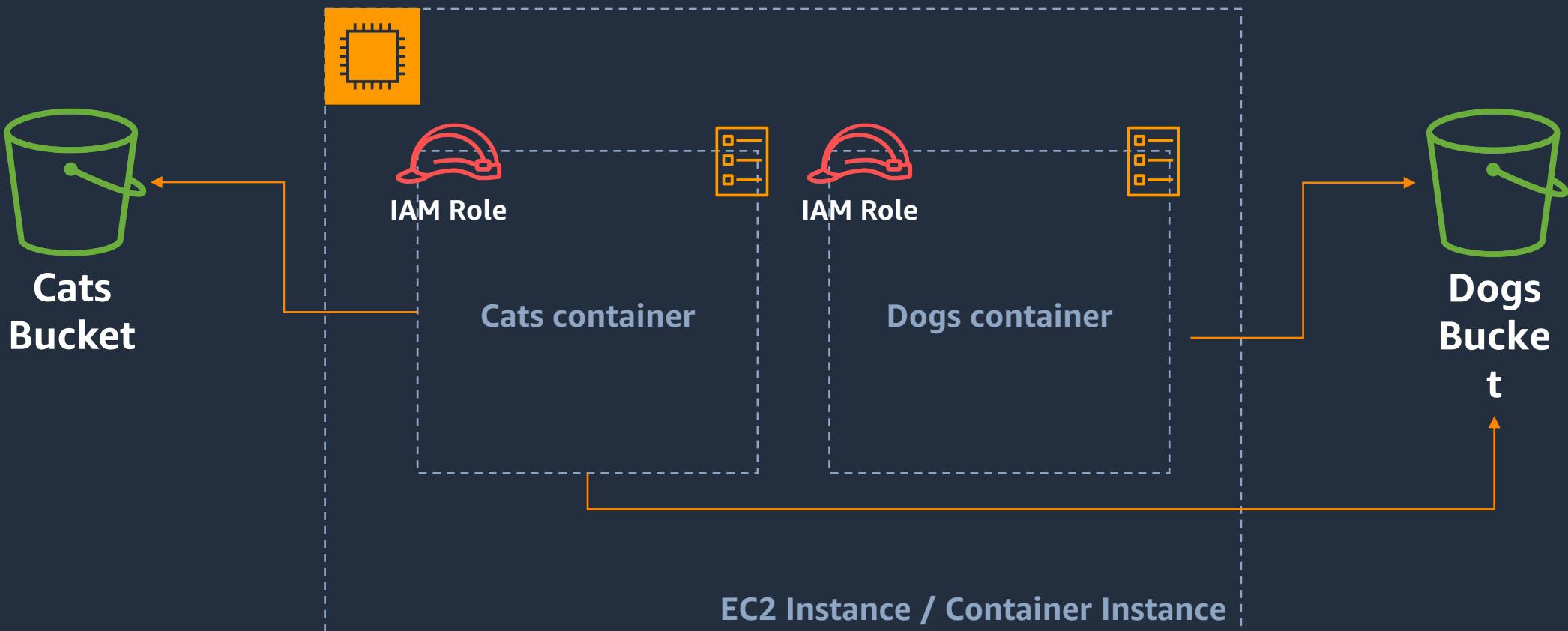
Shared responsibility model: Amazon ECS for EC2



