





Global
Infrastructure

Cloud
Computing
Models

Management
Console

SDK & CLI
Access

aws.amazon.com

Getting
Started

- Data centers distributed Worldwide
- On-demand delivery of IT resources
- Shared and dedicated resources
- Benefits:
 - economies of scale
 - accounts isolated at the hypervisor level
 - pay-as-you-go pricing
 - no up front cost
 - reduced maintenance & admin costs
 - organised into product categories (compute, storage, database, machine learning etc)



AWS Global Infrastructure

Ground Station

Project Kuiper

Regions

Availability Zones

Local Zones

Edge Locations

Wavelength





Geographic Regions

US East:
N. Virginia,
Ohio

US West:
N. California,
Oregon

Asia Pacific:
Mumbai,
Seoul,
Singapore,
Sydney,
Tokyo,
Osaka-Local

Europe:
Frankfurt,
Ireland,
London,
Paris

China:
Beijing,
Ningxia

Canada:
Central

South America:
São Paulo

AWS GovCloud:
US-West
Secret Region

Choose a region to:
• optimise latency,
• minimise costs, or
• address regulatory requirements

Availability Zones

- Each AWS Region has multiple physically isolated Availability Zones.
- Connected to each other with fast, private fiber-optic networking.



Local Zones

Close to large population, industry, and IT centers.

Are an extension of an AWS Region



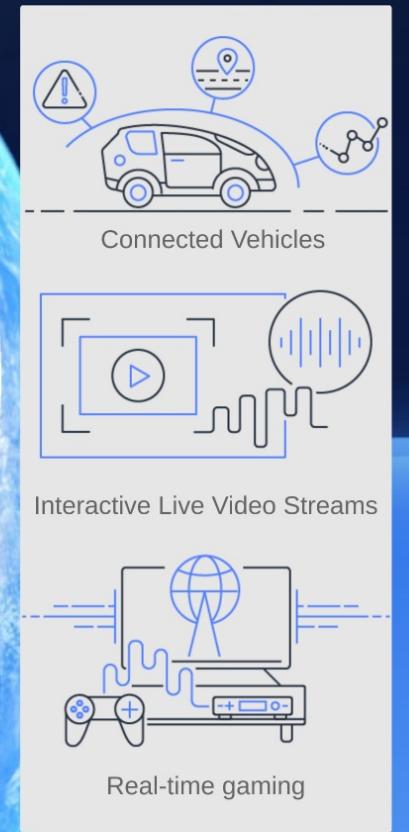
Edge Locations

CloudFront CDN cached content at edge locations for high performance delivery of content.
Also provides DDOS protection.



AWS Wavelength

AWS Wavelength allows parts of your application to use **AWS compute and storage** services that are embedded within communications service providers' (CSP) datacenters at the **edge** of the **5G network**.



Ground Station

Fully managed service that enables customers to easily command, control, and downlink data from **satellites**.

Located **within** the AWS Global Infrastructure footprint
Contacts (reservations) are scheduled for an antenna to communicate with a satellite.



Project Kuiper

- Kuiper Systems LLC is a subsidiary of Amazon.
- Proposed constellation network of **Low Earth Orbit satellites**.
- Provide low-latency, high-speed broadband connectivity to unserved and underserved communities around the world.
- Will **extend low latency access to the AWS cloud** from all areas of the World.

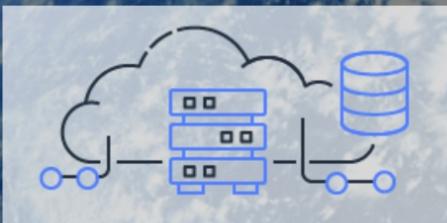
amazon | project kuiper

Project Kuiper customer terminal antenna

Type	Single Aperture Phased Array Antenna
Max. Width	30 cm (12 in)
Max. Throughput	400 Mbps
Frequency	Ka-band
Uplink	28.5-29.1 GHz
Downlink	17.7-19.3 GHz

Total area: 730cm² (111in²)
3x Smaller
30cm (12in)
Total diameter
Rx/Tx
amazon | project kuiper

Cloud Computing Models



Infrastructure as a Service (IaaS):
Contains the basic building blocks for cloud IT:
Eg. VPC, EC2, EBS



Platform as a Service (PaaS):
AWS manages the underlying infrastructure
(usually hardware and operating systems)
Eg. RDS, EMR, ElasticSearch



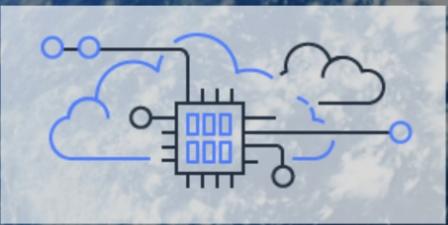
Software as a Service (SaaS):
Completed product that is run and managed by the service provider. Mostly refers to end-user applications:
Eg. Web-based email, Office 365, Salesforce.com

Serverless Computing



- Allows you to build and run applications and services without thinking about servers.
- Also referred to as **Function-as-a-Service (FaaS)** or **Abstracted** services.
- Examples:
 - Amazon Simple Storage Service (S3)
 - AWS Lambda
 - Amazon DynamoDB
 - Amazon SNS

Cloud Computing Deployment Models



Cloud:

Fully deployed in the cloud and all parts of the application run in the cloud.



Hybrid:

A way to connect infrastructure and applications between cloud-based resources and existing resources that are not located in the cloud.
Run AWS infrastructure and services on premises with AWS Outposts

On-premise:

Deploying resources on-premises, using virtualization and resource management tools, is sometimes called "private cloud".

AWS Management Console

- Web-based user interface to AWS
- Requires an AWS account
- Monitor costs
- AWS Console Mobile App

The screenshot shows the AWS Management Console homepage. At the top, there's a navigation bar with links for Services, Resource Groups, Notifications (pcoady @ backspace-academy), N. Virginia, and Support. Below the navigation bar is a search bar with the placeholder "Find a service by name or feature (for example, EC2, S3 or VM, storage)".
The main content area is divided into several sections:

- AWS services**: A grid of service icons and names, including Compute (EC2, Lightsail, Lambda, EKS, Batch, Elastic Beanstalk), Storage (S3), Management Tools (CloudWatch, AWS Auto Scaling, CloudFormation, CloudTrail, Config, OpsWorks, Service Catalog, Systems Manager, Trusted Advisor, Managed Services), Mobile Services (Mobile Hub, AWS AppSync, Device Farm, Mobile Analytics), AR & VR (Amazon Sumerian), and Application (AWS Lambda).- Helpful tips**: Two cards:
 - Manage your costs**: Describes using AWS Budgets to monitor costs. [Start now](#).
 - Create an organization**: Describes using AWS Organizations for policy-based management of multiple AWS accounts. [Start now](#).
- Explore AWS**: A card with the text "Machine Learning with Amazon SageMaker".



SDK & CLI Access

Software Development Kits

- Create applications that use AWS services.
- SDKs for Javascript, NodeJS, Java, Python, .NET, PHP, Ruby, Go, C++
- Mobile SDKs for Android, iOS, React Native, Unity, Xamarin
- Application Programming Interface enables access to AWS using http calls.

Command Line Interface

- Control multiple AWS services from the command line and automate them through scripts.





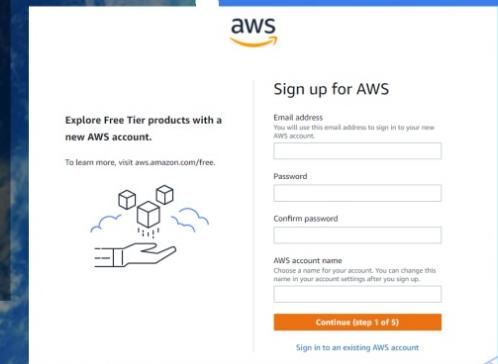
A screenshot of the AWS homepage. At the top, there's a navigation bar with links for Contact Us, Support, English, My Account, and Create an AWS Account. Below that is a main banner with the heading "Start Building on AWS Today" and a subtext about building sophisticated applications with increased flexibility, scalability, and reliability. It includes a "Get Started for Free" button and three call-to-action cards: "Sign up For an AWS Account", "Enable Remote Work & Learning", and "Launch Your First Application in Minutes". Below the banner is a section titled "Explore Our Solutions" with a "By Industry" heading. It shows four industry-specific sections: Advertising & Marketing, Financial Services, Game Tech, and Media & Entertainment, each with a brief description and a "Learn More" link.

- aws.amazon.com/certification
- docs.aws.amazon.com
- aws.amazon.com/whitepapers
- aws.amazon.com/products
- aws.amazon.com/new



Getting Started with AWS

- Go to aws.amazon.com
- Click on "Create an AWS Account"
- Complete the sign up process
- Click on "My Account"
- Select "AWS Management Console"

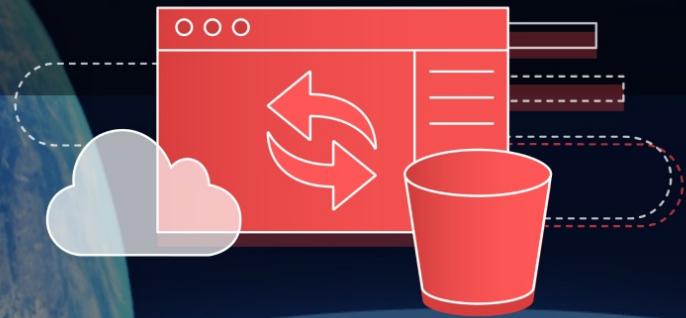


The screenshot shows the AWS sign-up form. At the top, it says "Sign up for AWS". Below that, there's a section for "Explore Free Tier products with a new AWS account." It includes a link to "To learn more, visit aws.amazon.com/free". The main form has fields for "Email address" (with a note: "You will use this email address to sign in to your new AWS account."), "Password", and "Confirm password". There's also a field for "AWS account name" with the note: "Choose a name for your account. You can change this name in your account settings after you sign up." At the bottom of the form are "Continue (Step 1 of 5)" and "Sign in to an existing AWS account" buttons.





AWS Storage Services



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AWS Storage Services



Simple Storage
Service (S3)



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AWS Storage Services



Simple Storage
Service (S3)



Glacier



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AWS Storage Services



Simple Storage
Service (S3)



Glacier



Elastic Block
Store (EBS)



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AWS Storage Services



Simple Storage
Service (S3)



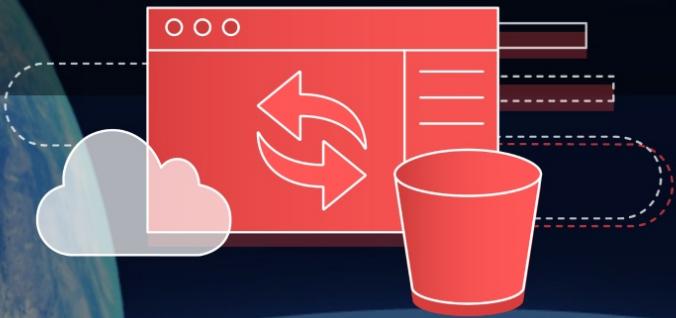
Glacier



Elastic Block
Store (EBS)



Elastic File
System (EFS)



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AWS Storage Services



Simple Storage
Service (S3)



Glacier



Elastic Block
Store (EBS)



Elastic File
System (EFS)



Storage
Gateway



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AWS Storage Services



Simple Storage
Service (S3)



Glacier



Elastic Block
Store (EBS)



Elastic File
System (EFS)



Storage
Gateway



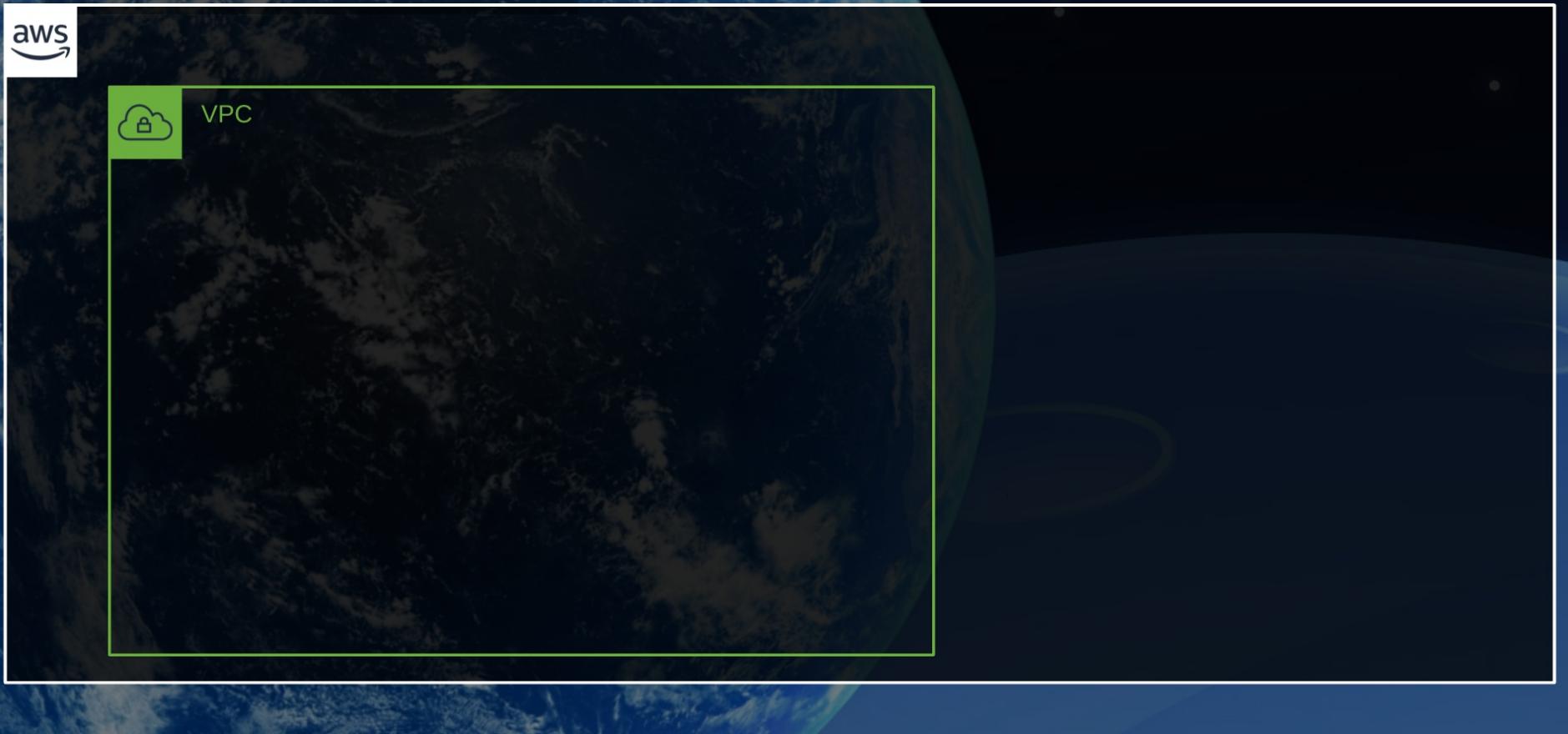
Snowball



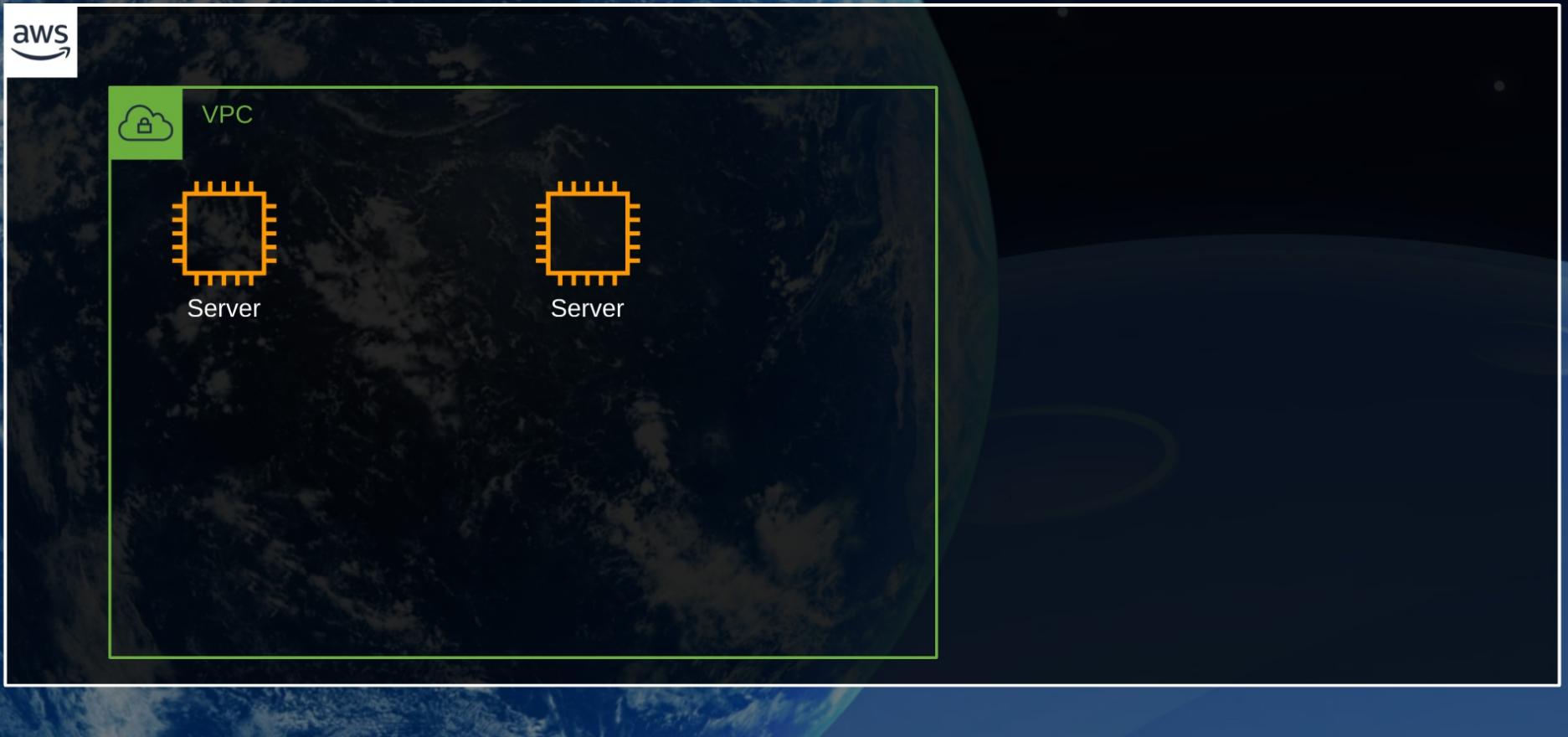
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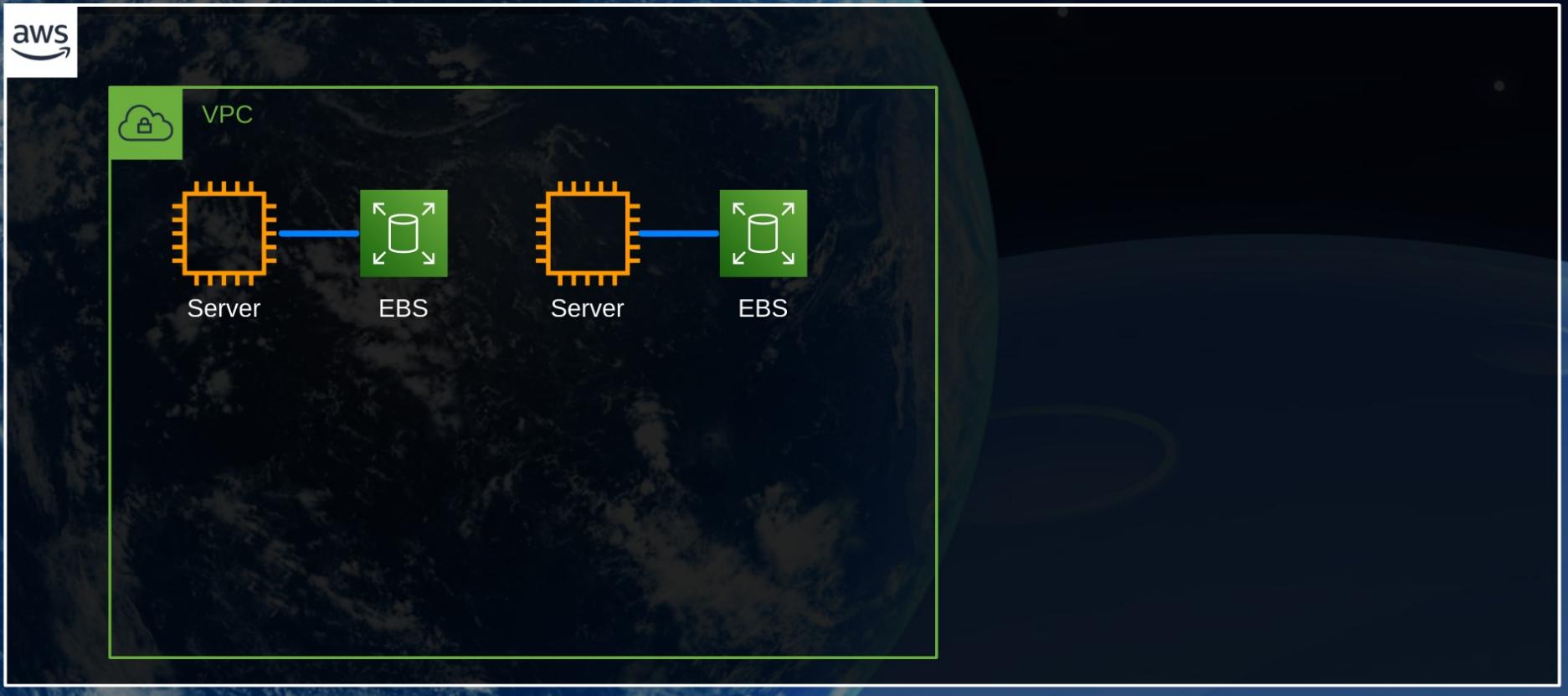
Storage Example



