

Introduction to aws





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Introduction to aws



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Introduction to aws



What will we talk about?

ooo

- ooooooo



Workshop Goals

By the end of the workshop you should...

- **Have a better understanding of cloud computing and AWS**
- **Have first-hand experience with the AWS Console and some of the services**
- **Have the resources to continue learning and understand certification paths**



What is the Cloud?

A simple definition of Cloud Computing





Introduction to **aws**




Introduction to **aws**



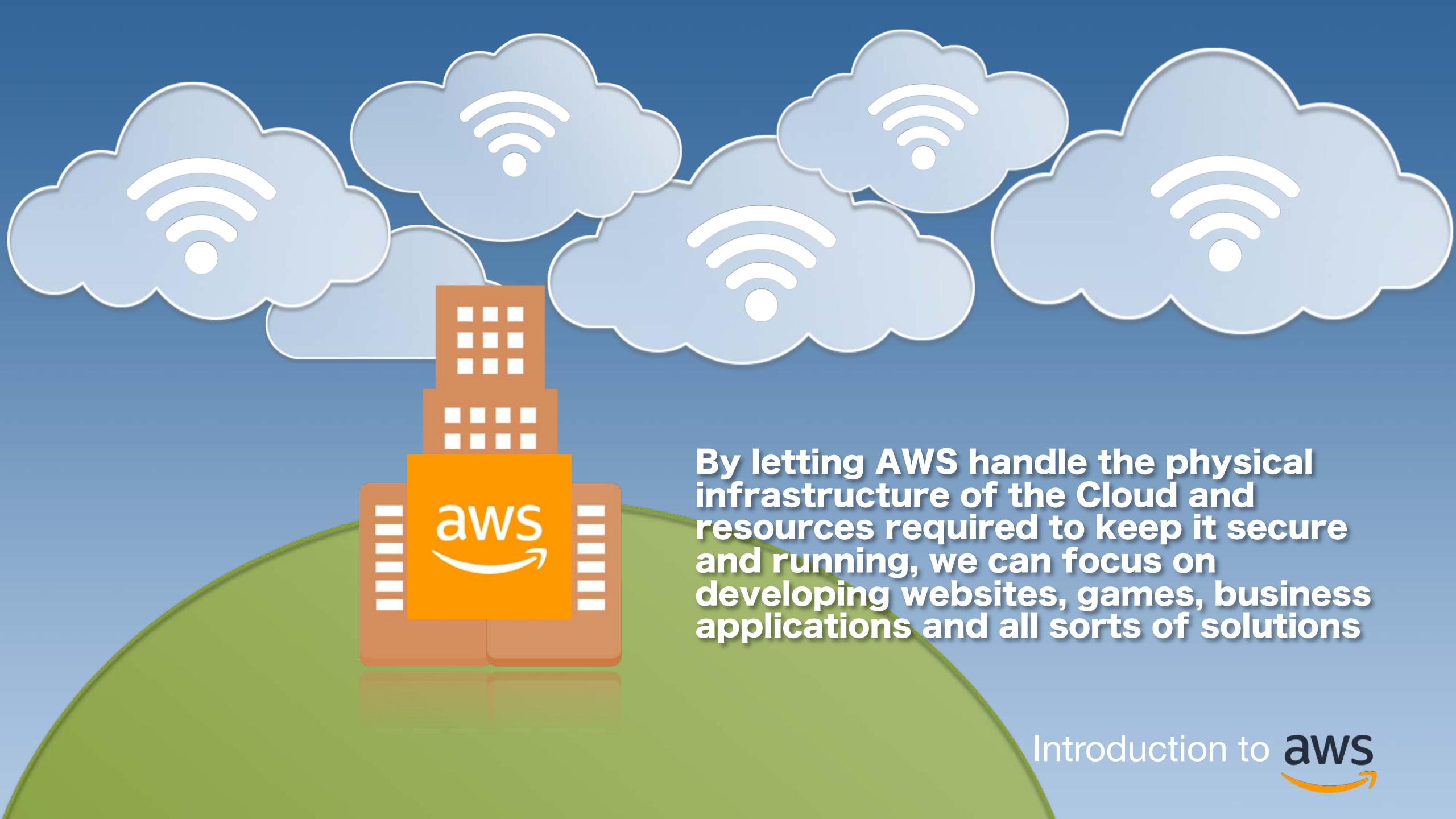
Hello AWS!