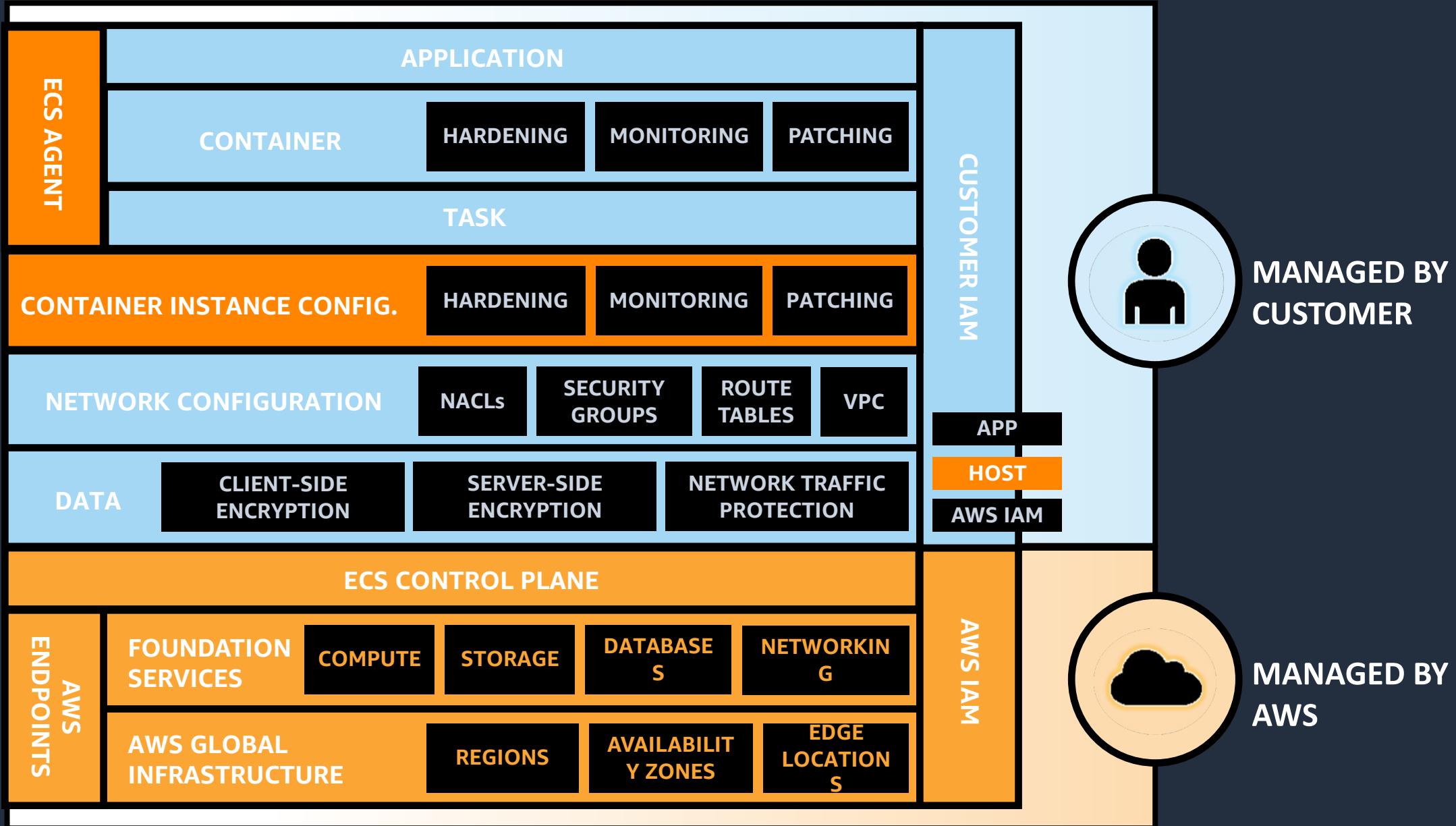
Security: IAM Roles for Tasks



Security: IAM Roles for Tasks



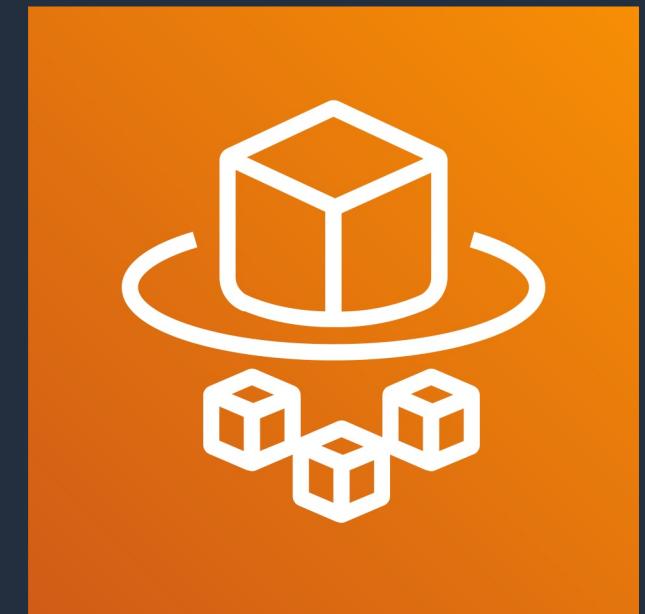
Shared responsibility model: Amazon ECS for AWS Fargate



Security: Benefits of Fargate

We do more, you do less.

- Patching (OS, Docker, ECS Agent, etc.)
- Task isolation (via Clusters)
- No --privileged mode for containers
- Requires awsvpc network mode so there is an ENI and SG per Task
- Simple secure and auditable way to run commands in container – ECS Exec