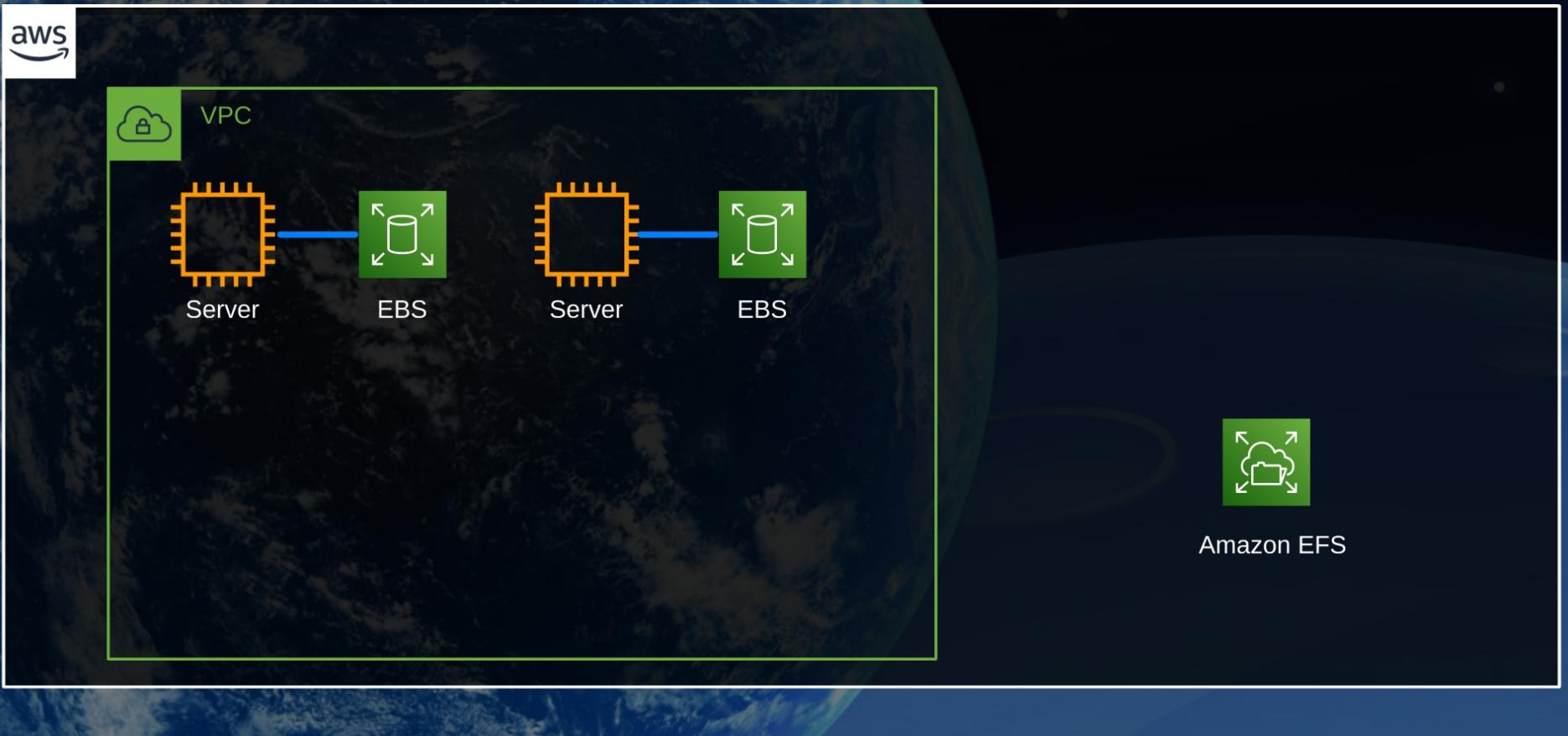
Storage Example



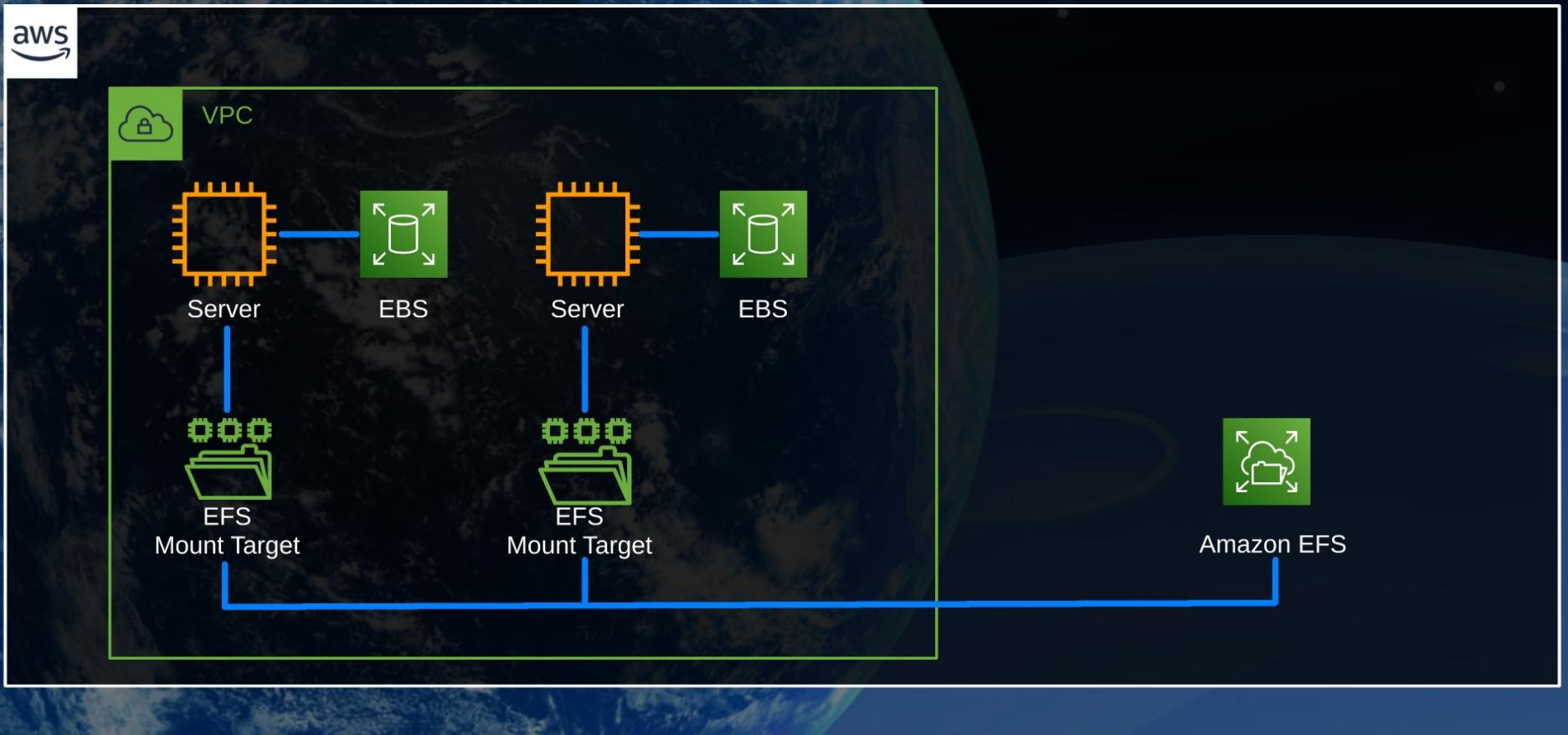
Storage Example



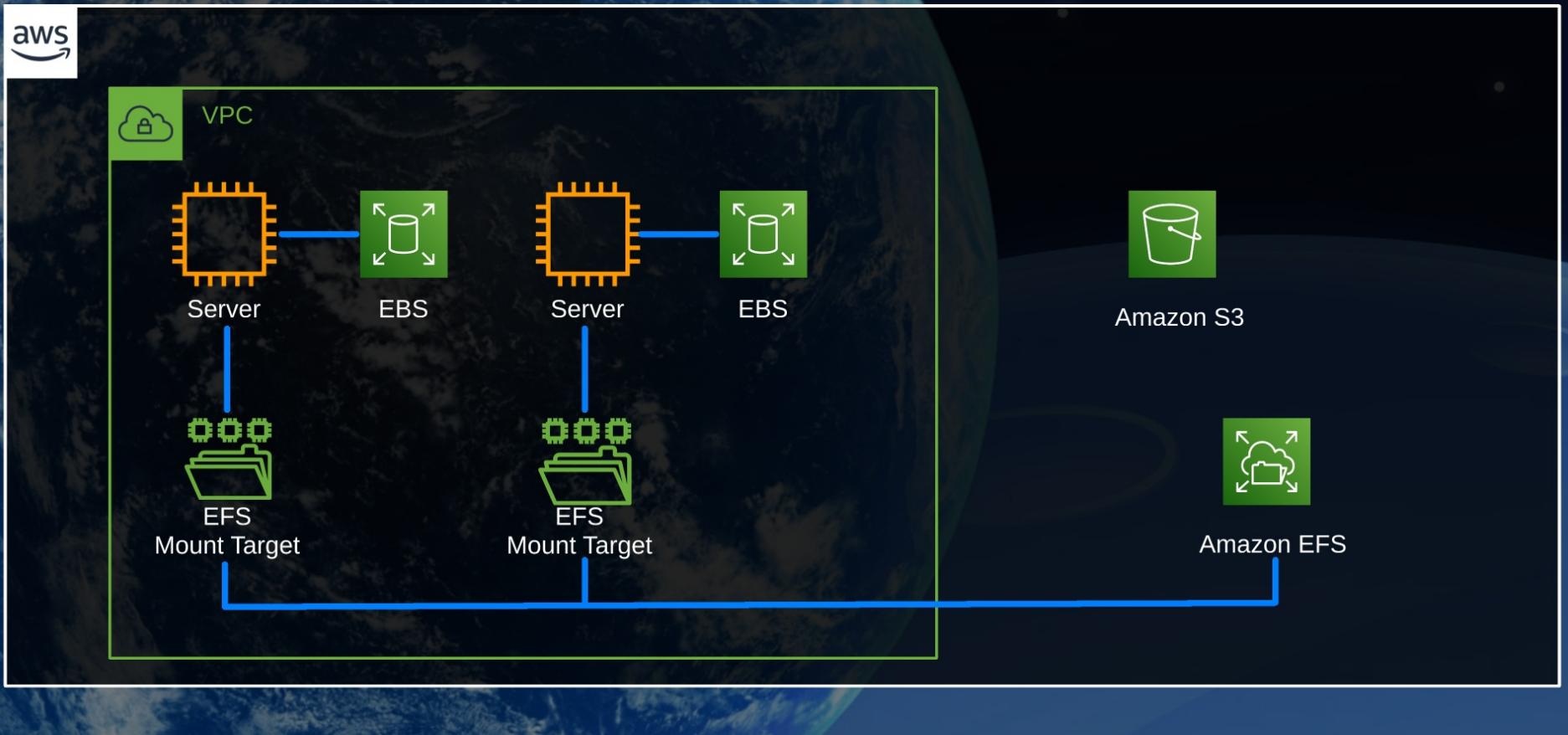
Storage Example



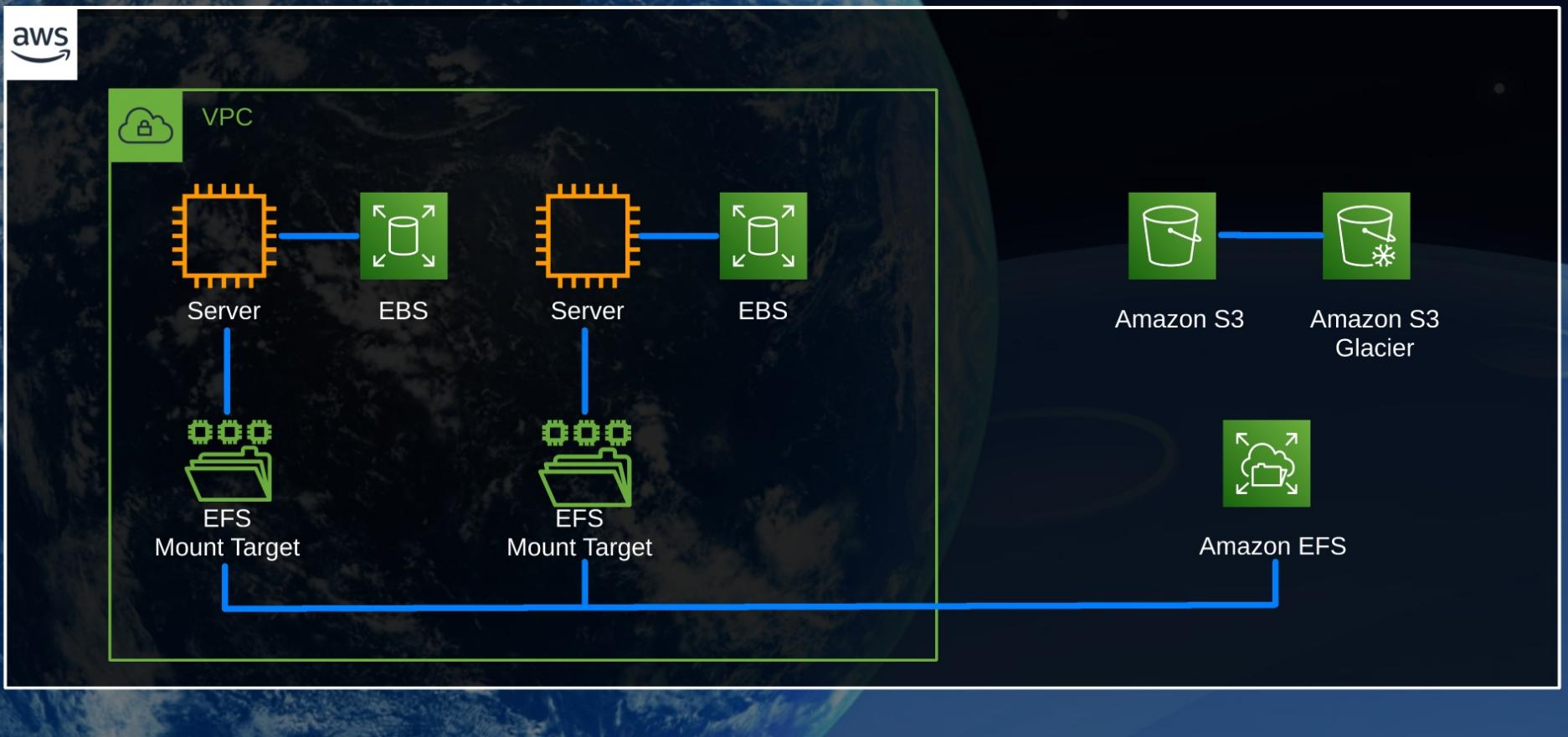
Storage Example



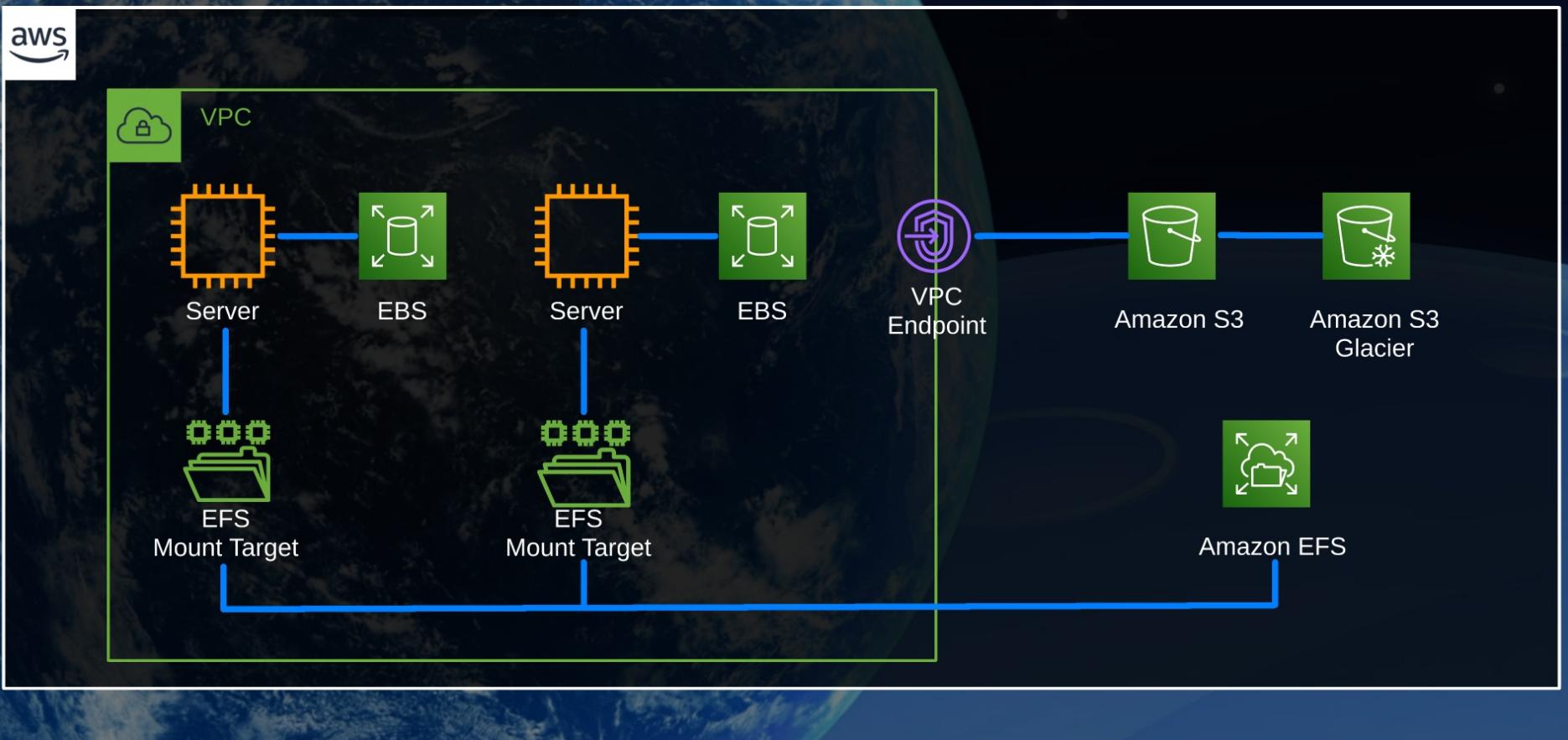
Storage Example



Storage Example



Storage Example



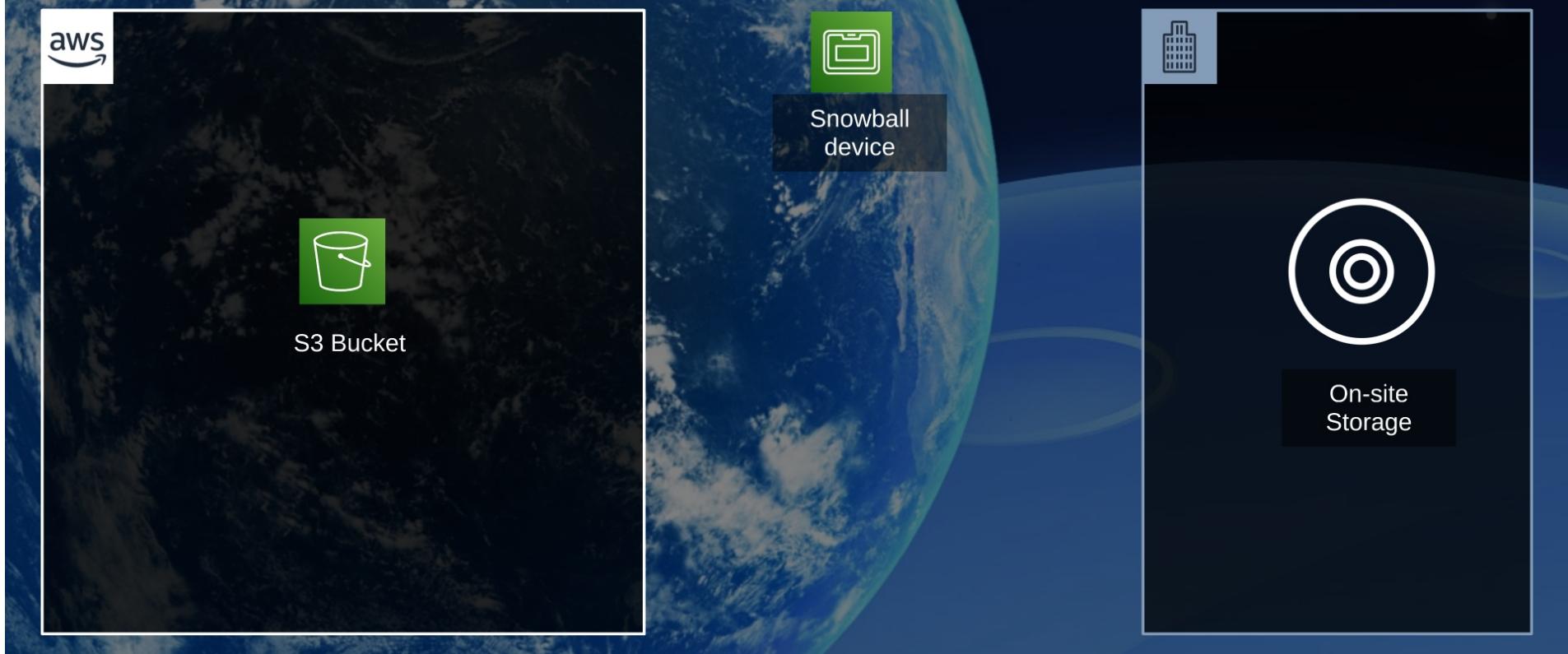
Hybrid Storage Example



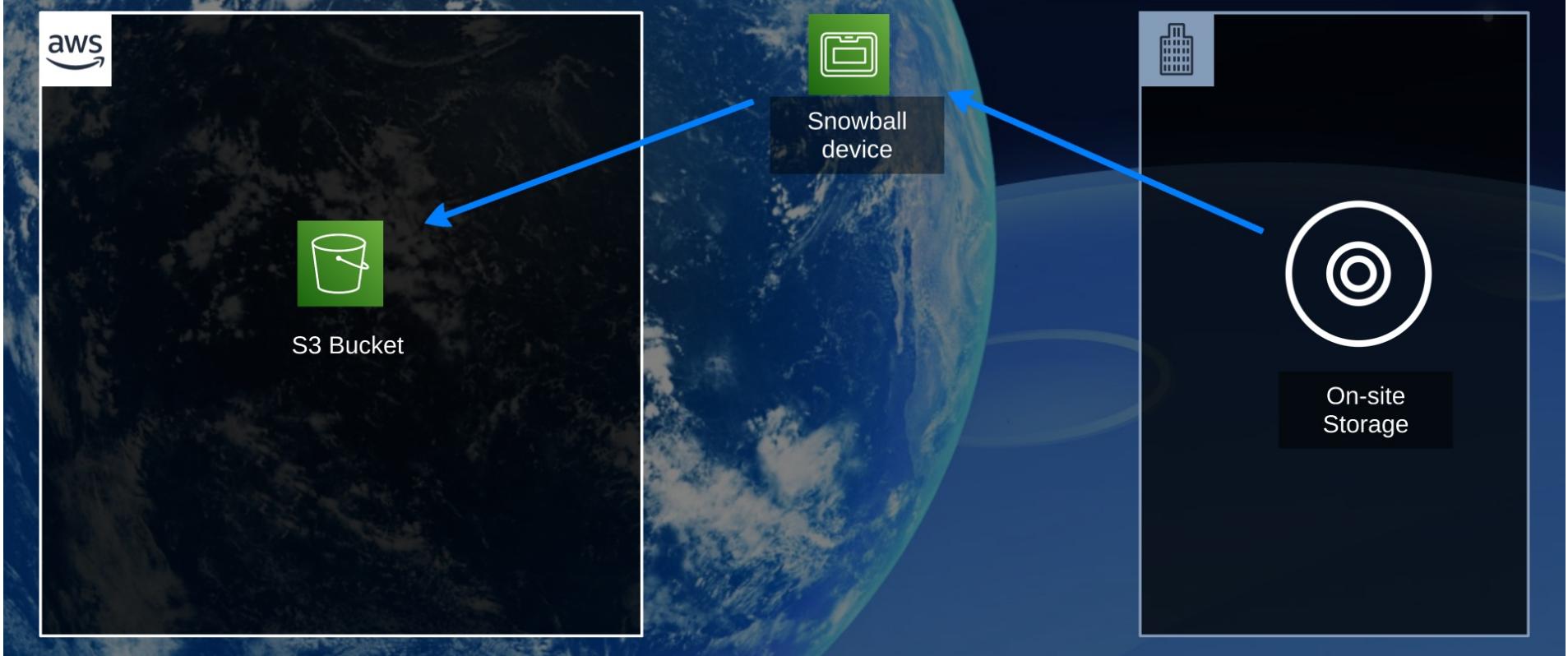
Hybrid Storage Example



Hybrid Storage Example



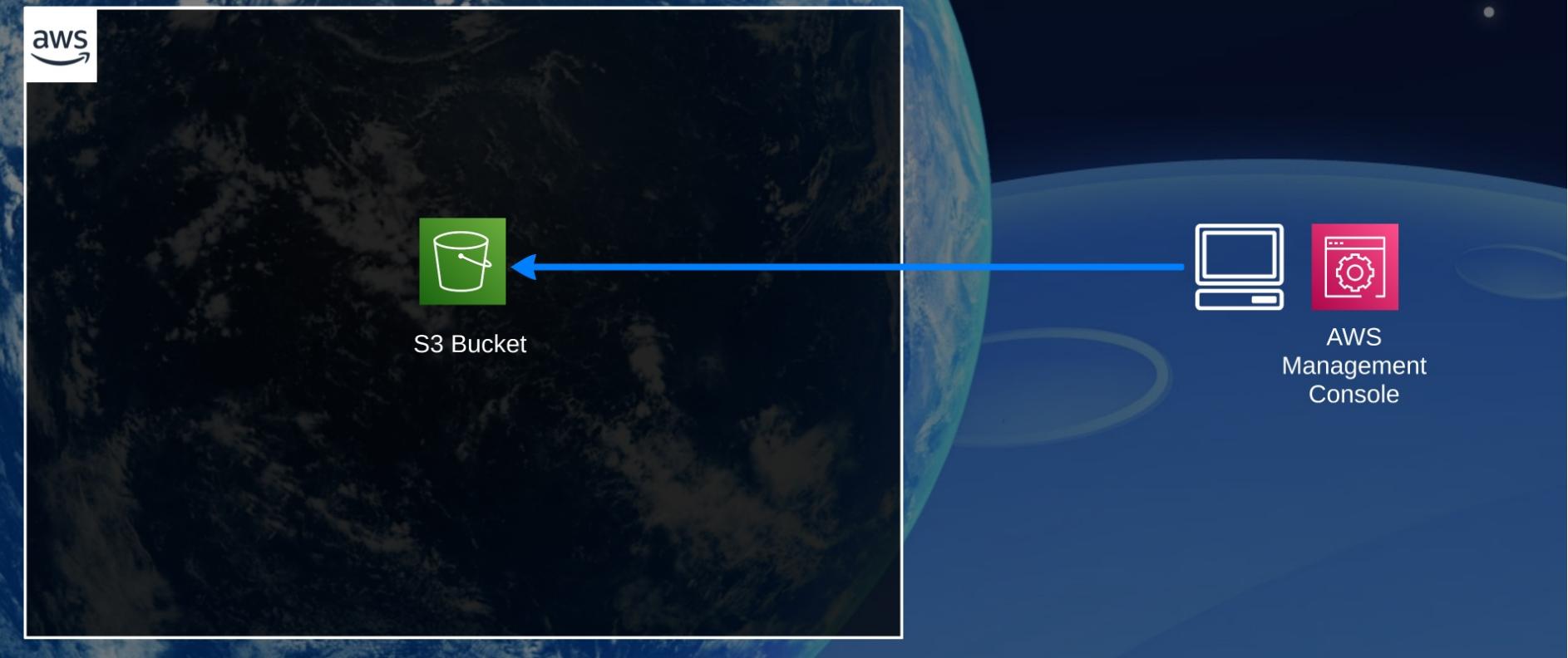
Hybrid Storage Example



Hybrid Storage Example



Lets Go!





AWS Database Services



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AWS Database Services



Relational Database
Service (RDS)



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AWS Database Services



Relational Database
Service (RDS)



DynamoDB

