



BATCH : BATCH 85
LESSON : AWS
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SUBJECT : INTRODUCTION TO AWS



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What is AWS?





Introduction to AWS

What is AWS ?

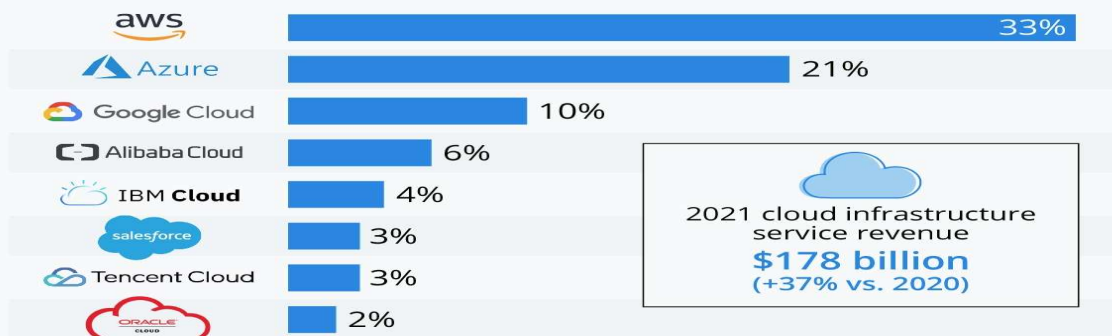
- ✔ AWS stands for Amazon Web Services that offers various IT services on demand using distributed IT infrastructure and offers flexible, reliable, scalable, and cost-effective cloud computing solutions.
- ✔ Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform, offering **nearly 200** fully-featured services from data centers globally.



Introduction to AWS

Amazon Leads \$180-Billion Cloud Market

Worldwide market share of leading cloud infrastructure service providers in Q4 2021*



* includes platform as a service (PaaS) and infrastructure as a service (IaaS) as well as hosted private cloud services
Source: Synergy Research Group