Cost optimisation

- Introduction to AWS Fargate



Fargate Purchase Options

Fargate

Pay for containers **per-second** with no long-term commitment



Capacity needs can change rapidly

Compute Savings Plan New

Make a 1 or 3-year commitment and receive a **significant discount**



Baseline compute needs known in advance

Fargate Spot New

Spare capacity with **savings up to 70% off** Fargate standard pricing



Fault-tolerant, flexible workloads

Amazon Fargate Spot



Spare compute Capacity

Save up to **70% over standard Fargate**

**Can be *reclaimed*
(with two minute warning)**

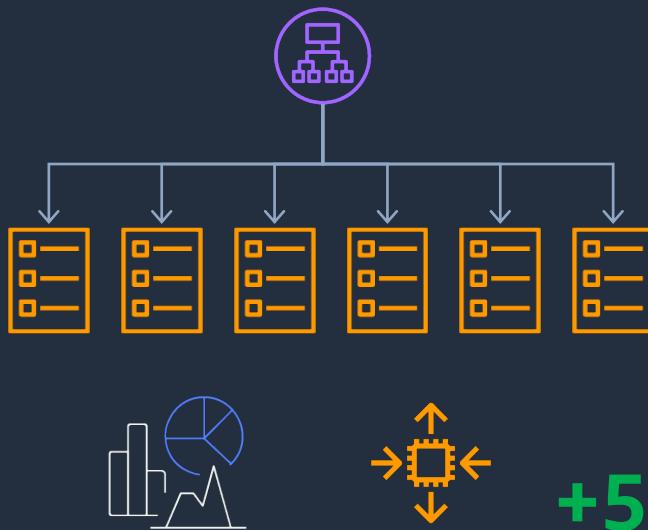
Automatic diversification

Fargate and Fargate Spot Capacity Provider Mix

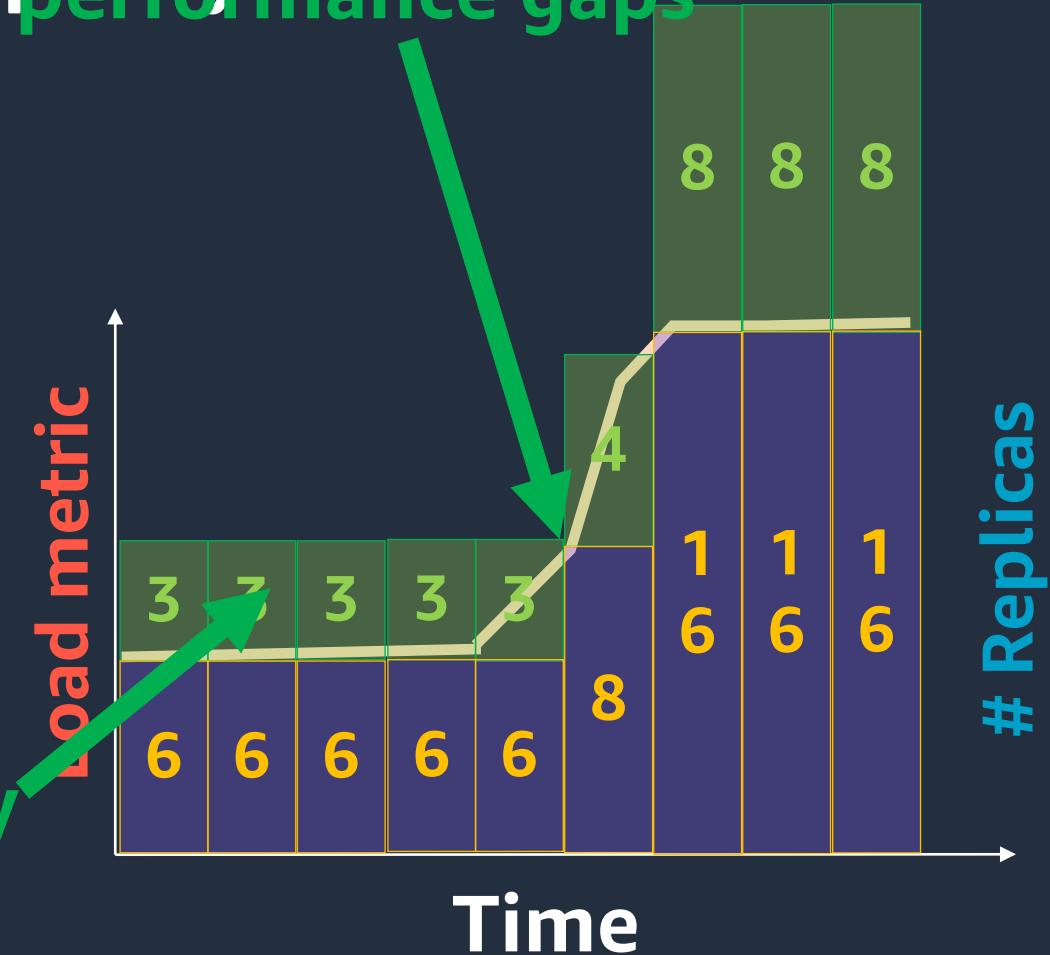
Overprovision by 50%:

Reduce metric target value by 1/3

Run 2/3 On-Demand, 1/3 on Spot



+50% capacity
for +5-10%
cost



Questions?



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Break



Lab:

Containerizing the Mythical Mysfits monolith

MYTHICAL MISFITS

Good/Evil ▾

Lawful/Chaotic ▾

[View All](#)

Hasla



[View Profile](#)

Species: Haetae
Good/Evil: Good
Lawful/Chaotic: Neutral



Rujin



[View Profile](#)

Species: Troll
Good/Evil: Evil
Lawful/Chaotic: Chaotic



Atlantis



[View Profile](#)

Species: Mandrake
Good/Evil: Neutral
Lawful/Chaotic: Neutral



Gretta

Gary

Twilight Glitter

Agenda - Afternoon

Time	Topic	Speaker(s)
13:00 – 14:30	Lab: AWS Container Service	
14:30 – 15:00	Introducing AWS Service Screener	Tanisorn Jansamret
16:00 – 16:15	recap: Containerize on AWS	Patiphan Pinkeaw
16:15 – 16:30	AWS Learning Resources & Conclusion	

Lab:
go.jansat.co/con

**Wifi: Lancaster@VIPConference
PW: lancaster1**





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Login with your Amazon.com retail account

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jansat@amazon.com

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Send passcode

[Get help signing in](#)

One-time email passcode

We sent a passcode to jansat@amazon.com. You should receive it within 5 minutes.