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AWS Database Services



Relational Database
Service (RDS)



DynamoDB



Redshift

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AWS Database Services



Relational Database
Service (RDS)



ElastiCache



DynamoDB



Redshift

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AWS Database Services



Relational Database
Service (RDS)



DynamoDB



Redshift



ElastiCache



Database
Migration Services
(DMS)

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AWS Database Services



Relational Database
Service (RDS)



DynamoDB



Redshift



ElastiCache



Database
Migration Services
(DMS)

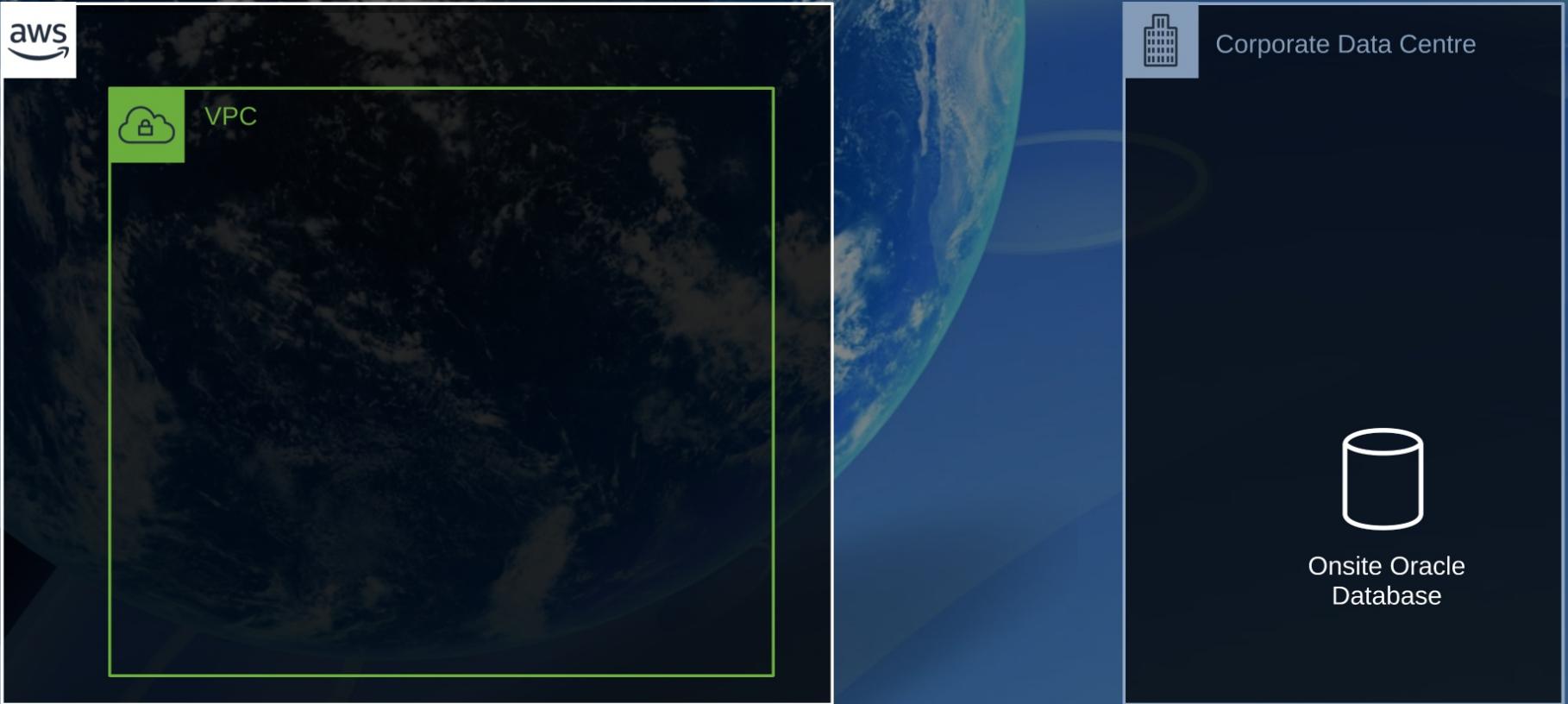


Neptune

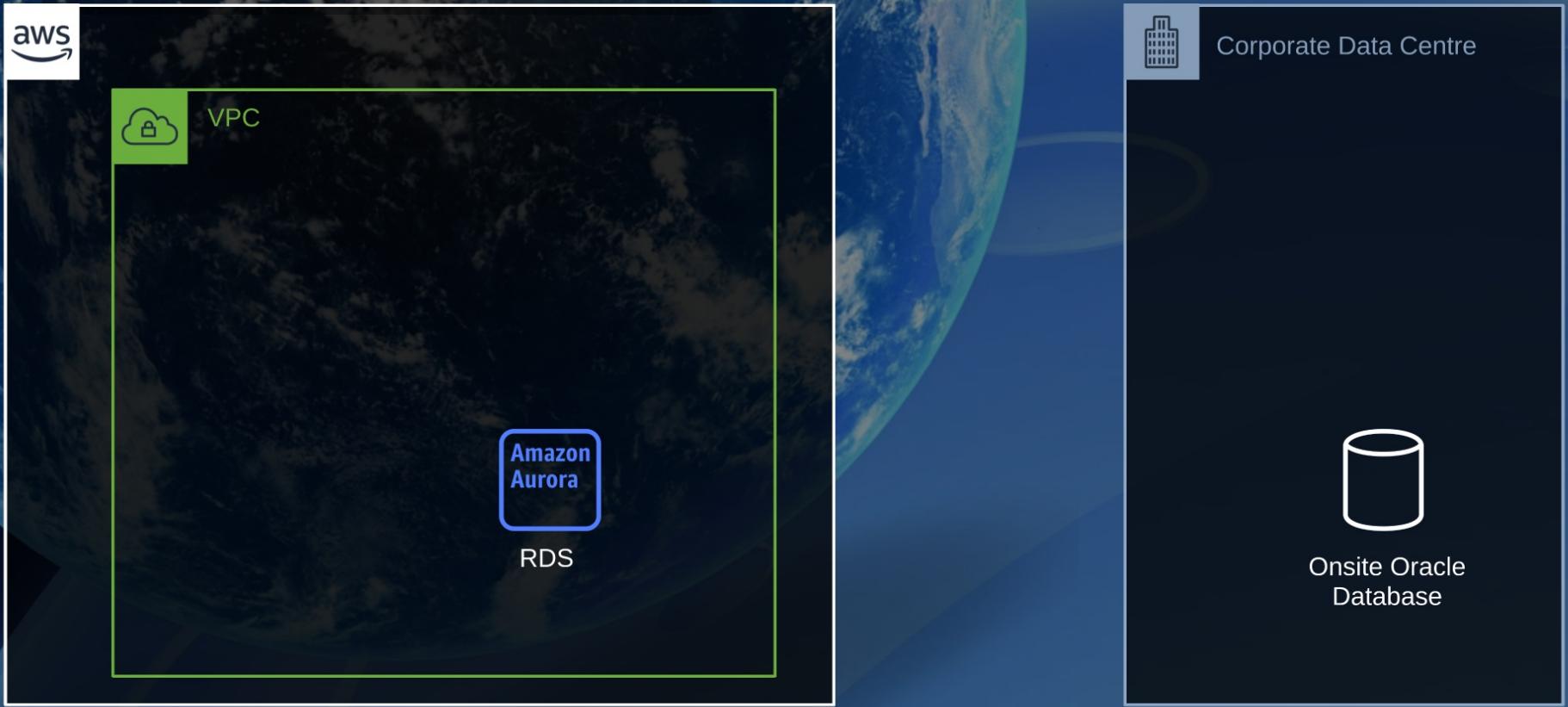
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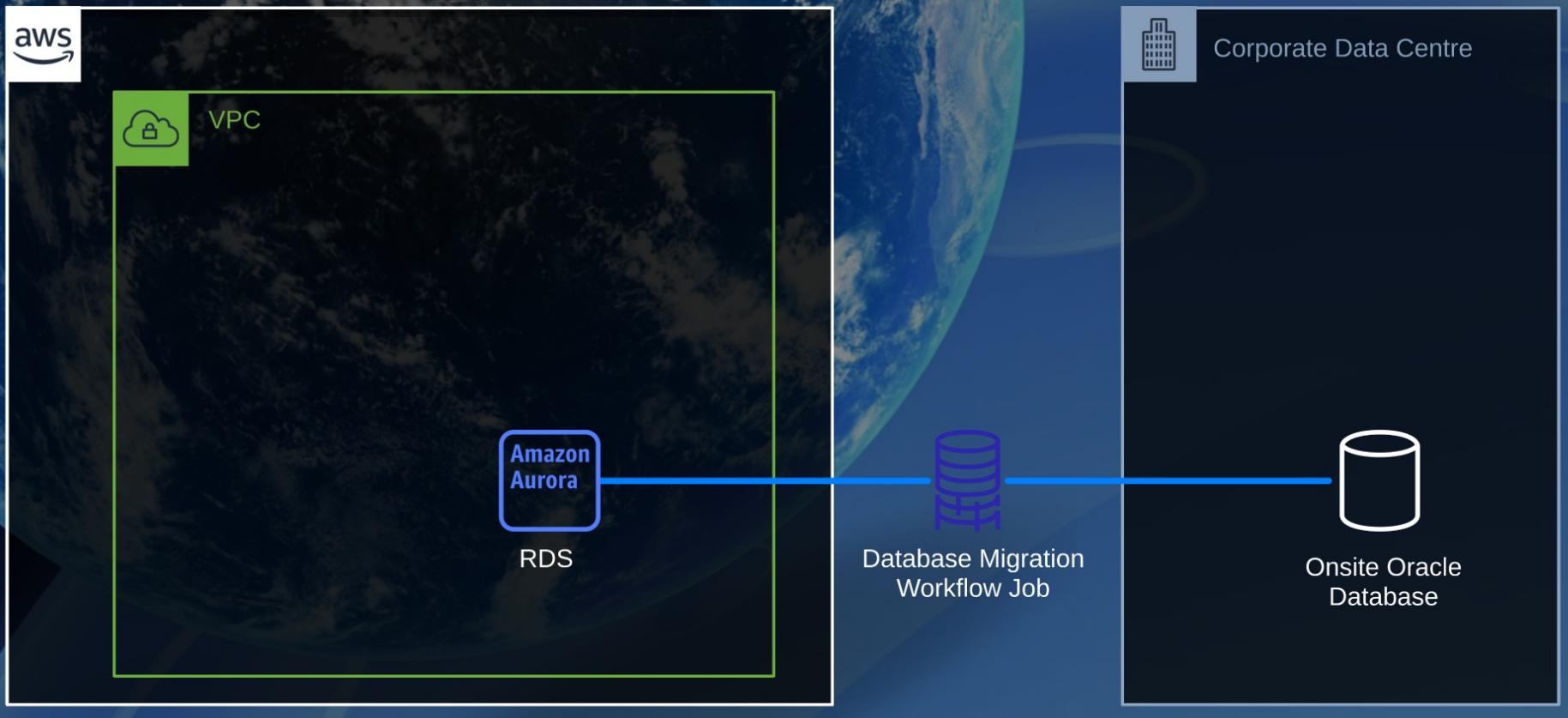
Database Example