statista

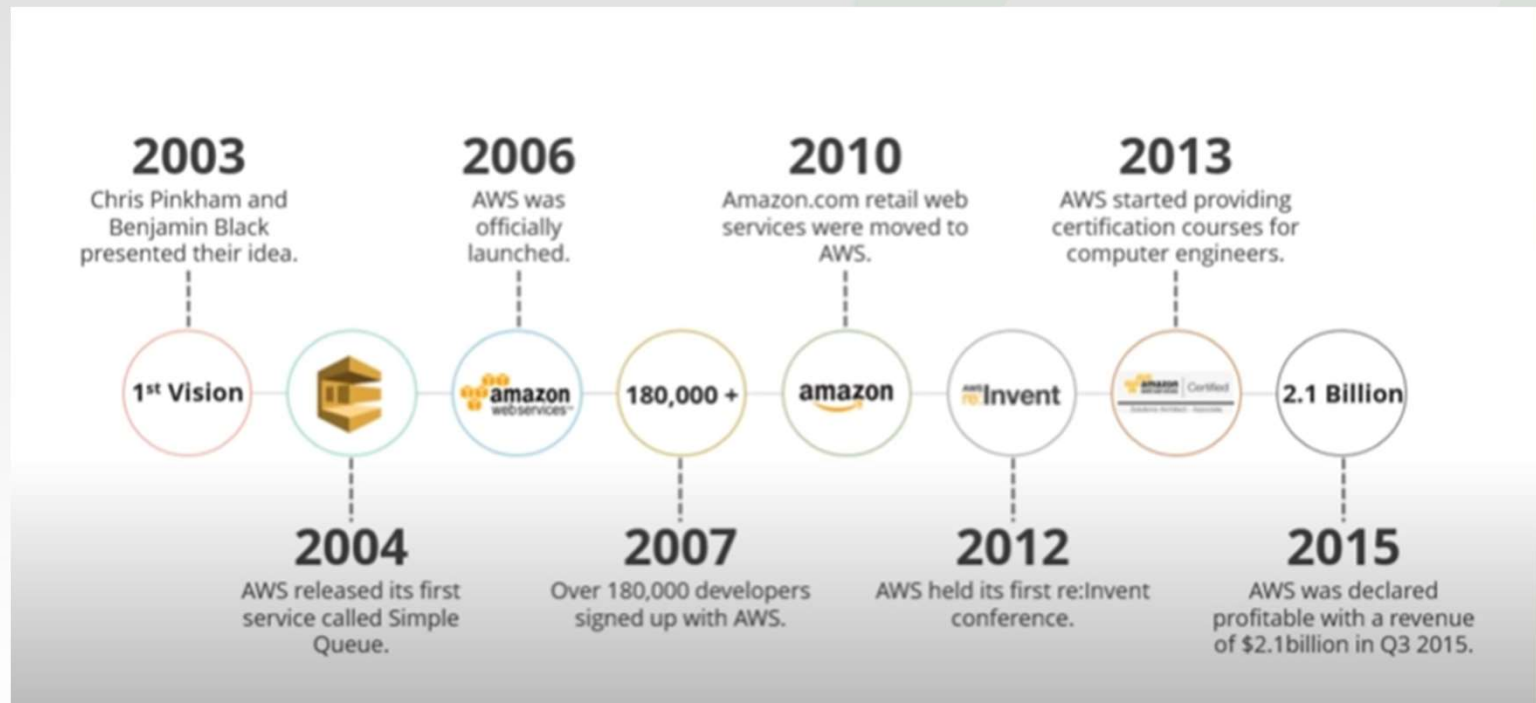


History of AWS



Introduction to AWS

History of AWS

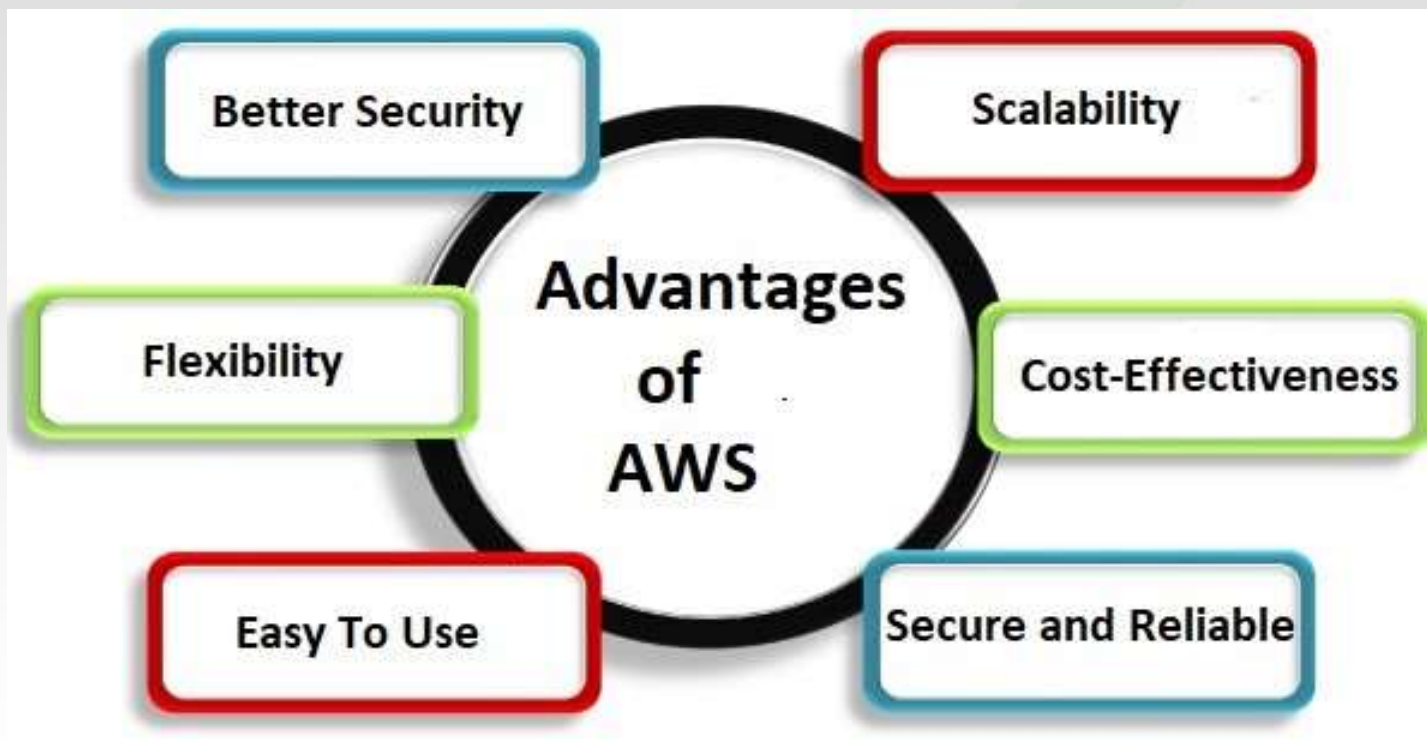




Features of AWS



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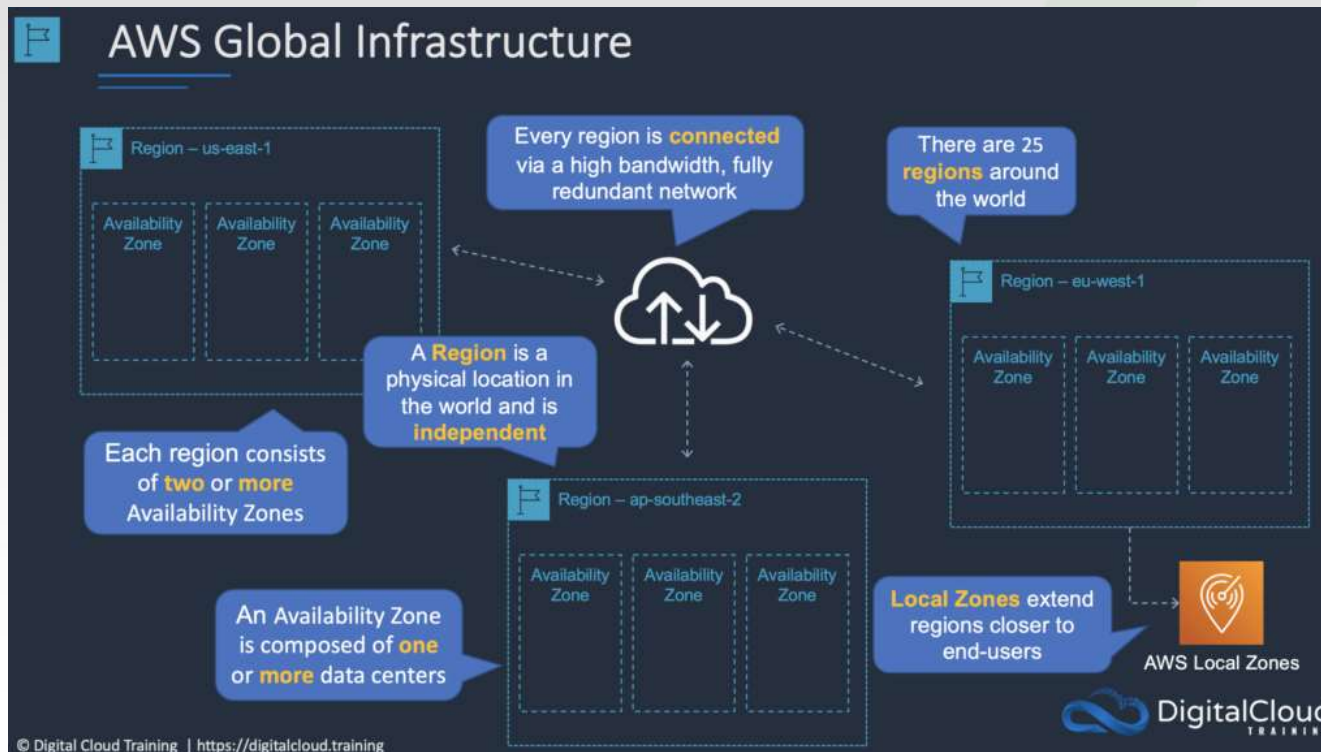