Passcode (9-digit) [Resend passcode](#)

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Description

Container Immersion Day for AWS Builder Academy

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Container Immersion Day



Event ends in 2 days 23 hours 47 minutes.



AWS Containers Immersion Day

▶ AWS Containers Immersion Day
Workshop Setup

▶ Introduction to Containers and
Docker

▶ Welcome to Mythical Mysfits

▶ Amazon ECS and AWS Fargate

▶ Amazon EKS

▶ Release Notes

AWS account access

[Open AWS console](#)
(us-east-1)

[Get AWS CLI credentials](#)

[Exit event](#)

[Event dashboard](#) > AWS Containers Immersion Day

Container Immersion Day

Event information

Start time

4/27/2023 11:28 AM

Duration

72 hours

Accessible regions

us-east-1

Description

Container Immersion Day for AWS Builder Academy

Workshop

[Get started >](#)

Title

Containers Immersion Day

Complexity level

200

AWS services

Amazon Elastic Container Registry (Amazon ECR), Amazon Elastic Container Service (Amazon ECS)

Topics

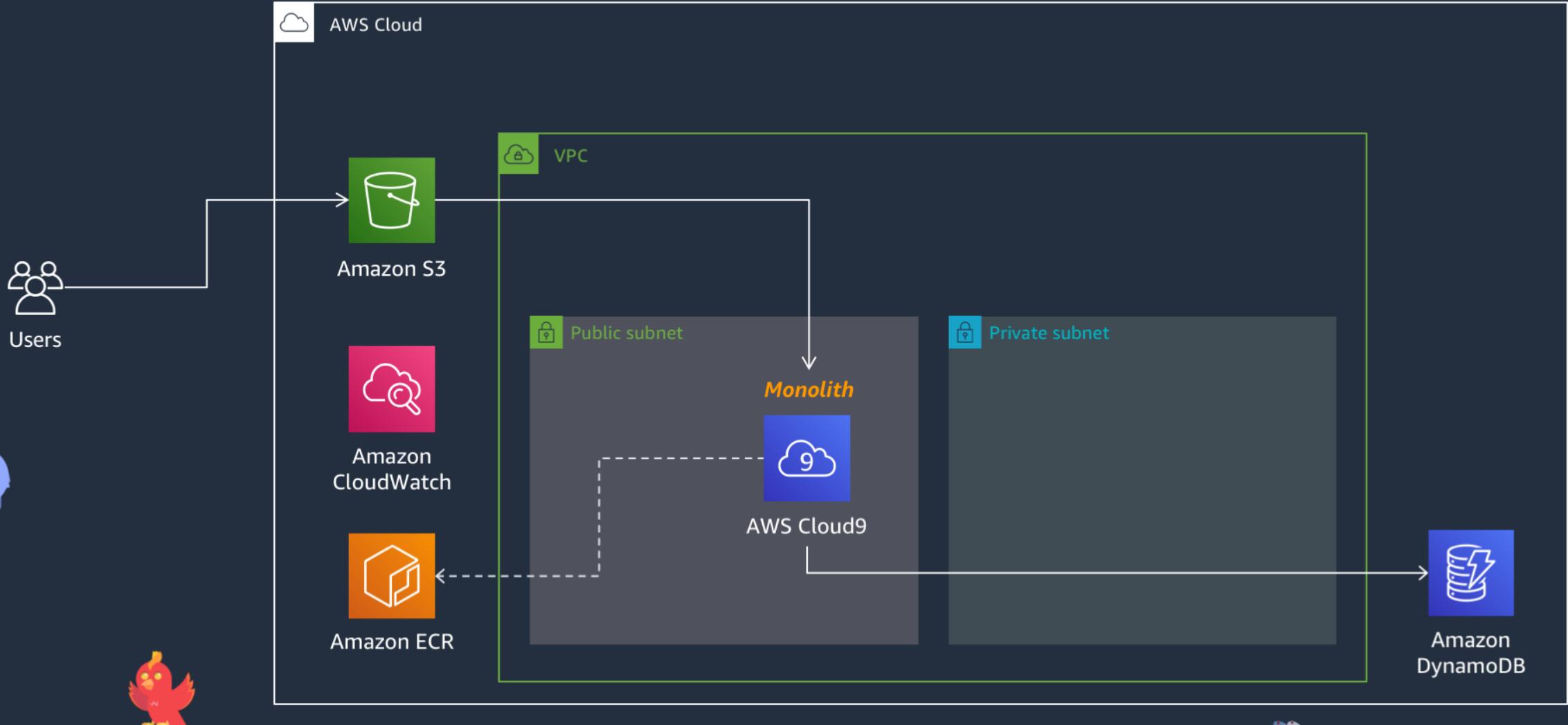
Containers, Modernization

▼ AWS account access

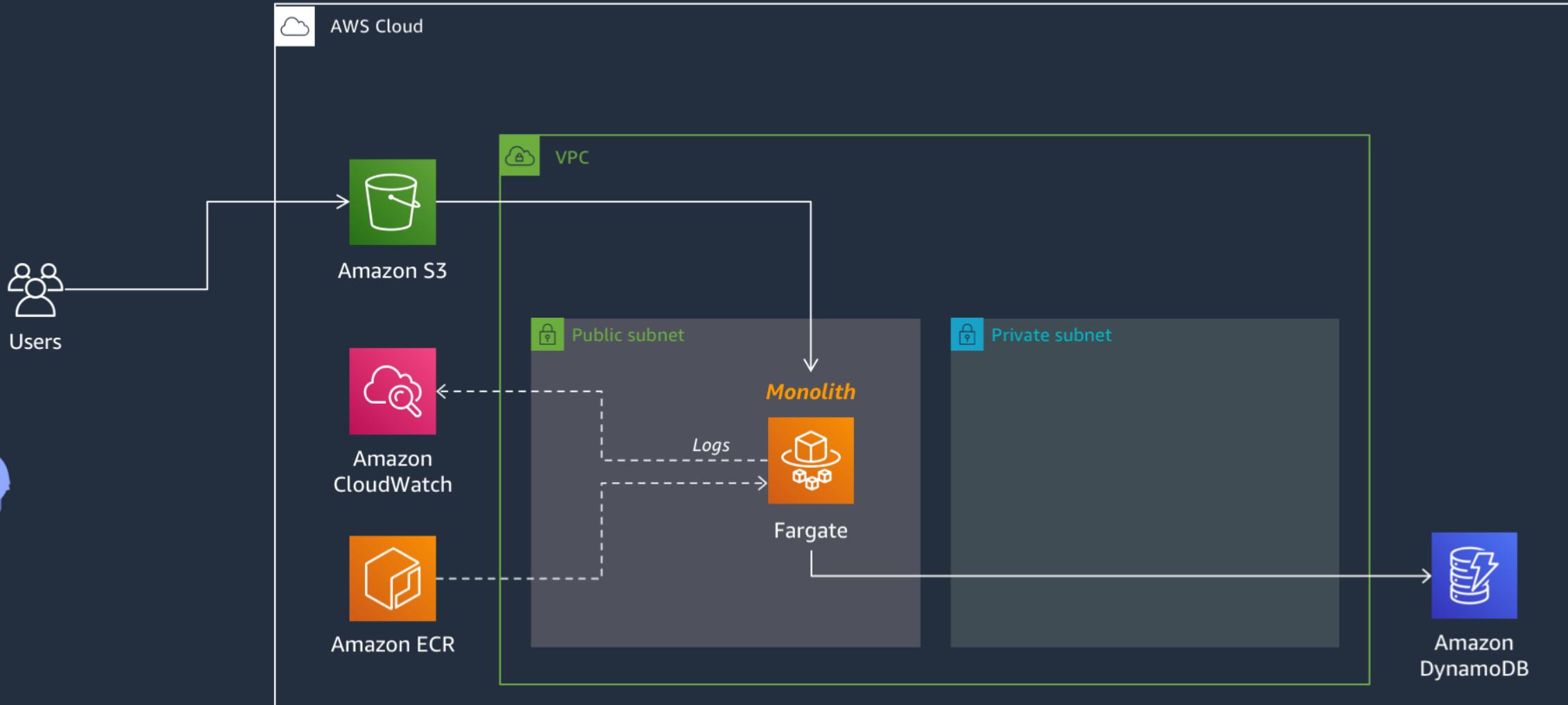
[Open AWS console
\(us-east-1\)](#) 

[Get AWS CLI credentials](#)