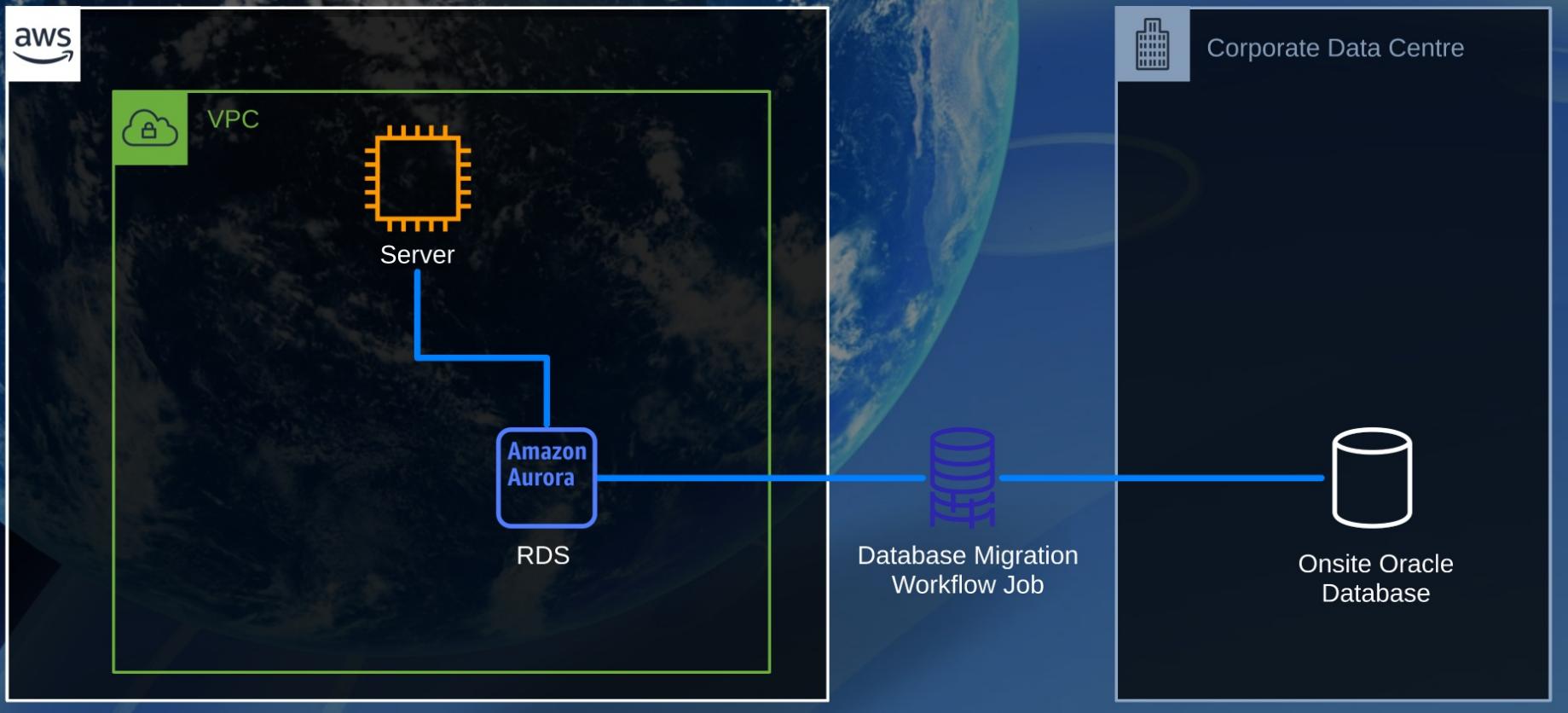
Database Example



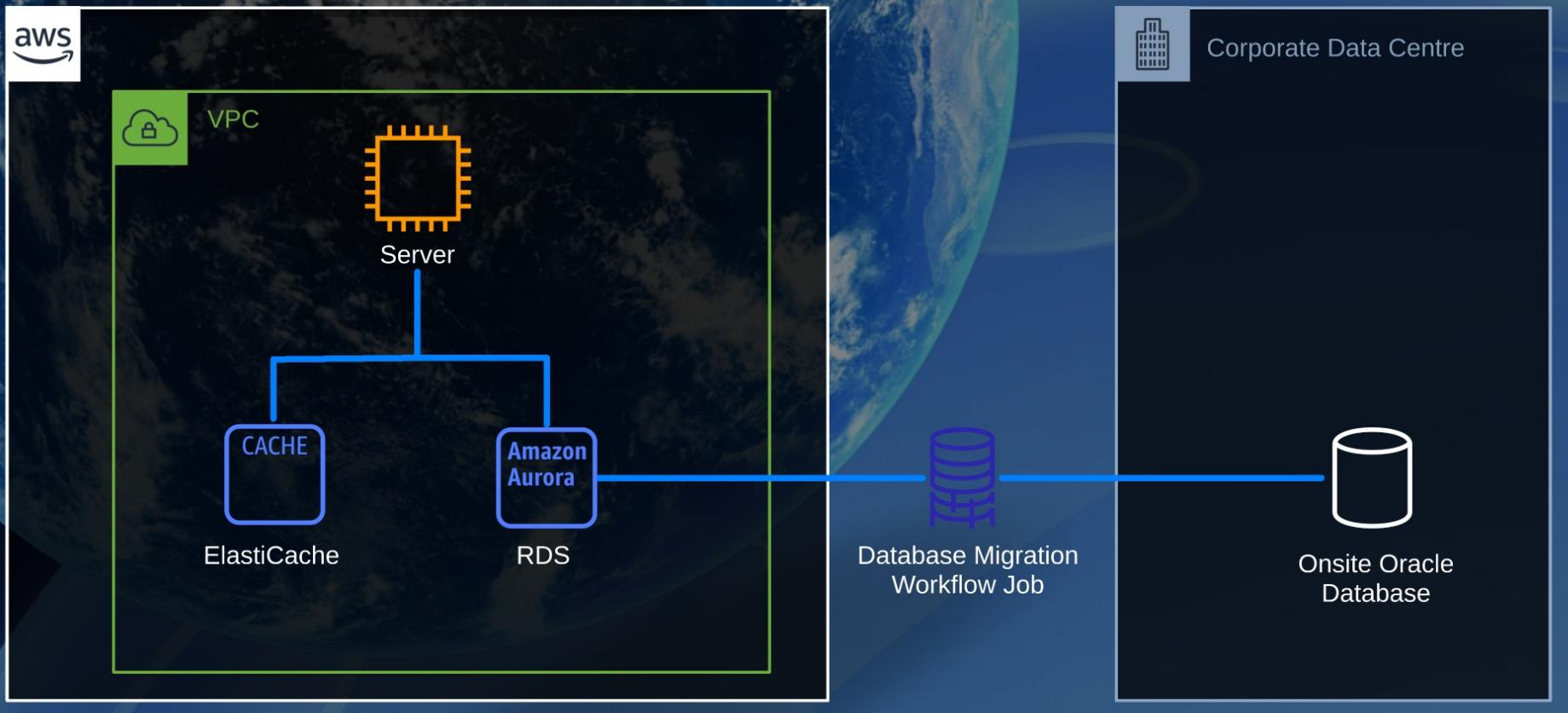
Database Example



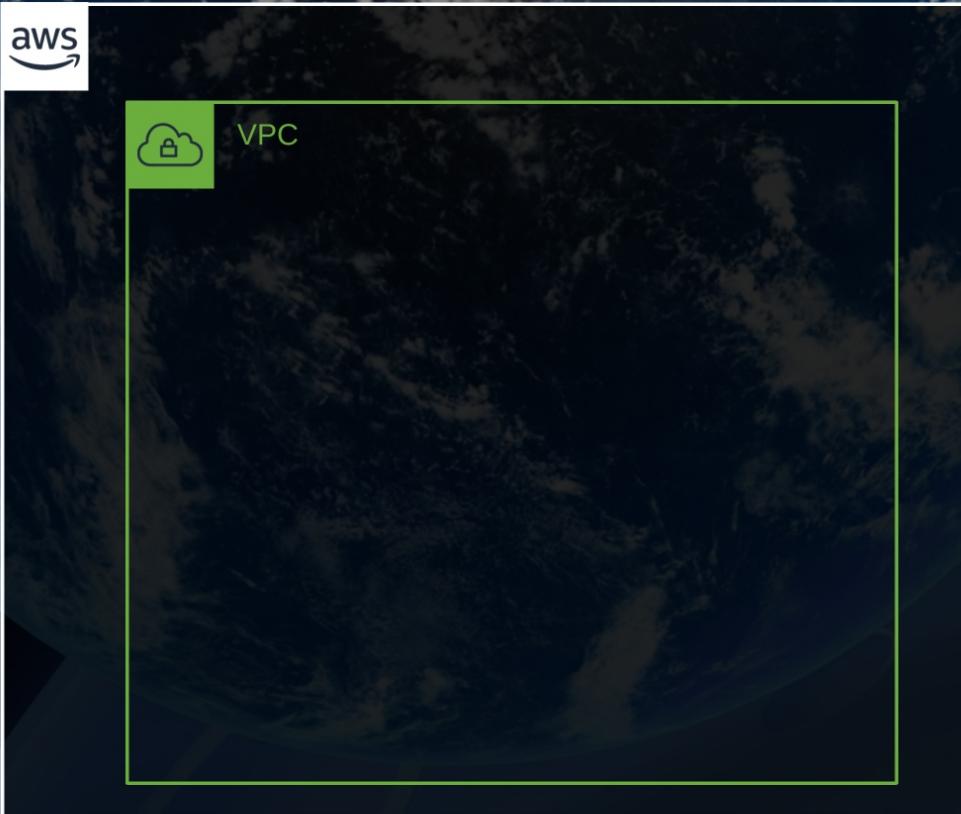
Database Example



Database Example



Let's Go!



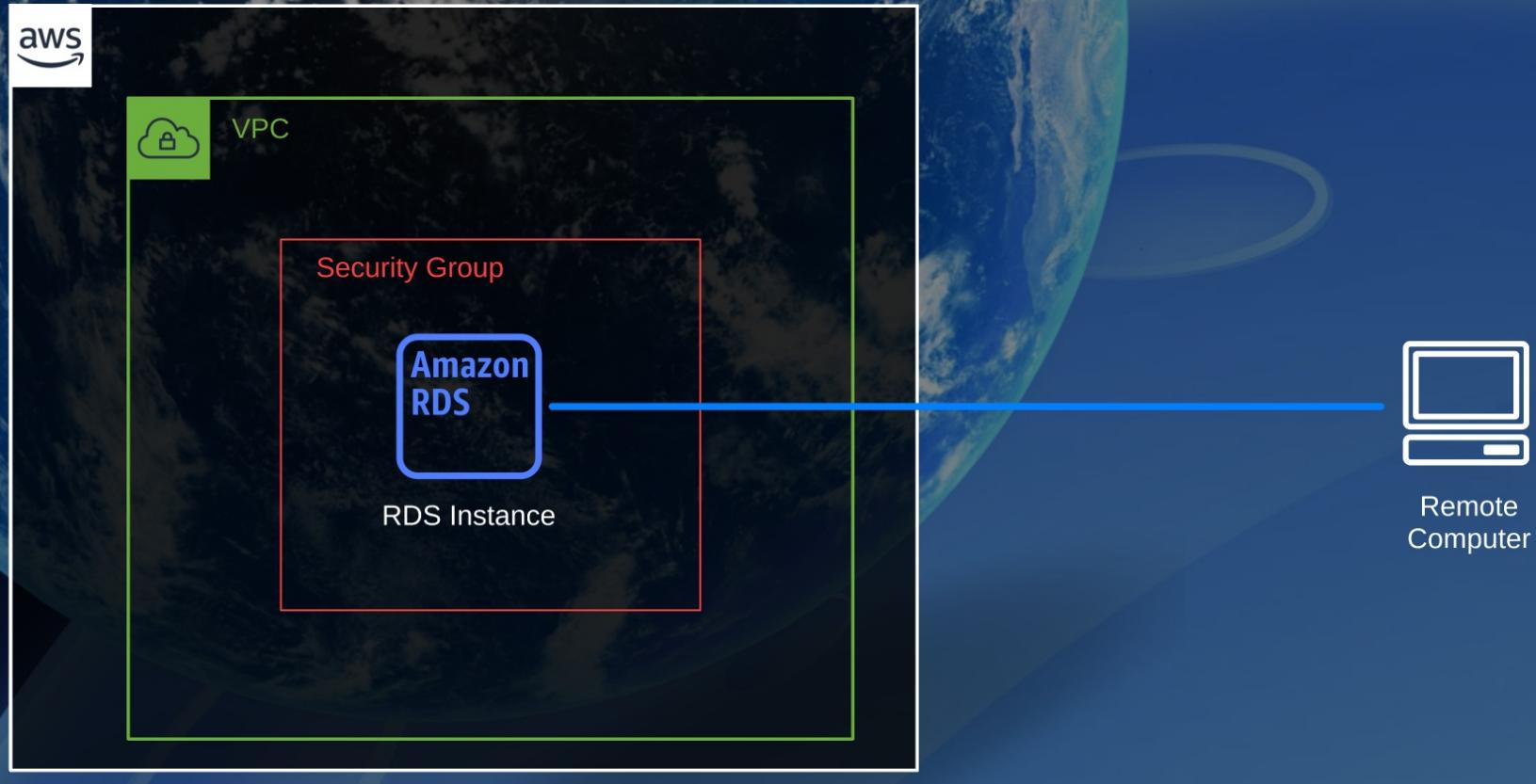
Let's Go!



Let's Go!

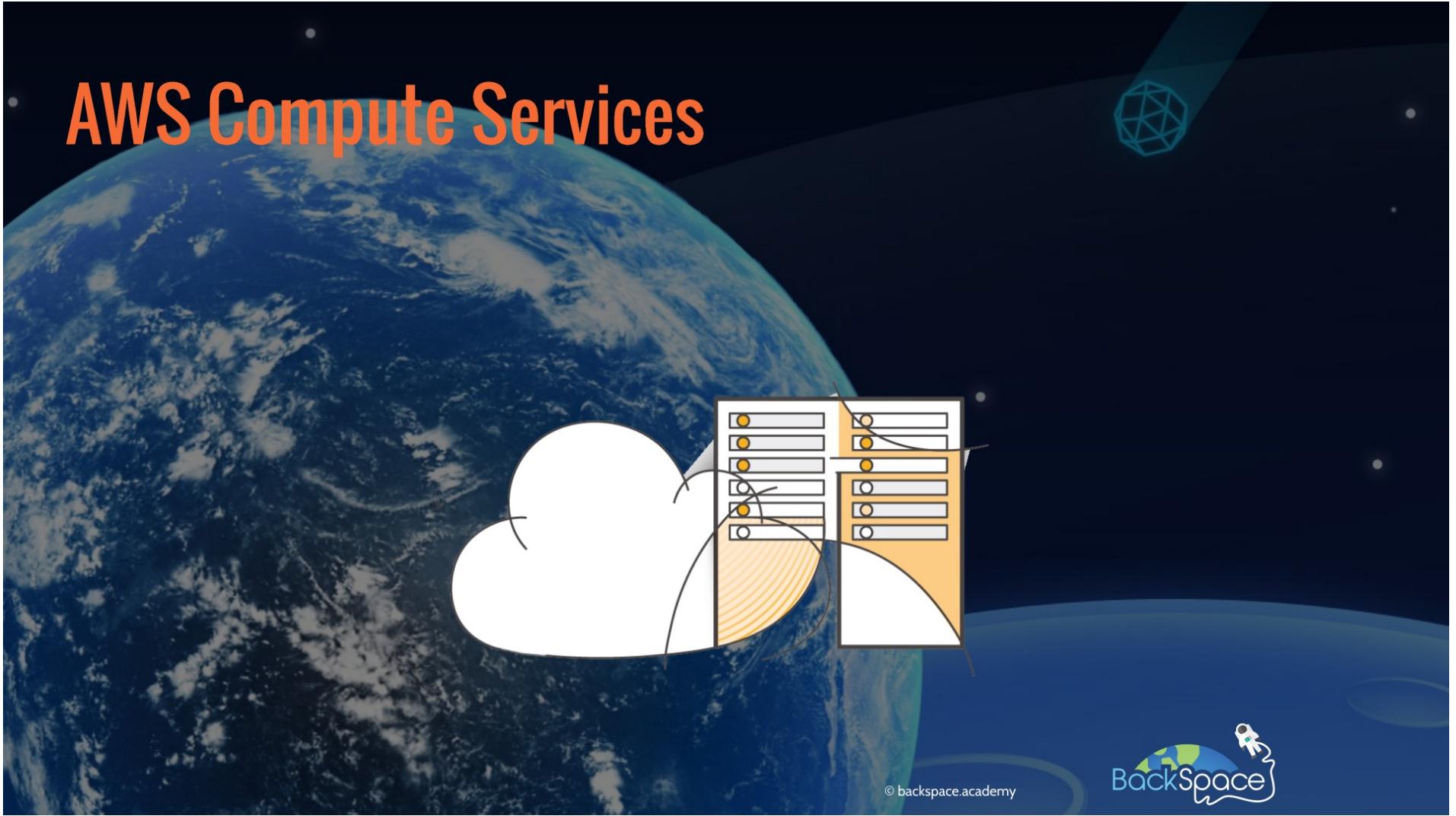


Let's Go!