AWS is Amazon's Cloud Computing offering





Introduction to **aws**



By letting AWS handle the physical infrastructure of the Cloud and resources required to keep it secure and running, we can focus on developing websites, games, business applications and all sorts of solutions



OK, but what is AWS?

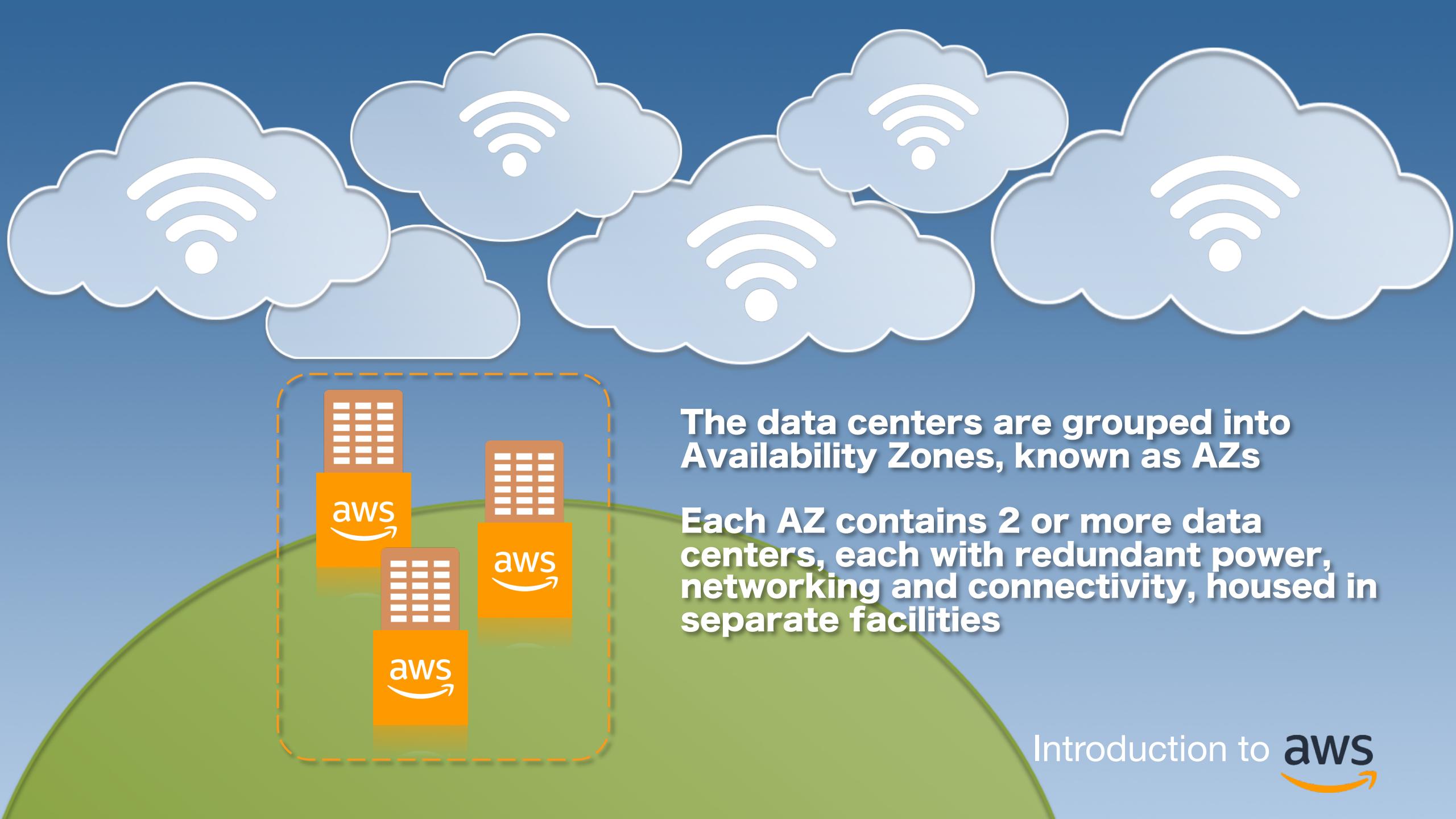
AWS is a global network of computing power!