Lab 1: Build and test monolith container image

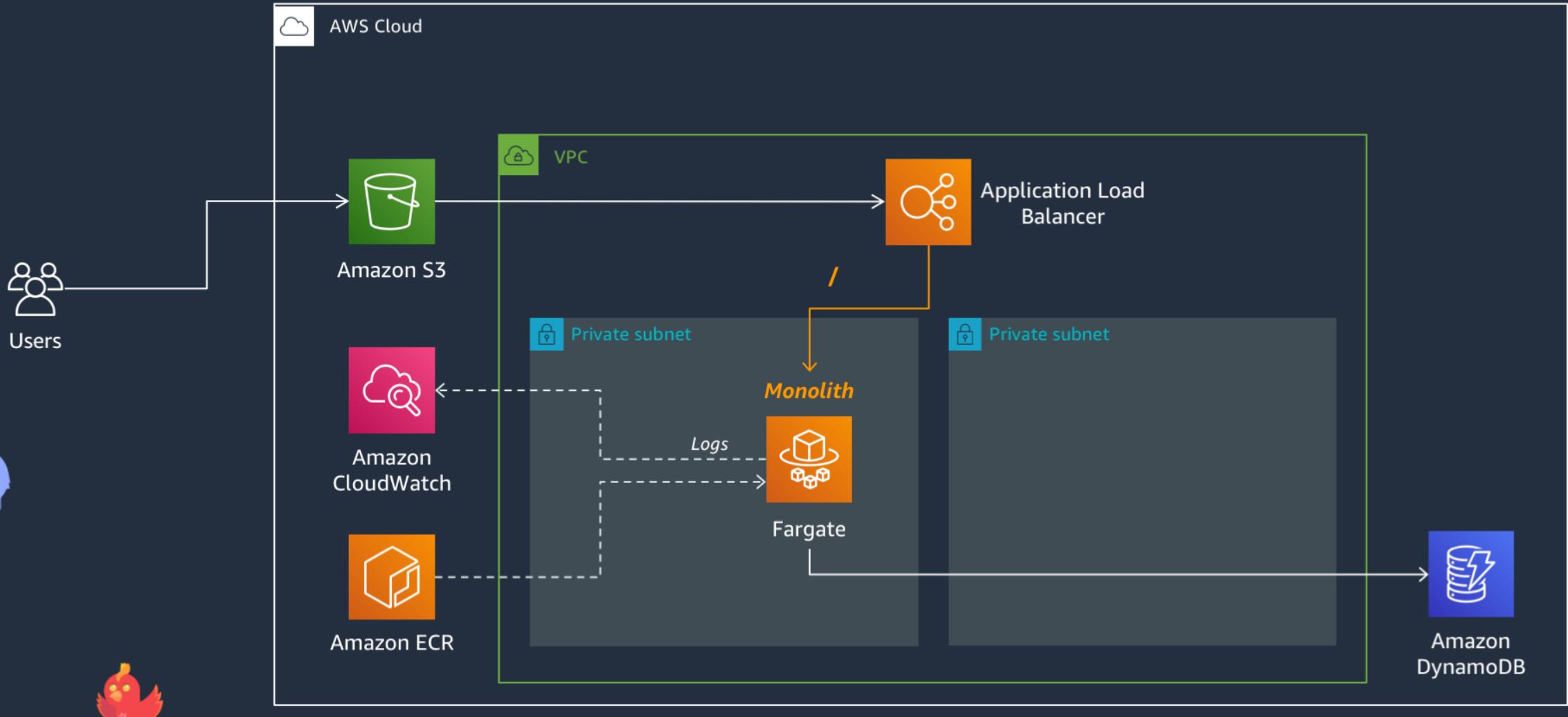


Lab 2: Deploy monolith with Fargate

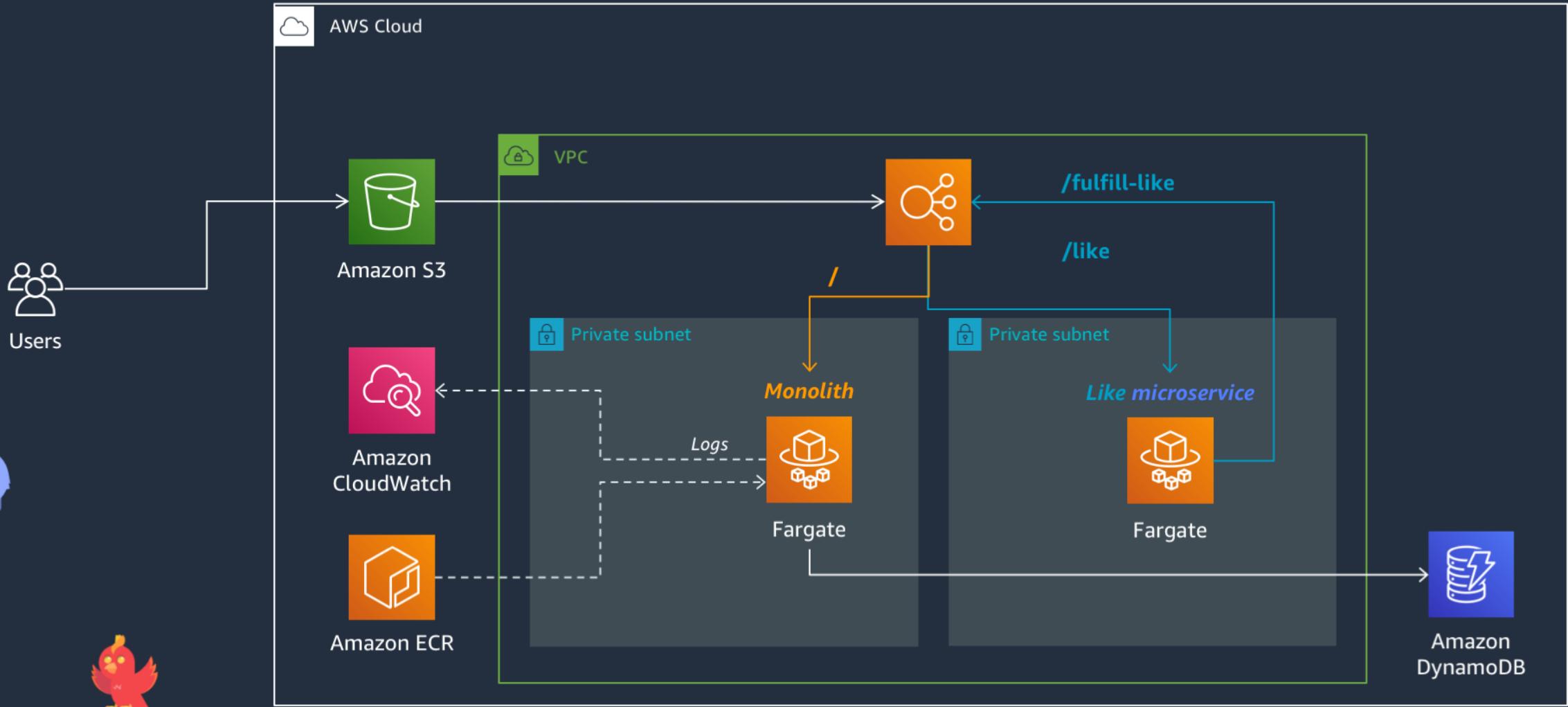




Lab 3: Scale with an Application Load Balancer



Lab 4: Deploy "like" microservice





Service Screener

Automated Well Architected Reviews

Tanisorn Jansamret (Kag)

Associate Solutions Architect
Amazon Web Services (Thailand)

What is Service Screener?

Service Screener is a tool that runs automated checks on AWS environments and provides recommendations based on the AWS Well Architected Framework.

Demo



Checks as of 17-Mar-2023

Service Rules Pillar Count:						
Service	0	S	R	P	C	TOTAL
ec21010441139
efs	/11	/13
guardduty	/	/	/	/	/4
iam413	/	/	/17
lambda57	/1	/13
opensearch36715435
rds9489	/30
s3	/72	/211
<hr/>						
Total3148222918152
Mean	...3.886	...2.75	...3.63	...2.2519

Why does it exist?

- Time Consuming
 - Looking through the questionnaire (2-4 hours / pillars)
 - Perform fixes (2 weeks – 8 weeks)
- Lack of skills to perform fixes
- Unsure of the impacts on the changes

New Features in Q1!

- Host report in S3
- Excel Extraction Report
- JSON Output
- Serverless Services (Lambda)



Committed Features

- Organization Level Scan
- Cross Account Scan
- At least 5 more core services coverage
- Integrate with WAT
- "HowTo" guides
 - Integration to Quicksight
 - Part of CI/CD pipeline
- EventEngine Workshop & Workshop studio





reap: Containerize on AWS

Tanisorn Jansamret (Kag)
Associate Solutions Architect
Amazon Web Services (Thailand)

Summary and resources

AWS Whitepapers and Guides

Expand your knowledge of the cloud with AWS technical content authored by AWS and the AWS community, including technical whitepapers, technical guides, reference material, and reference architecture diagrams

- Overview of Amazon Web Services
- Introduction to AWS Security