AWS Compute Services



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AWS Compute Services



Elastic
Compute
Cloud (EC2)



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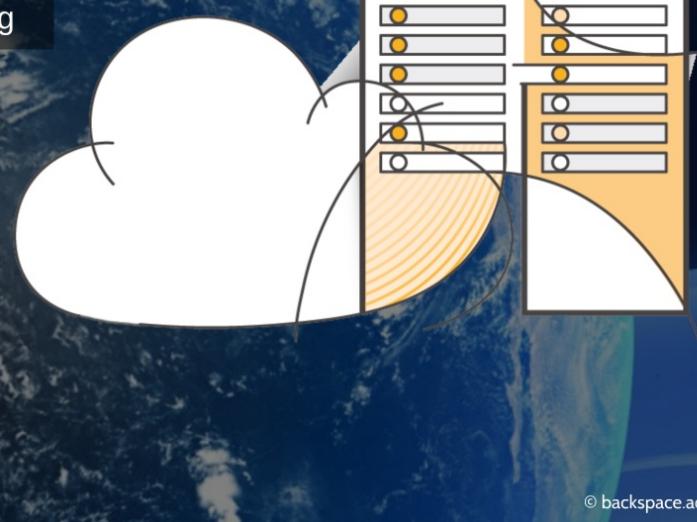
AWS Compute Services



Elastic
Compute
Cloud (EC2)



EC2
AutoScaling



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AWS Compute Services



Elastic
Compute
Cloud (EC2)



EC2
Autoscaling



Amazon
Lightsail



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AWS Compute Services



Elastic Compute Cloud (EC2)



EC2 AutoScaling



Amazon Lightsail



Elastic Container Service (ECS)

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AWS Compute Services



Elastic Compute Cloud (EC2)



EC2 AutoScaling



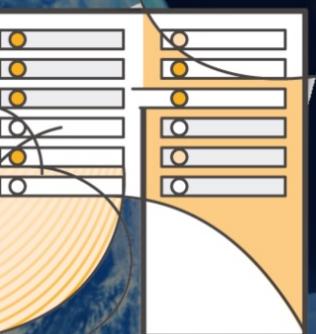
Amazon Lightsail



Elastic Container Service (ECS)



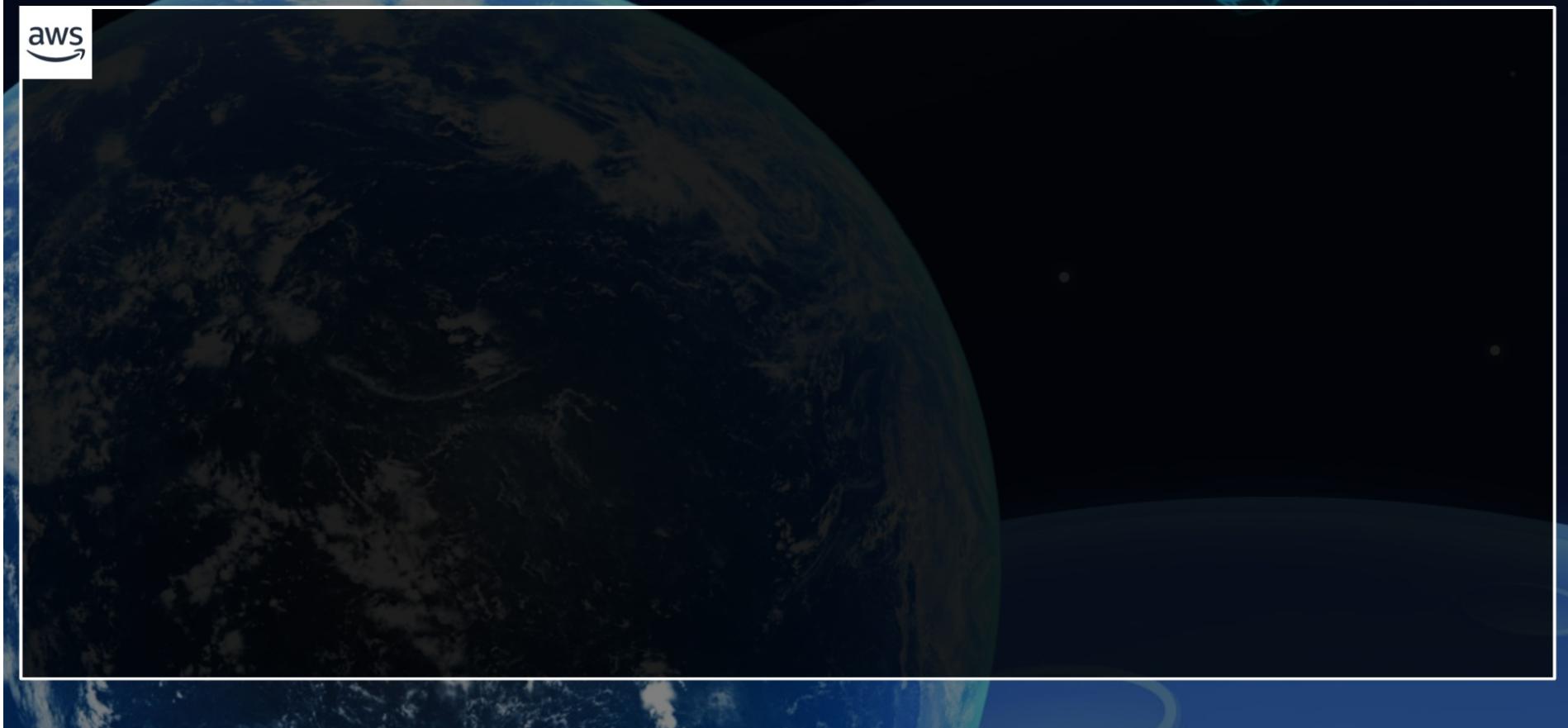
AWS Lambda



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Web Server Example



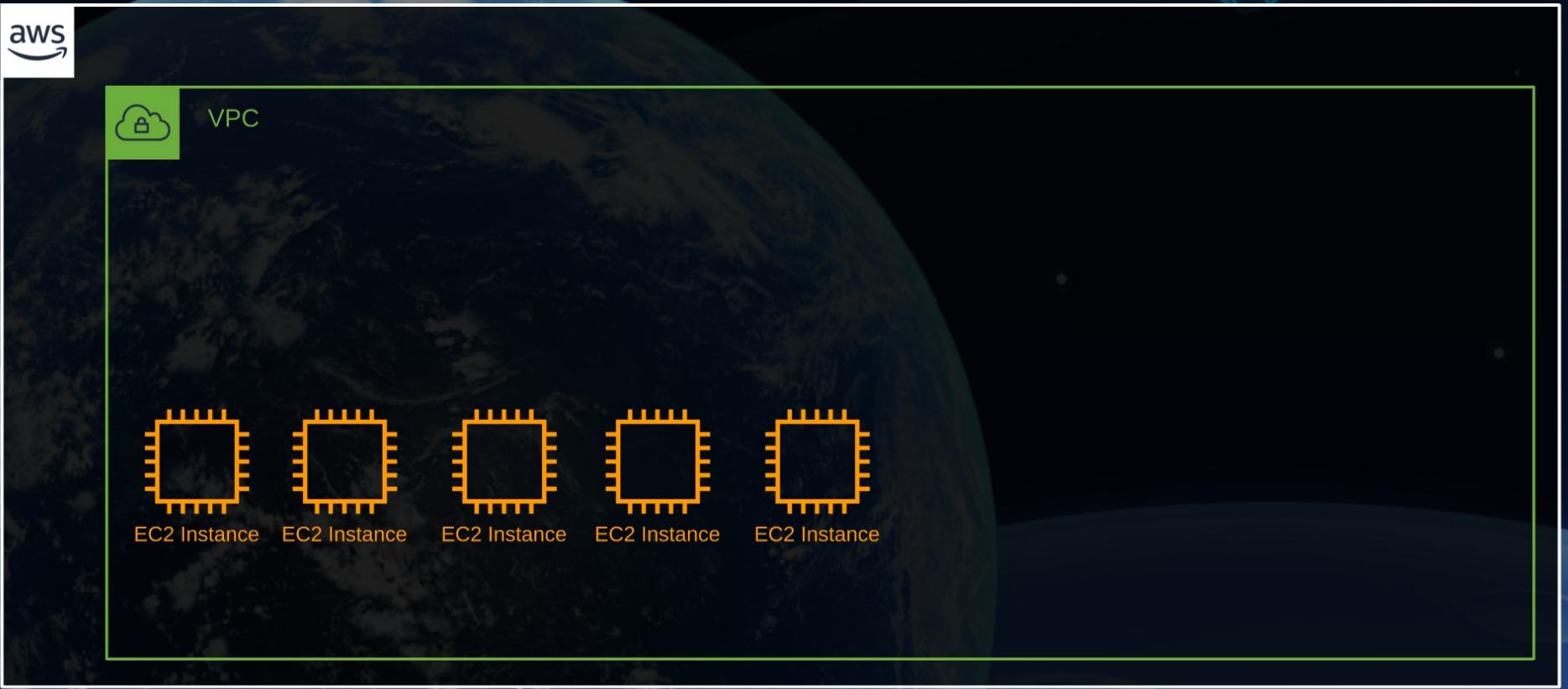
Web Server Example



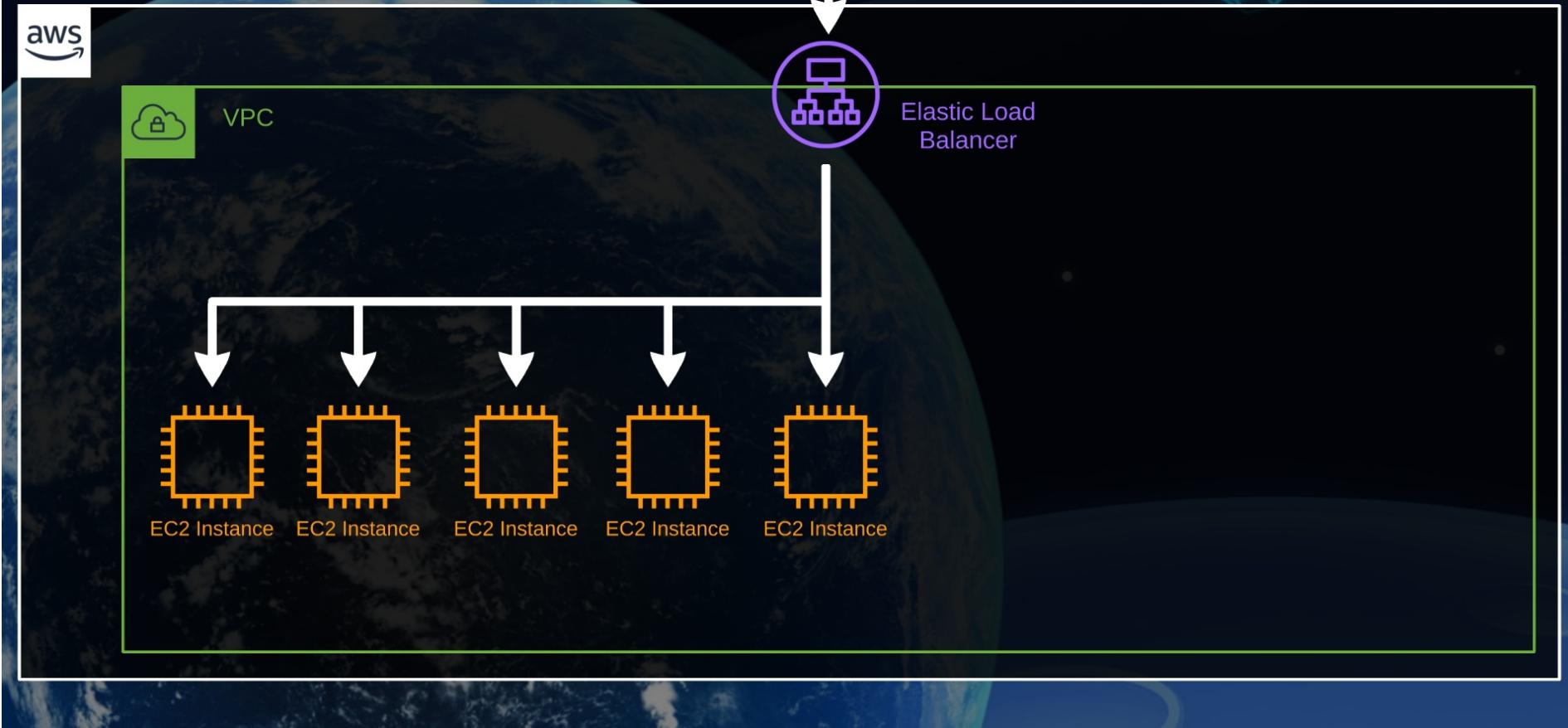
Web Server Example



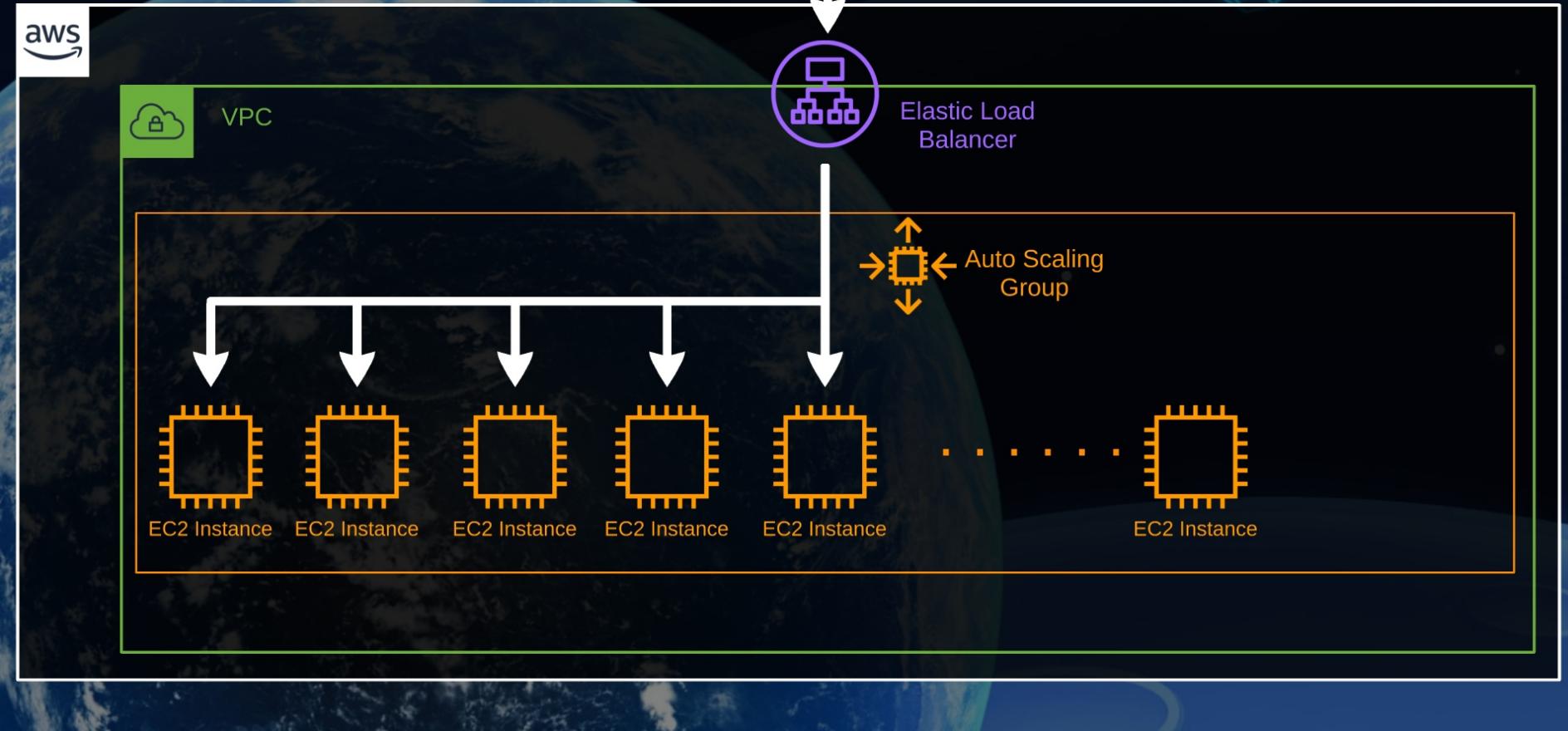
Web Server Example



Web Server Example



Web Server Example





Networking & Content Delivery



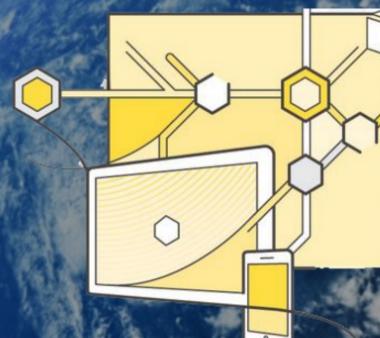
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Networking & Content Delivery



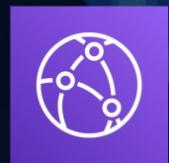
CloudFront



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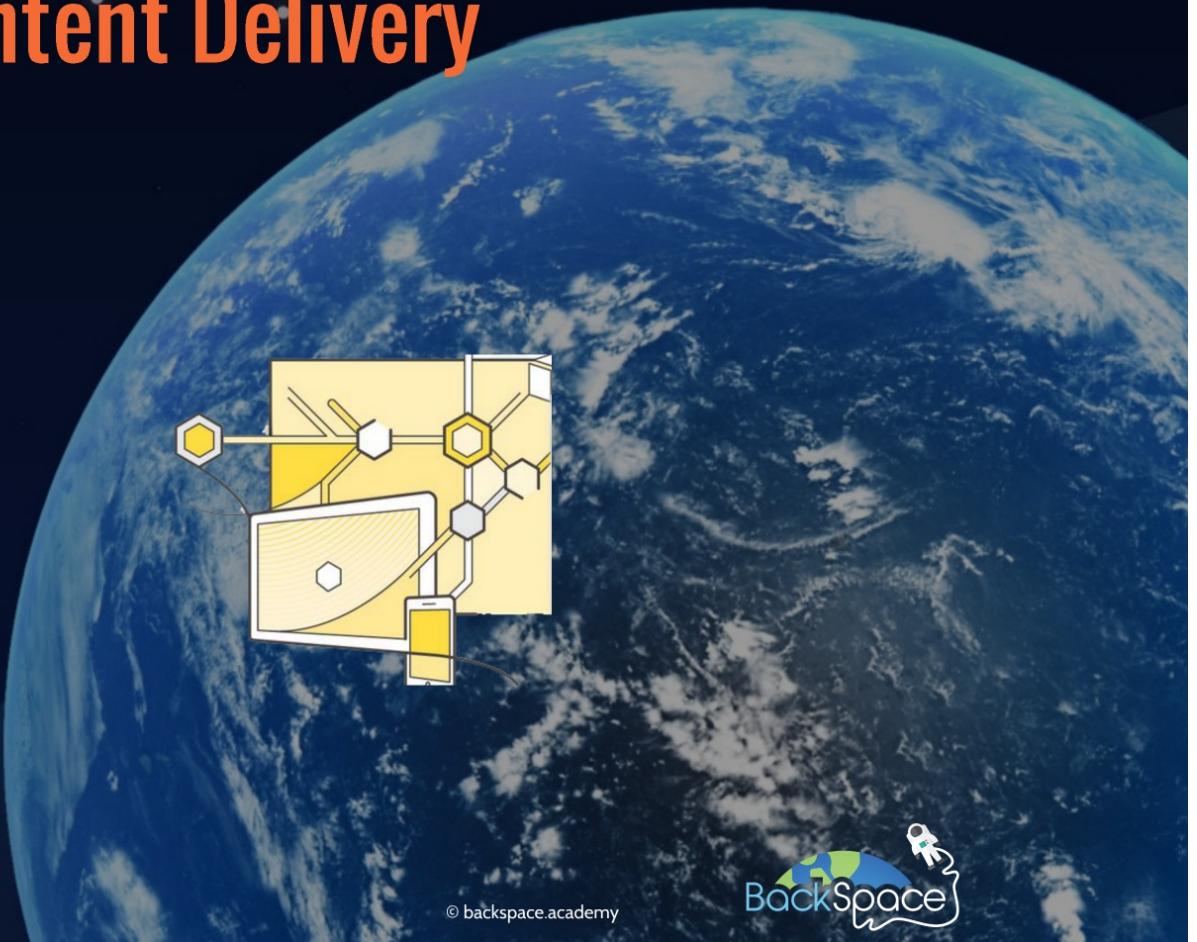
Networking & Content Delivery



CloudFront



Virtual Private
Cloud (VPC)



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Networking & Content Delivery