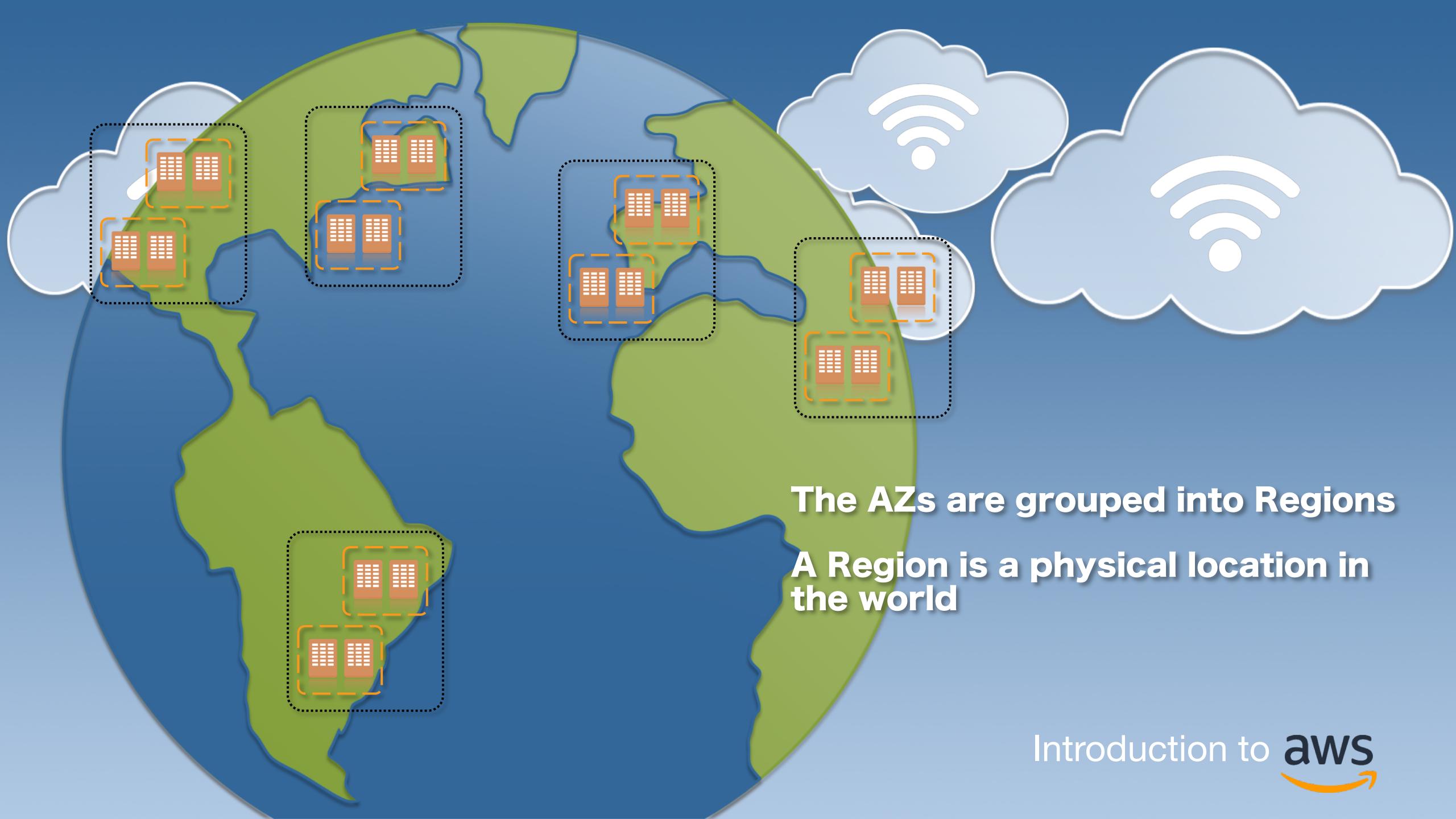
The AWS Cloud infrastructure is made up of secure facilities built around the world

These facilities contain data centers



The data centers are grouped into Availability Zones, known as AZs

Each AZ contains 2 or more data centers, each with redundant power, networking and connectivity, housed in separate facilities



The AZs are grouped into Regions
A Region is a physical location in the world



<https://aws.amazon.com/what-is-aws/>

Introduction to **aws**



The Services Part

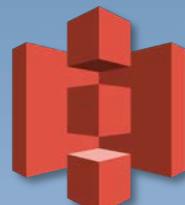
It's services! A collection of services!