- Understanding Your Application Readiness when Migrating to AWS
- Web Application Hosting in the AWS Cloud: Best Practices
- Overview of Deployment Options on AWS

<https://aws.amazon.com/whitepapers>



Best Practices for Security, Identity, & Compliance

AWS Architecture Center

The screenshot shows the AWS Architecture Center homepage. At the top, there's a navigation bar with links for Contact Us, Support, English, My Account, Sign In to the Console, Products, Solutions, Pricing, Documentation, Learn, Partner Network, AWS Marketplace, Customer Enablement, Events, Explore More, and a search icon. Below the navigation is a secondary navigation bar with links for AWS Architecture Center, Technology Categories, Video Series, AWS Well-Architected, Libraries, and More Resources.

Best Practices for Security, Identity, & Compliance

Featured Content

Identity & Access Management
Self-guided learning materials to help you understand identity security.
• Documentation: [Security Best Practices in IAM](#)

Detection
Information about monitoring services that can help you detect and eliminate suspicious activity.
• Documentation: [AWS Security Hub User Guide](#)

Infrastructure Protection
Holistic guidelines and trainings to help you prevent attacks and protect your business.
• Whitepaper: [AWS Best Practices for DDoS](#)

A day in the life of a security professional

Protecting secrets, keys, and data:

Revitalize your security with the AWS Security Reference Architecture

Filter by: Clear all filters ▾ Content Type: Patterns, Reference Architecture Diagrams, AWS Solutions, Guidance, Technical Guides, Whitepapers

Did this page help you? Yes, No, Feedback

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1-6 (318) PATTERN UPDATED, GUIDE NEW, PATTERN UPDATED



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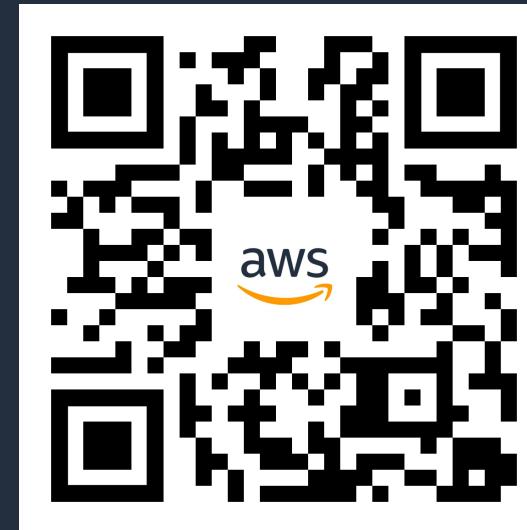
AWS Resources in one page!