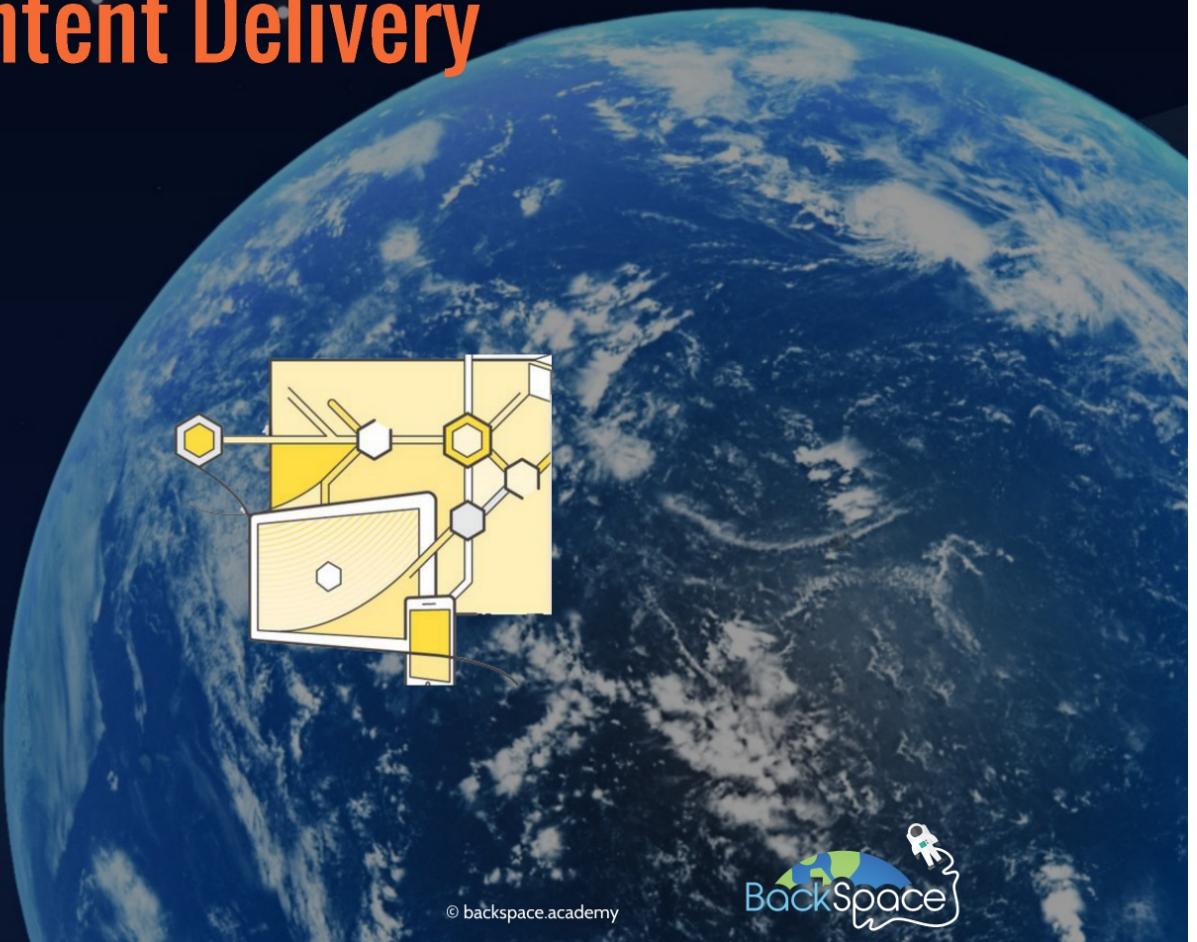
CloudFront



Virtual Private
Cloud (VPC)



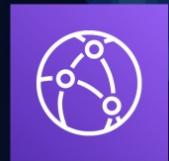
Direct
Connect



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Networking & Content Delivery



CloudFront



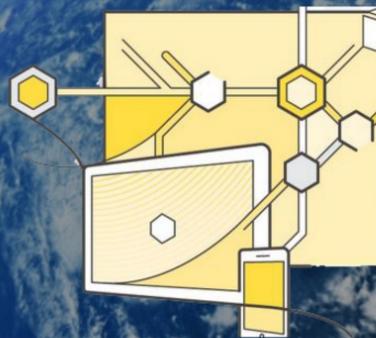
Virtual Private
Cloud (VPC)



Direct
Connect



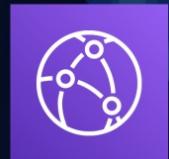
Elastic Load
Balancing
(ELB)



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Networking & Content Delivery



CloudFront



Virtual Private
Cloud (VPC)



Direct
Connect



Elastic Load
Balancing
(ELB)



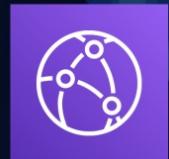
Route 53



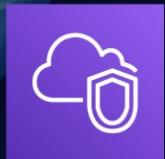
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Networking & Content Delivery



CloudFront



Virtual Private
Cloud (VPC)



Direct
Connect



Elastic Load
Balancing
(ELB)



Route 53



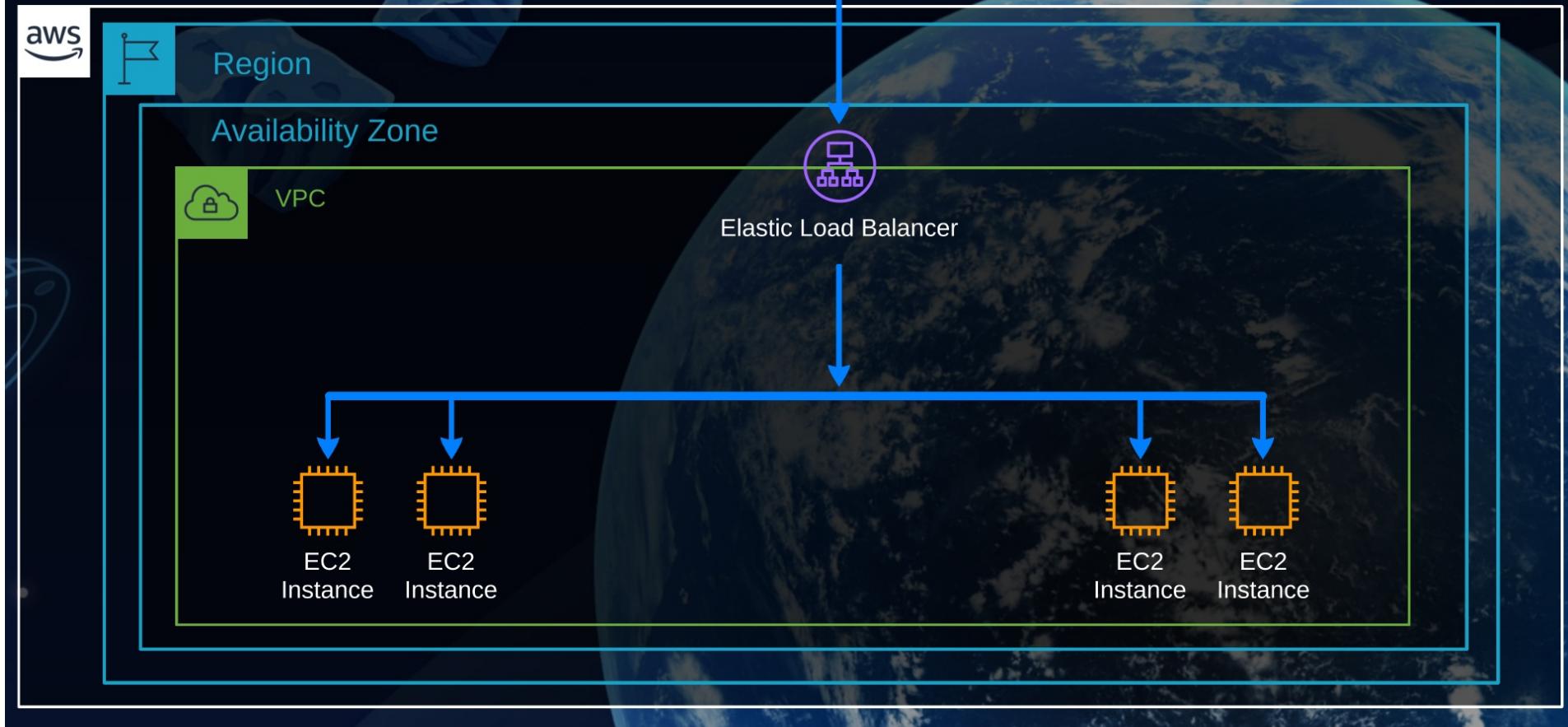
API Gateway



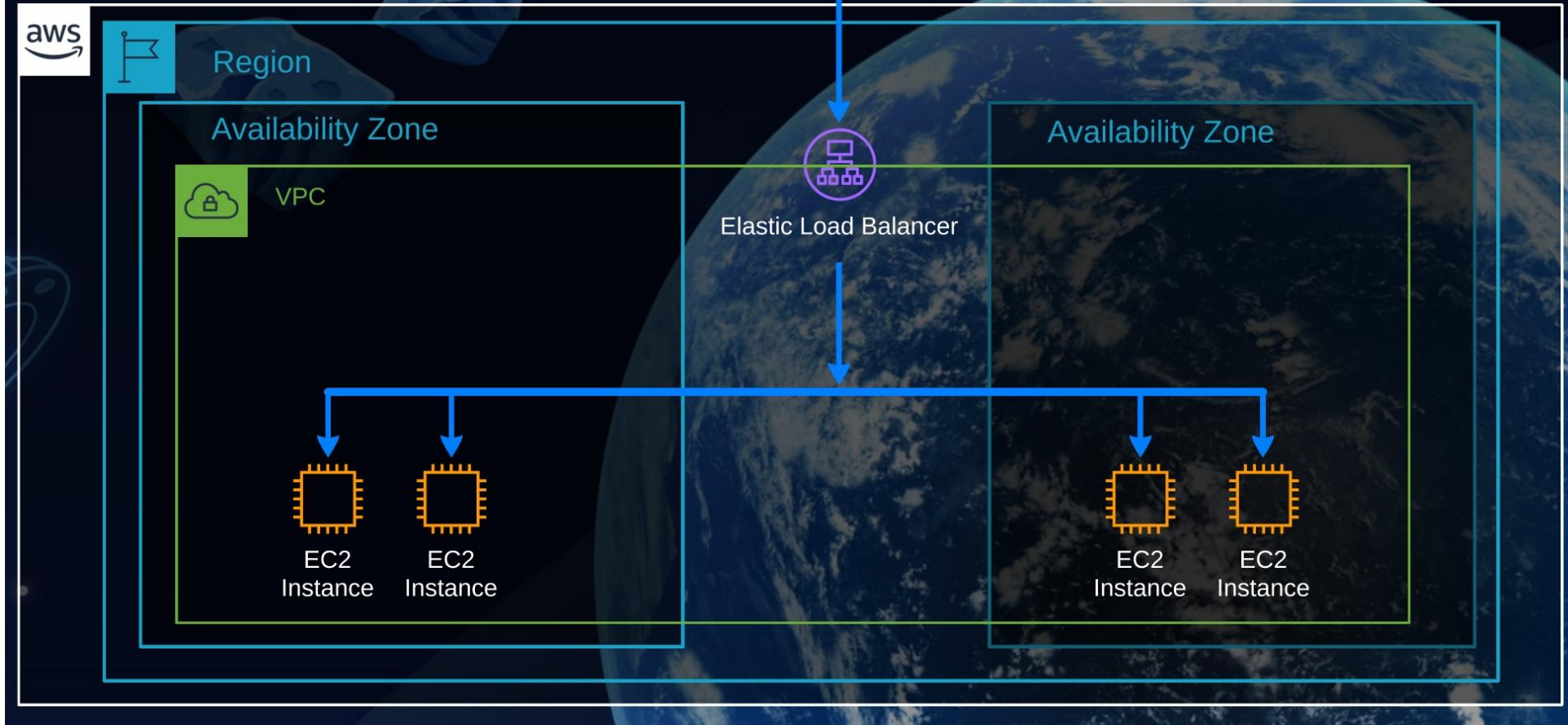
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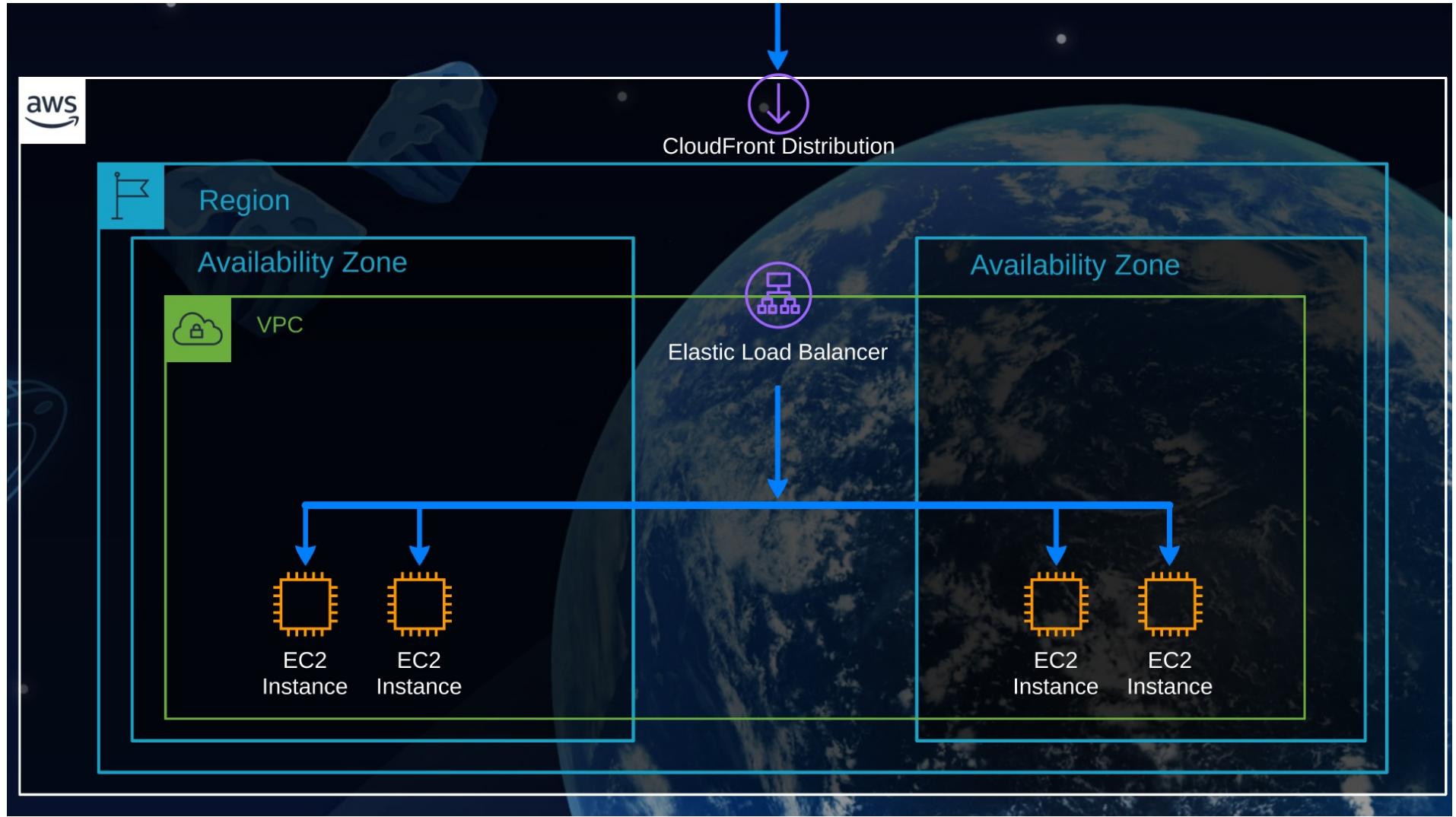


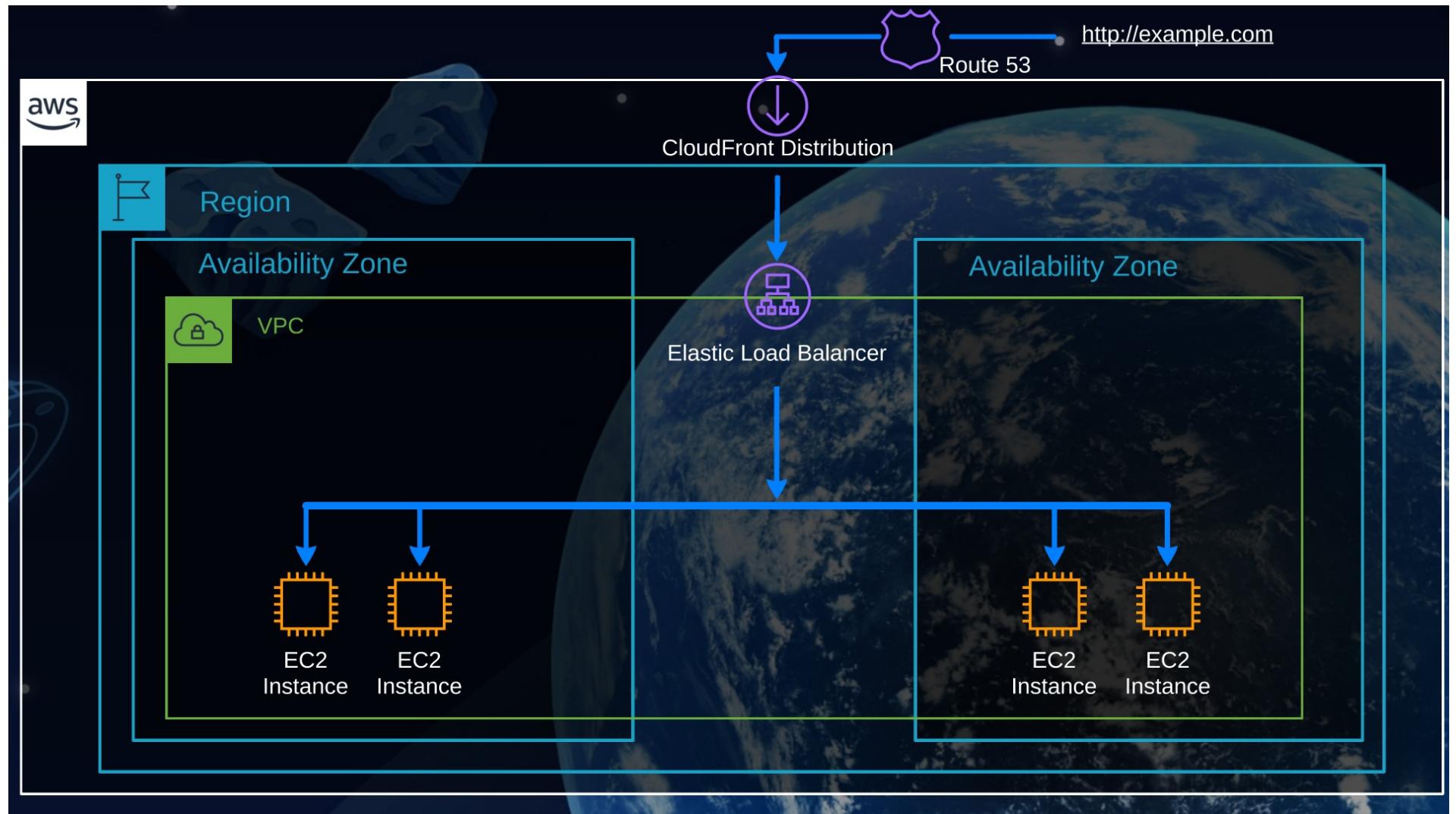
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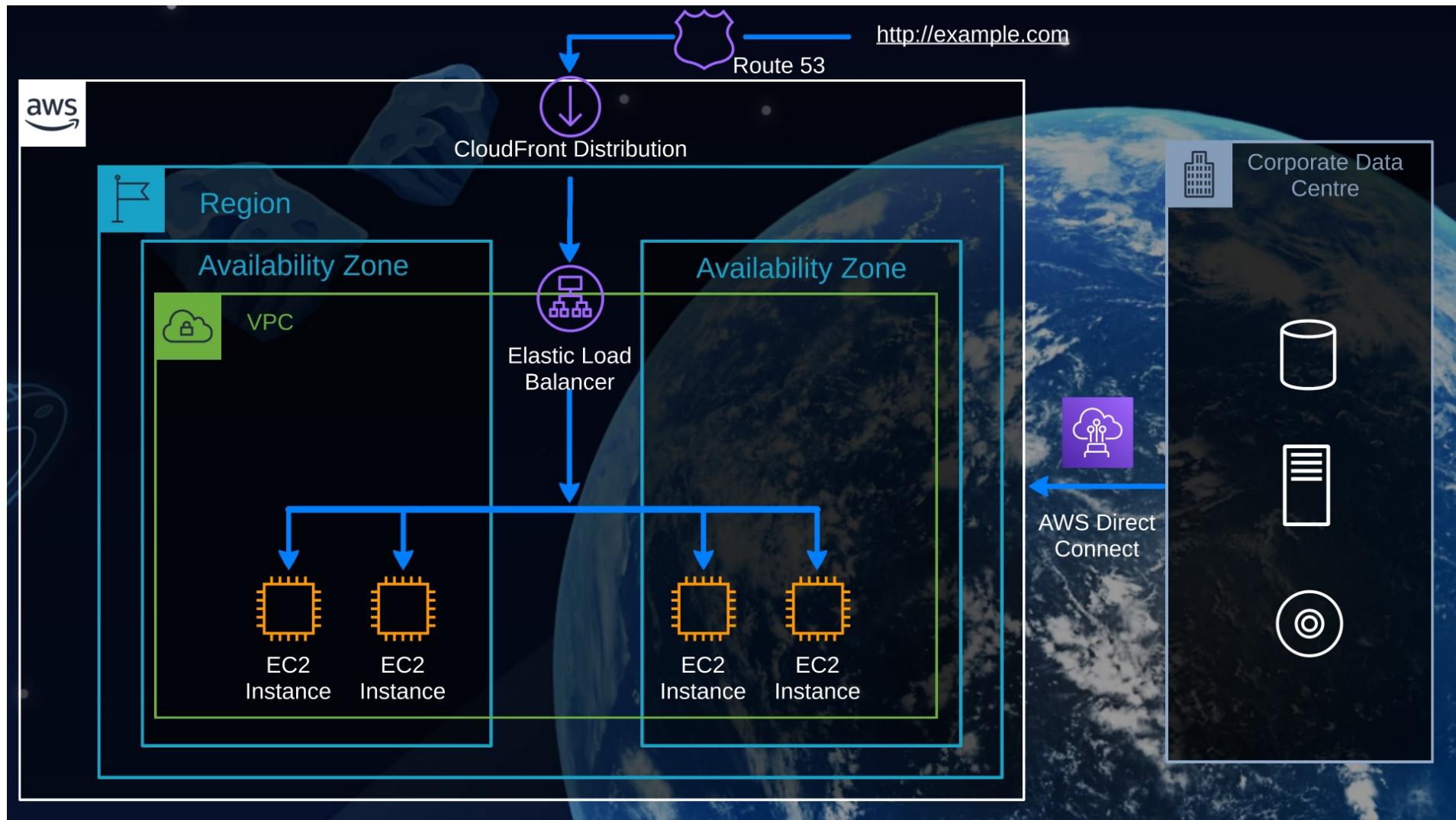


Networking Example.