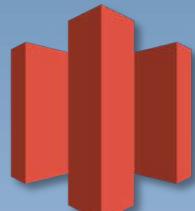
Storage

Compute

Database



Amazon
S3



Amazon
Glacier



AWS Lambda



Amazon EC2



Elastic Load
Balancing*



Amazon
RDS



Amazon
DynamoDB

AWS Documentation

Find user guides, developer guides, API references, tutorials, and more

Guides and API References

Compute

[AWS Batch](#)
[Amazon EC2](#)
[Amazon ECR](#)
[Amazon ECS](#)
[Amazon EKS](#)
[AWS Elastic Beanstalk](#)
[AWS Lambda](#)
[Amazon Lightsail](#)
[AWS Serverless](#)
[Application Repository](#)
[Amazon VPC](#)

Storage

[Amazon EBS](#)
[Amazon EFS](#)
[Amazon Glacier](#)
[Amazon S3](#)
[AWS Snowball](#)
[AWS Storage Gateway](#)

Database

[Amazon Aurora](#)
[Amazon DynamoDB](#)
[Amazon ElastiCache](#)
[Amazon Neptune](#)
[Amazon RDS](#)

Developer Tools

[AWS Cloud9](#)
[AWS CodeBuild](#)
[AWS CodeCommit](#)
[AWS CodeDeploy](#)
[AWS CodePipeline](#)
[AWS CodeStar](#)
[AWS Tools & SDKs](#)
[AWS X-Ray](#)

Management Tools

[AWS Auto Scaling](#)
[AWS CloudFormation](#)
[AWS CloudTrail](#)
[Amazon CloudWatch](#)
[AWS Command Line Interface](#)
[AWS Config](#)
[Amazon Data Lifecycle Manager](#)
[AWS Health](#)
[AWS Management Console](#)
[AWS OpsWorks](#)
[AWS Service Catalog](#)
[AWS Systems Manager](#)
[AWS Tools for Windows Powershell](#)
[Trusted Advisor](#)

Media Services

Analytics

[Amazon Athena](#)
[Amazon CloudSearch](#)
[AWS Data Pipeline](#)
[Amazon Elasticsearch Service](#)
[Amazon EMR](#)
[AWS Glue](#)
[Amazon Kinesis](#)
[Amazon QuickSight](#)
[Amazon Redshift](#)

Security, Identity, & Compliance

[AWS Artifact](#)
[AWS Certificate Manager](#)
[AWS CloudHSM](#)
[Amazon Cognito](#)
[AWS Crypto Tools](#)
[AWS Directory Service](#)
[AWS Firewall Manager](#)
[Amazon Cloud Directory](#)
[Amazon GuardDuty](#)
[Identity & Access Management](#)
[Amazon Inspector](#)
[AWS Key Management Service](#)
[Amazon Macie](#)
[AWS Organizations](#)
[AWS Secrets Manager](#)

AR & VR

[Amazon Sumerian](#)
Customer Engagement
[Amazon Connect](#)
[Amazon Pinpoint](#)
[Amazon Simple Email Service \(SES\)](#)

Game Development

[Amazon GameLift](#)
[Amazon Lumberyard \(Beta\)](#)

SDKs & Toolkits

[AWS Crypto Tools](#)
[AWS Guide for .NET Developers](#)
[AWS SDK for C++](#)
[AWS SDK for Go](#)
[AWS SDK for Java](#)
[AWS SDK for JavaScript](#)
[AWS SDK for .NET](#)
[AWS SDK for PHP](#)
[AWS SDK for Python \(Boto 3\)](#)
[AWS SDK for Ruby](#)
[AWS Toolkit for Eclipse](#)
[AWS Toolkit for Visual Studio](#)
[AWS Tools for Visual Studio Team Services](#)

View All Services



Well documented!