**AWS
Whitepapers
and Guides**
go.aws/3TvXGjk



**AWS Well-
Architected**
go.aws/3CG0nZ4



**AWS Quick
Starts**
go.aws/3MEETQI



**AWS Solutions
Library**
go.aws/3yNqETY

AWS Thailand Local Blog





aws

ผลิตภัณฑ์ โซลูชัน ราคา เอกสารประจำอุปกรณ์ เรียนรู้ เครื่องข่ายคู่ก้า AWS Marketplace การพัฒนาอย่างต่อเนื่อง กิจกรรม สำรวจเพิ่มเติม ลงชื่อเข้าใช้ สร้างบัญชี AWS

หน้าหลักของบล็อก ชื่อ ▾

AWS Thai Blog

Category: Containers



10K+
Helm Releases



100+
Consumer Environments



> 11K+
pods
Managed with Orkes

ขยายว่าบันทึก **pod จากรันนิ่งอยู่แล้วที่มีบน Amazon EKS คลัสเตอร์**
by Wiriyang Pipatsakulroj | on 03 MAR 2023 | in [Amazon Elastic Kubernetes Service](#), [Containers](#), [Customer Solutions](#) | [Permalink](#) | [Share](#)

กับวิธีการของ OLX Autos มาเรียนรู้ระบบการนำทางเก็บคีย์ที่ช่วยให้สามารถรัน **pod** เป็นว่าบันทึกที่มีอยู่แล้วด้วย Amazon EKS เพียงคลิกเดียวได้

**วิธีการ Scale และเพลิดเพลินด้วย ALB บน EKS (โดยไม่ผลกระทบต่อ Traffic)**
by Patis Priyaphaphan | on 28 FEB 2023 | in [Amazon Elastic Container Registry](#), [Amazon Elastic Kubernetes Service](#), [Amazon RDS](#), [Containers](#) | [Permalink](#) | [Share](#)

เพื่อให้รองรับกับความต้องการของผู้ใช้งาน แอปพลิเคชันที่เป็น Dynamic HTTP-based จำเป็นต้องมีการ Scale Kubernetes pods อย่างทันทีเมื่อส่วนตัวหรือฟื้นฟูแอปพลิเคชันที่เปิดใช้งานผ่าน Kubernetes ingress AWS Application Load Balancer (ALB) จะหัวขอจาก Traffic ที่เข้ามาโดยอัตโนมัติไปที่ Replica ให้หนึ่งที่ Scale สำหรับเพลิดเพลิน **Scale-down** เมื่อจากความต้องการใช้งานลดลงแล้ว ผู้ใช้งานเวลาได้รับผลลัพธ์ในคราวเดียว ด้วยการ Scale pods เหล่านี้ ในการควบคุมนี้ เราจะอธิบายวิธีการสร้างสถาปัตยกรรมที่ทำให้แบบฟอร์มอัตโนมัติ **Scale-down** ได้อย่างรอบรับ และช่วยลดผลกระทบกับบันทึกที่มีอยู่แล้ว

AWS Week in Review AWS Week in Review – 21 พฤษภาคม 2565



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AWS User Group (Thailand)

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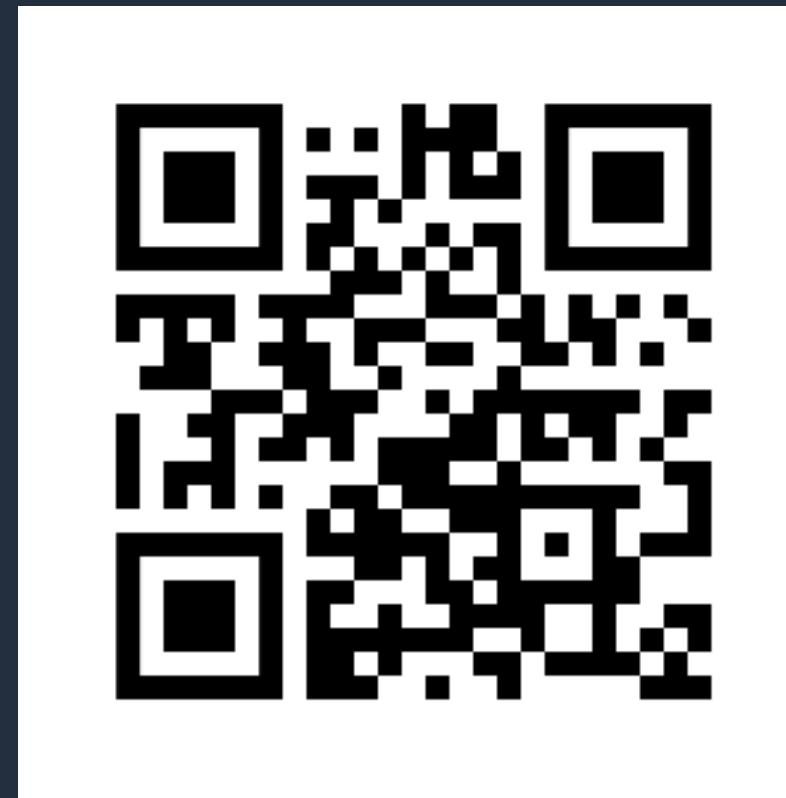
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Thank you!