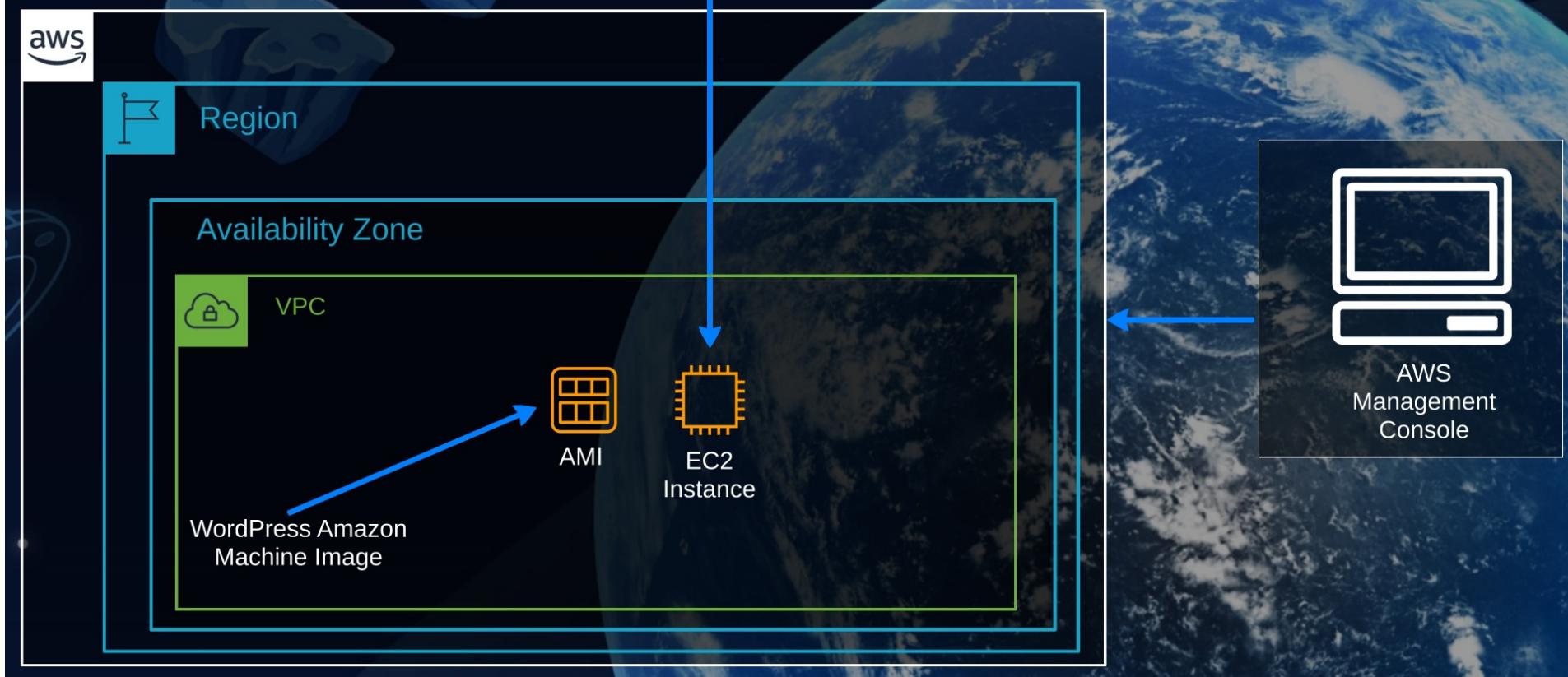








Let's Go!





AWS Management Tools

- PROVISIONING
- MONITORING AND LOGGING
- OPERATIONS MANAGEMENT
- CONFIGURATION MANAGEMENT



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AWS Management Tools



CloudFormation

- PROVISIONING
- MONITORING AND LOGGING
- OPERATIONS MANAGEMENT
- CONFIGURATION MANAGEMENT



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AWS Management Tools



CloudFormation



AWS Service Catalog

- PROVISIONING
- MONITORING AND LOGGING
- OPERATIONS MANAGEMENT
- CONFIGURATION MANAGEMENT



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AWS Management Tools



CloudFormation



AWS Service Catalog



CloudWatch

- PROVISIONING
- MONITORING AND LOGGING
- OPERATIONS MANAGEMENT
- CONFIGURATION MANAGEMENT



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AWS Management Tools



CloudFormation



AWS Service Catalog



CloudWatch



AWS Systems Manager

- PROVISIONING
- MONITORING AND LOGGING
- OPERATIONS MANAGEMENT
- CONFIGURATION MANAGEMENT



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AWS Management Tools



CloudFormation



AWS Service Catalog



CloudWatch



AWS Systems Manager

- PROVISIONING
- MONITORING AND LOGGING
- OPERATIONS MANAGEMENT
- CONFIGURATION MANAGEMENT



CloudTrail



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AWS Management Tools



CloudFormation



AWS Service Catalog



CloudWatch



AWS Systems Manager

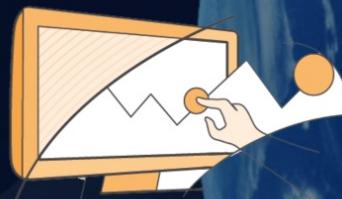
- PROVISIONING
- MONITORING AND LOGGING
- OPERATIONS MANAGEMENT
- CONFIGURATION MANAGEMENT



CloudTrail



AWS Config



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AWS Management Tools



CloudFormation



AWS Service Catalog



CloudWatch



AWS Systems Manager

- PROVISIONING
- MONITORING AND LOGGING
- OPERATIONS MANAGEMENT
- CONFIGURATION MANAGEMENT



CloudTrail



AWS Config



OpsWorks



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AWS Management Tools



CloudFormation



AWS Service Catalog



CloudWatch



AWS Systems Manager

- PROVISIONING
- MONITORING AND LOGGING
- OPERATIONS MANAGEMENT
- CONFIGURATION MANAGEMENT



CloudTrail



AWS Config



OpsWorks



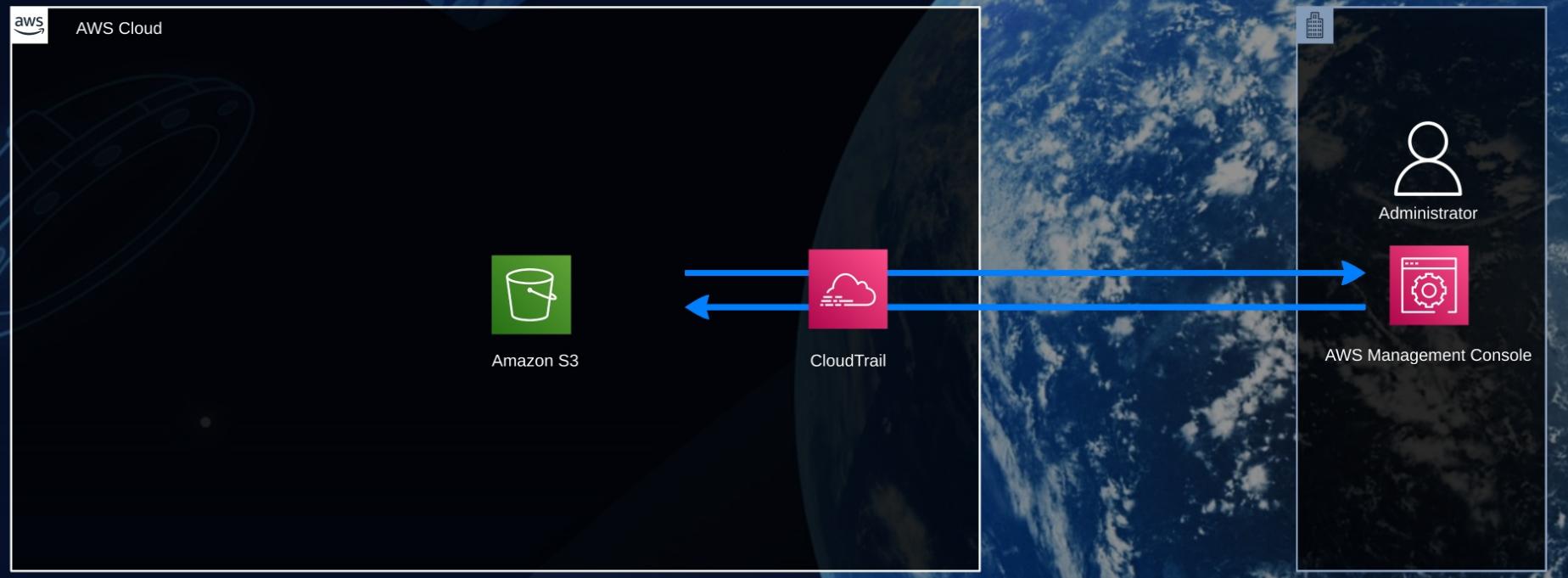
Trusted Advisor



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Let's go!





Application Integration



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Application Integration



Step
Functions



© backspace.academy



Application Integration



Step
Functions



Simple WorkFlow
Service (SWF)



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Application Integration



Step Functions



Simple WorkFlow
Service (SWF)



Simple Notification
Service (SNS)



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Application Integration



Step Functions



Simple WorkFlow
Service (SWF)



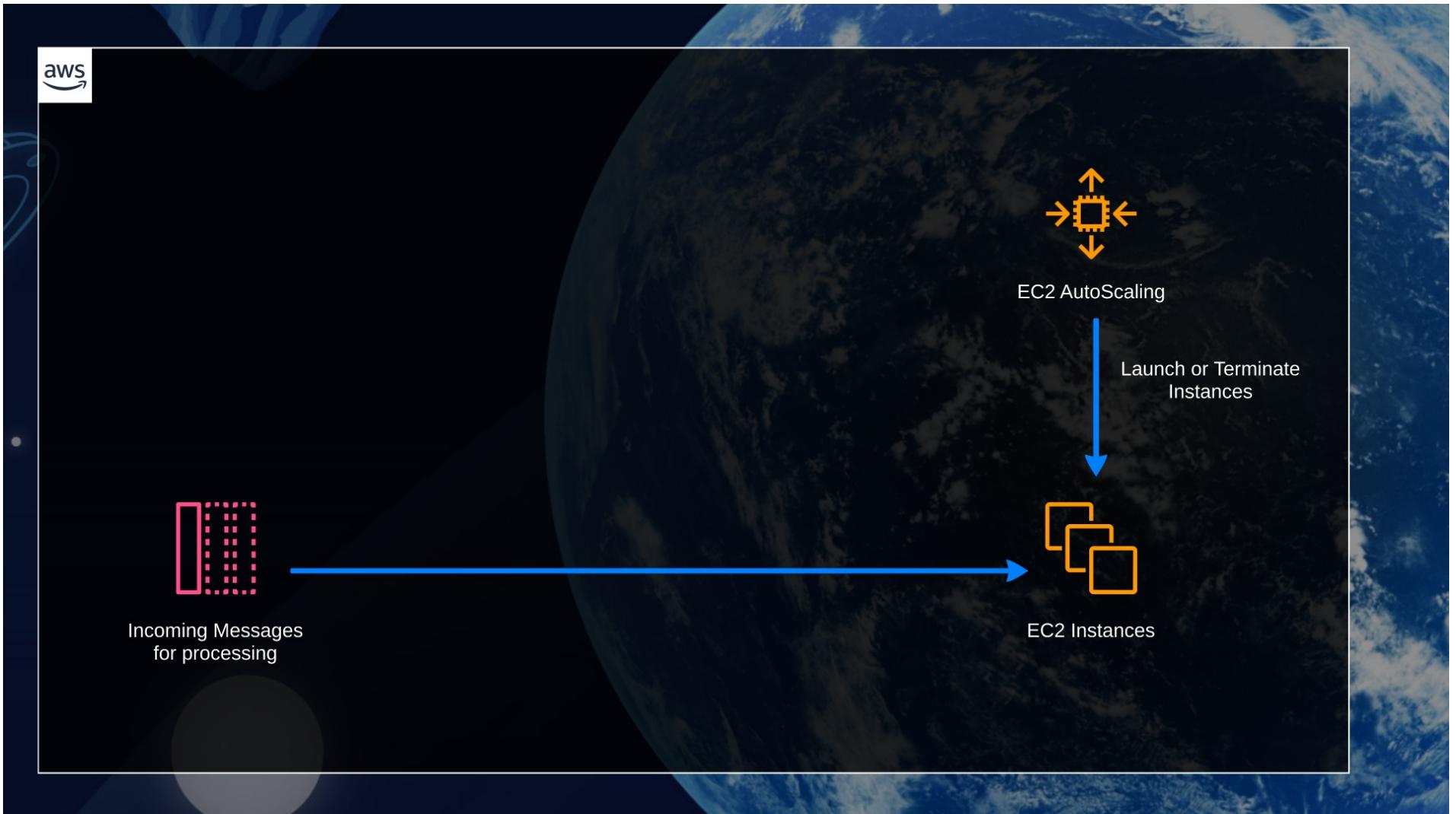
Simple Notification
Service (SNS)

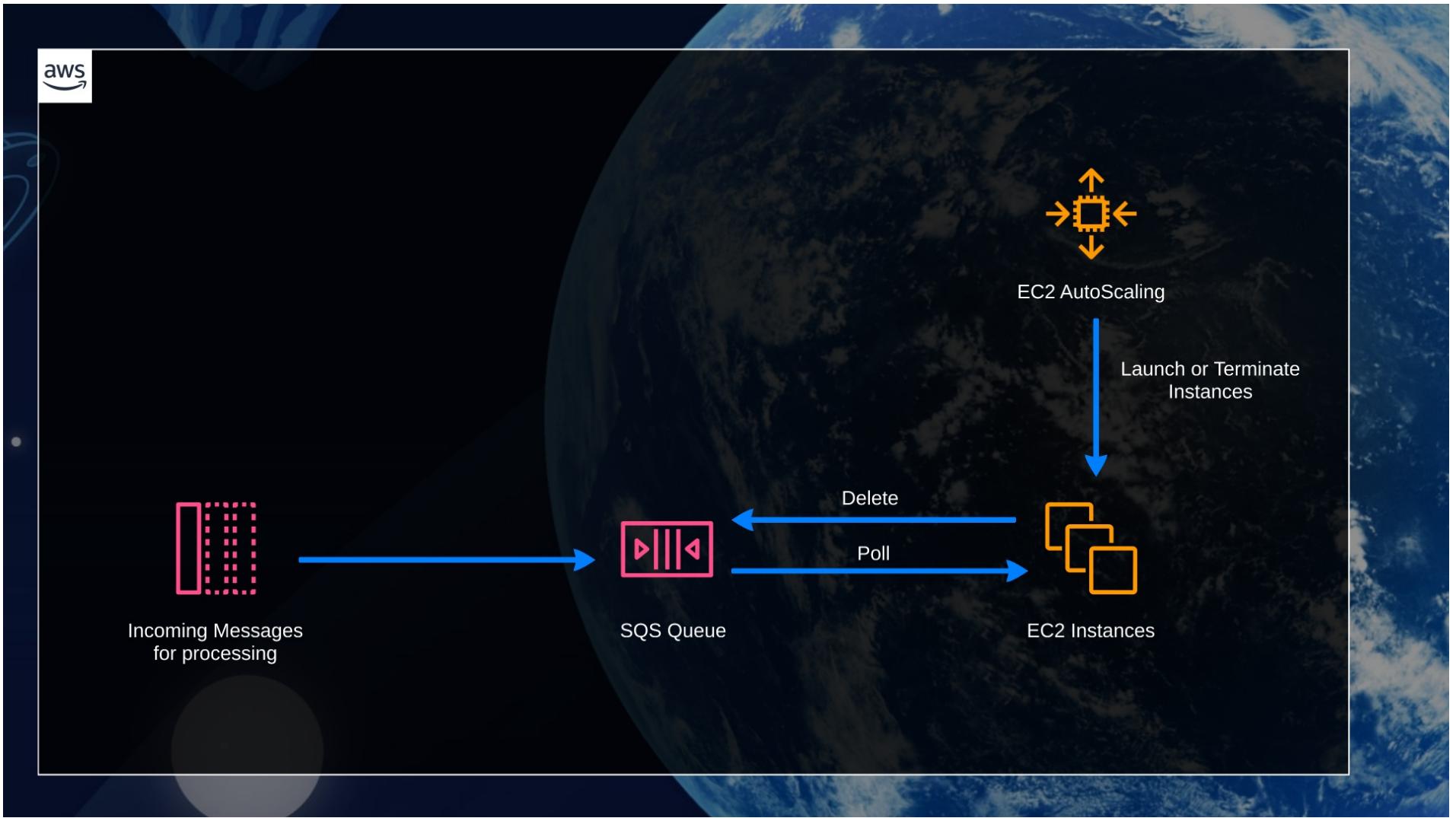


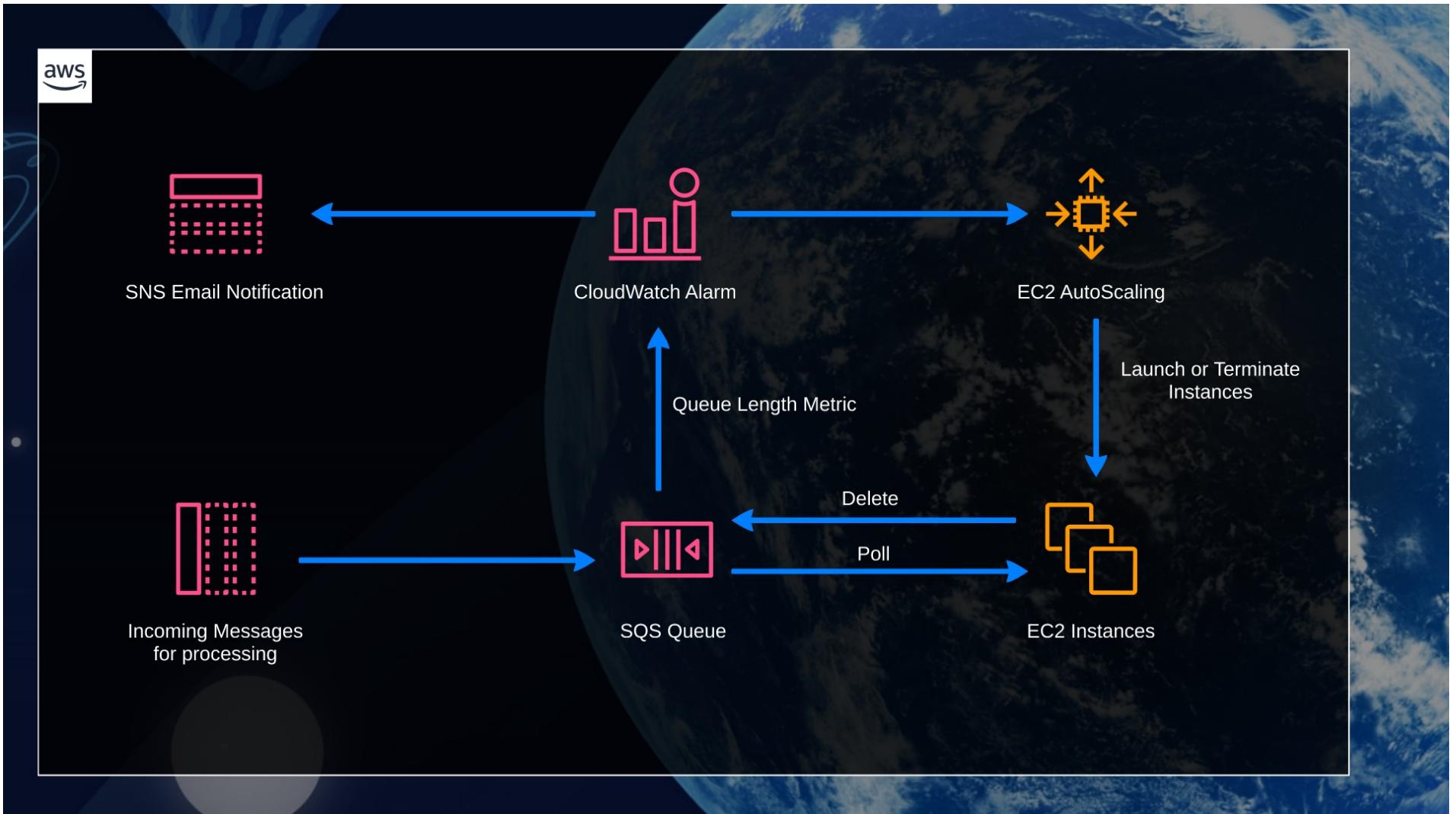
Simple Queue
Service (SQS)