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

Introduction to 



Services

Resource Groups



LearnAWS

N.

AWS services

Find a service by name or feature (for example, EC2, S3 or VM, storage).



> Recently visited services

vron All services

Compute

- EC2
- Lightsail ↗
- Elastic Container Service
- EKS
- Lambda
- Batch
- Elastic Beanstalk

Storage

- S3
- EFS
- Glacier
- Storage Gateway

Database

- RDS
- DynamoDB
- ElastiCache
- Neptune

Management Tools

- CloudWatch
- AWS Auto Scaling
- CloudFormation
- CloudTrail
- Config
- OpsWorks
- Service Catalog
- Systems Manager
- Trusted Advisor
- Managed Services

Media Services

- Elastic Transcoder
- Kinesis Video Streams
- MediaConvert
- MediaLive
- MediaPackage
- MediaStore
- MediaTailor

Mobile Services

- Mobile Hub
- AWS AppSync
- Device Farm
- Mobile Analytics

AR & VR

- Amazon Sumerian

Application Integration

- Step Functions
- Amazon MQ
- Simple Notification Service
- Simple Queue Service
- SWF

Customer Engagement

- Amazon Connect
- Pinpoint

Helpful tips



Manage your costs
Monitor your AWS cost reservations using AWS



Create an organization
Use AWS Organizations management of multiple now

Explore AWS

Machine Learning with Amazon
The fastest way to build, train, and models. [Learn more. ↗](#)

Amazon Relational Database
RDS manages and scales your data supports Aurora, MySQL, PostgreSQL and SQL Server. [Learn more. ↗](#)