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Customer Engagement



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Customer Engagement



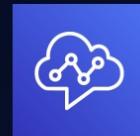
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Connect



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Customer Engagement



Amazon
Connect

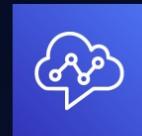


Amazon
Pinpoint



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Customer Engagement



Amazon Connect



Amazon Pinpoint



Simple Email Service (SES)

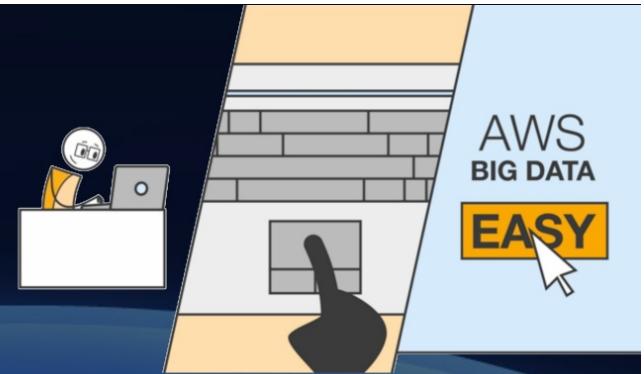


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Analytics



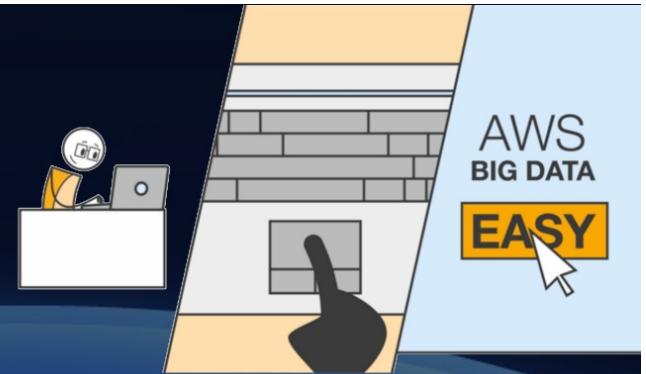
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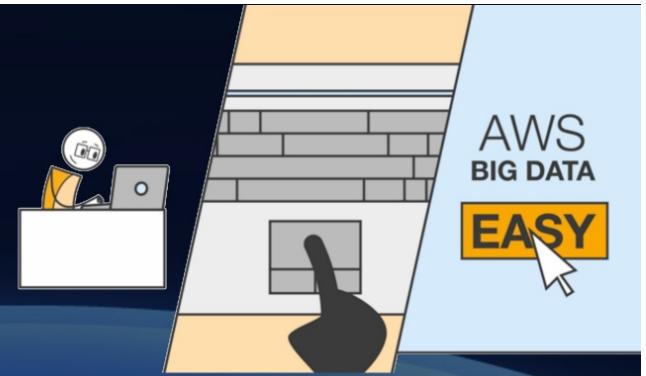
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Amazon EMR



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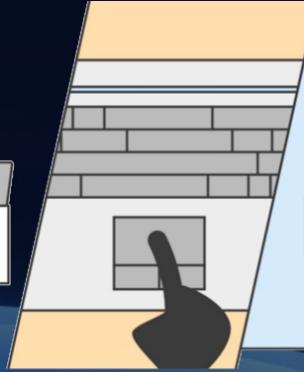
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CloudSearch



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BIG DATA
EASY

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Amazon EMR



Athena



FinSpace



Kinesis



QuickSight



CloudSearch



Amazon OpenSearch
(previously
Elasticsearch)

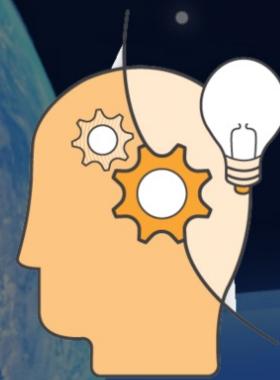


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Machine Learning



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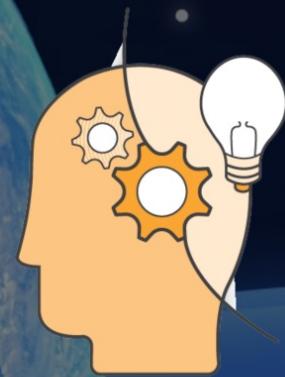




Machine Learning



DeepLens



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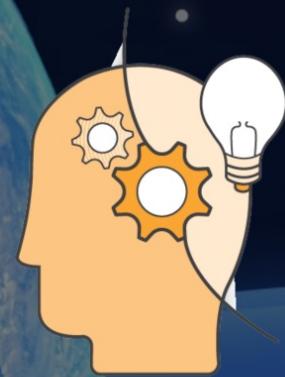
Machine Learning



DeepLens



SageMaker



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Machine Learning



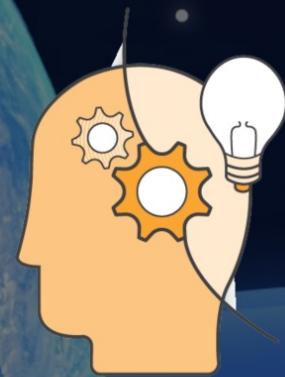
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SageMaker



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Machine Learning



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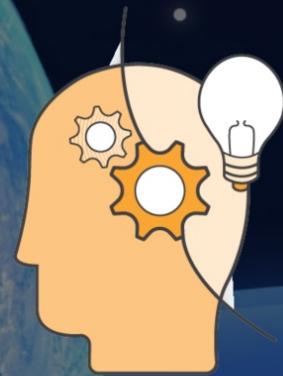
SageMaker



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Rekognition



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Lex



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Machine Learning



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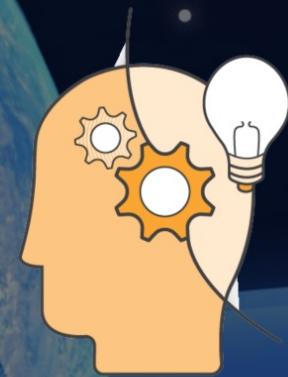
SageMaker



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Amazon
Polly



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Machine Learning



DeepLens



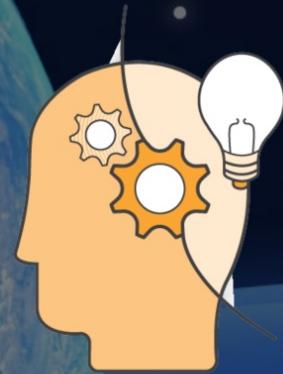
SageMaker



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Rekognition



Amazon
Lex



Amazon
Polly



Comprehend

Machine Learning



DeepLens



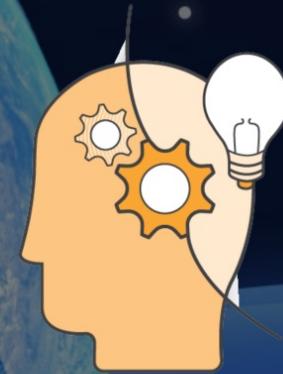
SageMaker



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Polly



Comprehend



Translate



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Machine Learning



DeepLens



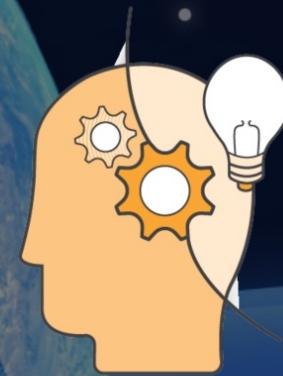
SageMaker



Amazon
Rekognition



Amazon
Lex



Amazon
Polly



Comprehend



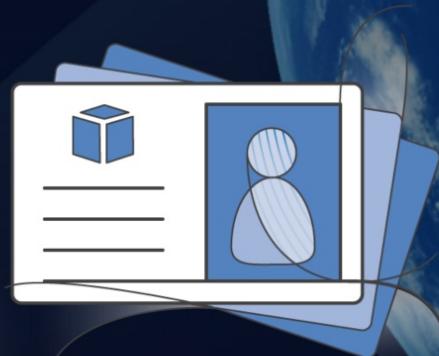
Translate



Transcribe



Security, Identity & Compliance



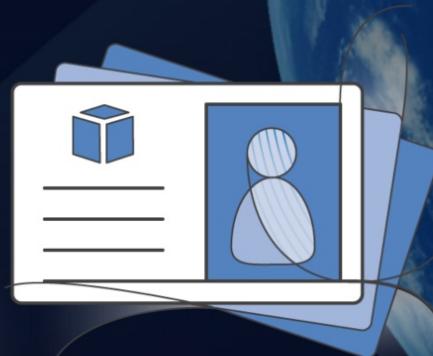
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AWS
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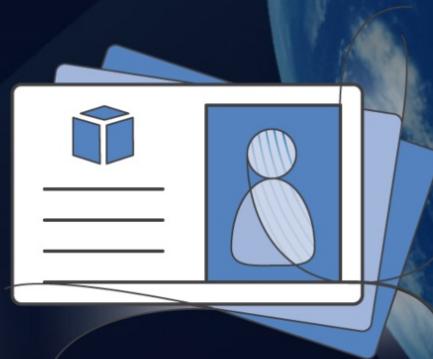
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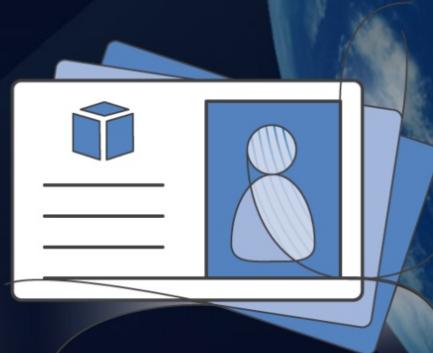
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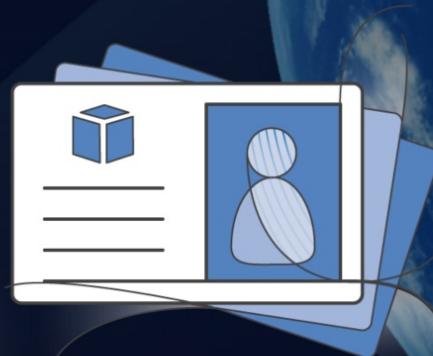
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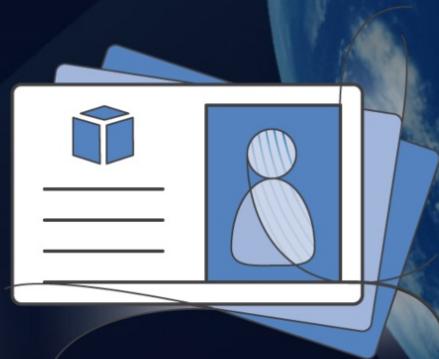
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CloudHSM



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CloudHSM



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Identity and
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Management
(IAM)



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Security, Identity & Compliance



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Artifact



AWS
Certificate
Manager



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CloudHSM



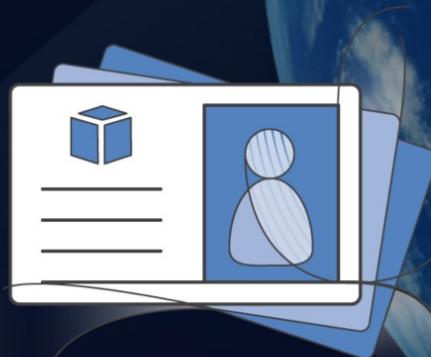
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Identity and
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Management
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Security, Identity & Compliance



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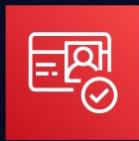
Amazon
Cloud
Directory



AWS
Directory
Service



CloudHSM



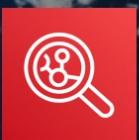
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Identity and
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(IAM)



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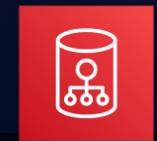
Security, Identity & Compliance



AWS
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AWS
Certificate
Manager



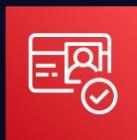
Amazon
Cloud
Directory



AWS
Directory
Service



CloudHSM



Cognito



Identity and
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Management
(IAM)



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Key
Management
Service (KMS)

Security, Identity & Compliance



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CloudHSM



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Identity and
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AWS Shield



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AWS Shield



Web Application
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Mobile Services



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Mobile Services



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AWS Migration Services



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Discovery
Service

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AWS Migration Services



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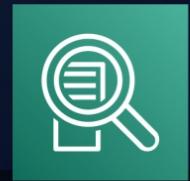


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Migration
Service

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AWS Migration Services



AWS
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Discovery
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AWS Database
Migration
Service



AWS Server
Migration
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AWS Migration Services



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Discovery
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AWS Database
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AWS Snowball



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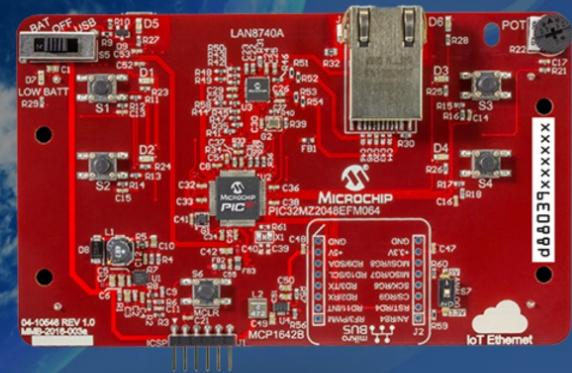


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Internet of Things (IoT)



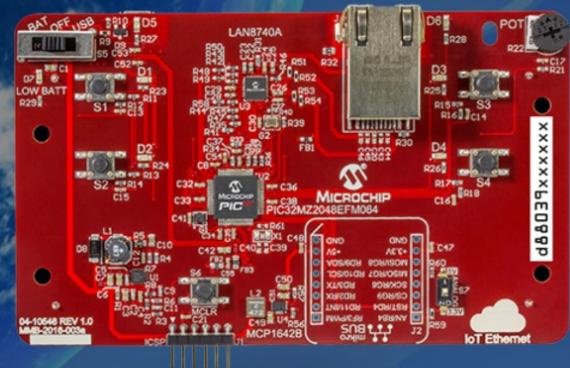
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Internet of Things (IoT)



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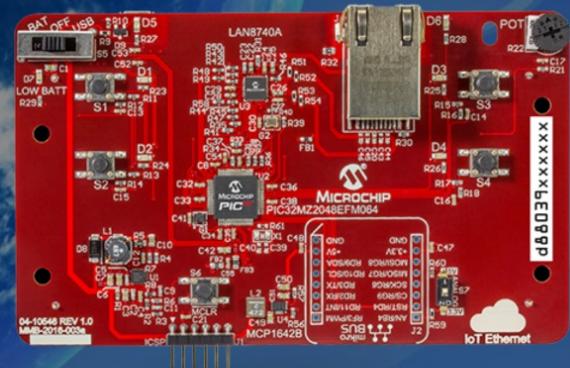
Internet of Things (IoT)



AWS IoT



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Internet of Things (IoT)



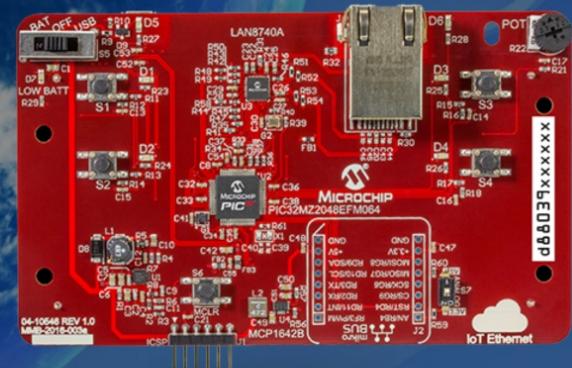
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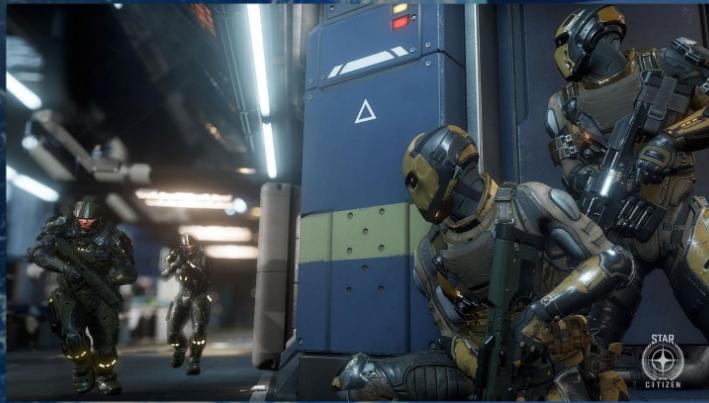
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Game Development



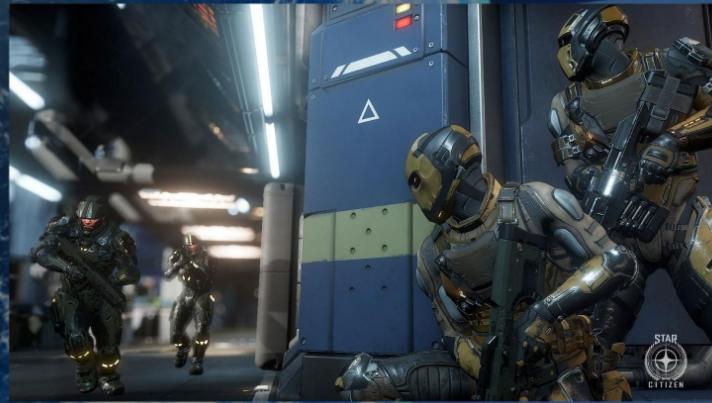
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Game Development



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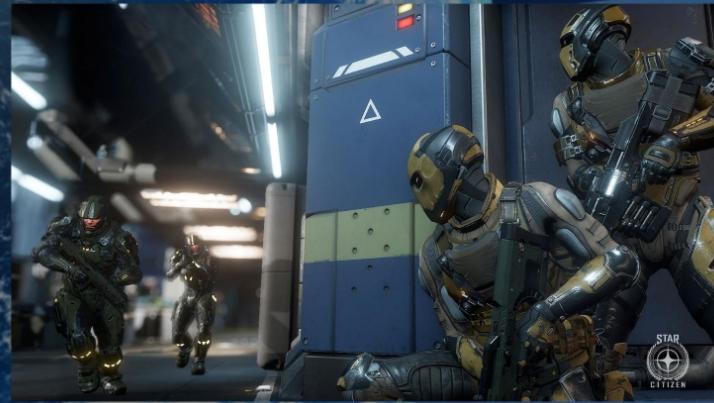
Game Development



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