AWS Fargate Runs Containers
AWS Fargate works with Amazon



The AWS Management Console

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

Introduction to



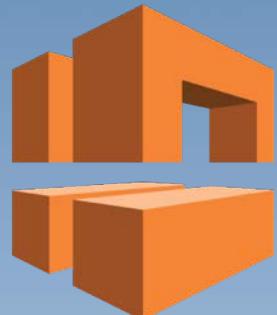
Compute

Compute

Compute



Amazon EC2



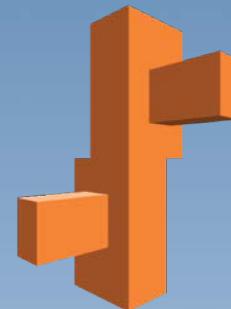
Amazon VPC



AWS Lambda



Elastic Load
Balancing



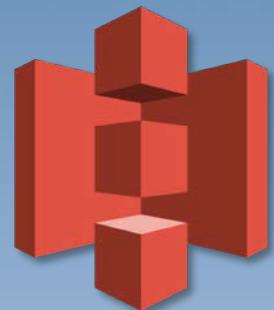
AWS Elastic
Beanstalk



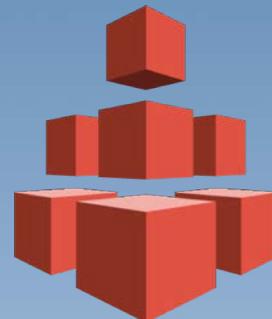
Storage

Storage

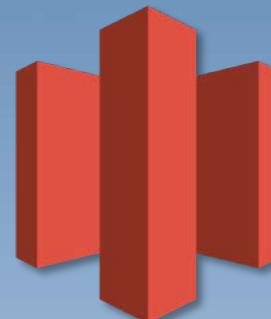
Storage



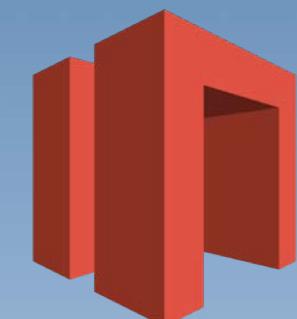
Amazon S3



Amazon EFS



Amazon Glacier



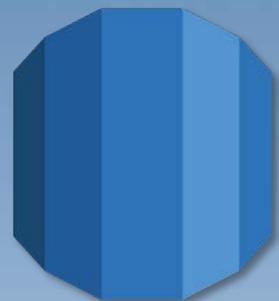
AWS Storage
Gateway



Database

Database

Database



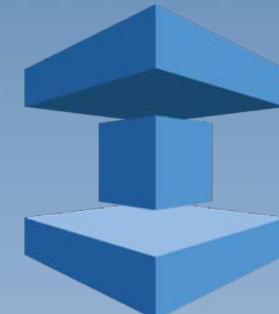
Amazon RDS



Amazon
DynamoDB



Amazon
DynamoDB
Accelerator



Amazon
ElasticCache

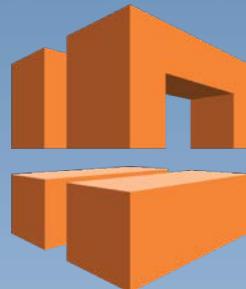
Introduction to 

Networking

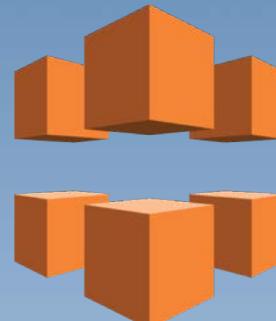
&

Content

Delivery



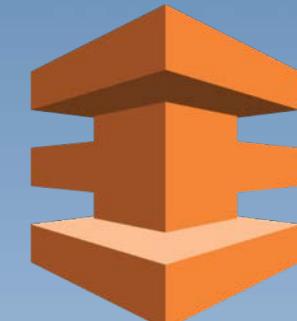
Amazon VPC



Amazon
CloudFront



Amazon
Route 53



AWS Direct
Connect



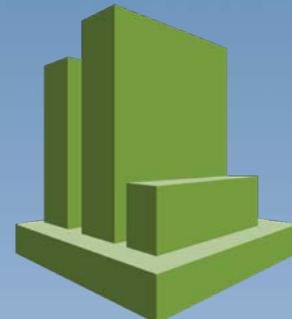
Elastic Load
Balancing

The background features a blue gradient with five white cloud icons of varying sizes. Each cloud contains a white Wi-Fi signal icon. The clouds are positioned at the top left, top center, top right, middle left, and middle right.

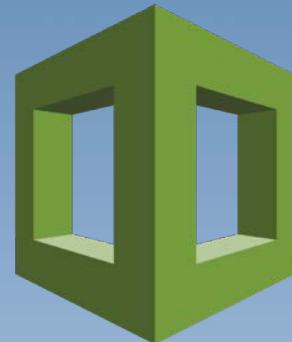
**Management
Tools**

**Management
Tools**

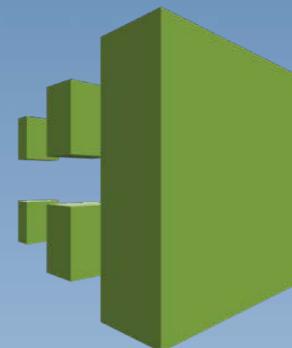
**Management
Tools**



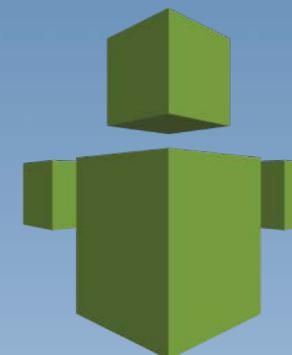
Amazon
CloudWatch



AWS
CloudFormation



AWS
CloudTrail



AWS Trusted
Advisor

Introduction to 



I want access!

The Free Tier Account





A tutorial

Launch a WordPress Site





Next steps

Continue your AWS journey





Thank you!

Introduction to **aws**


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Resources

AWS Console - <https://console.aws.amazon.com/>

AWS Free Tier Account - <https://aws.amazon.com/free/>

AWS Documentation - <https://aws.amazon.com/documentation/>

AWS Getting Started - <https://aws.amazon.com/getting-started/>

AWS Certification - <https://aws.amazon.com/certification/>

AWS White Papers - <https://aws.amazon.com/whitepapers/>

Icons used in this presentation - aws.amazon.com/architecture/icons/

Presentation slides -