AWS Global Infrastructure



Introduction to AWS

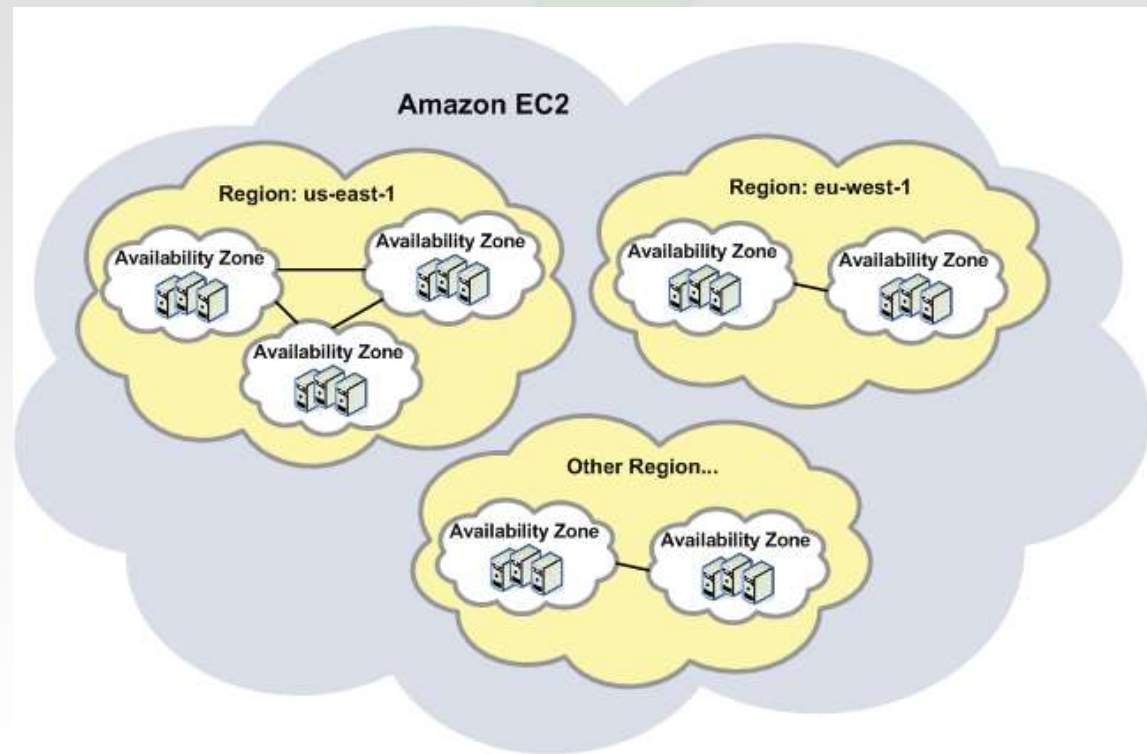
AWS Global Infrastructure





Introduction to AWS

AWS Global Infrastructure





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AWS Global Infrastructure





Introduction to AWS

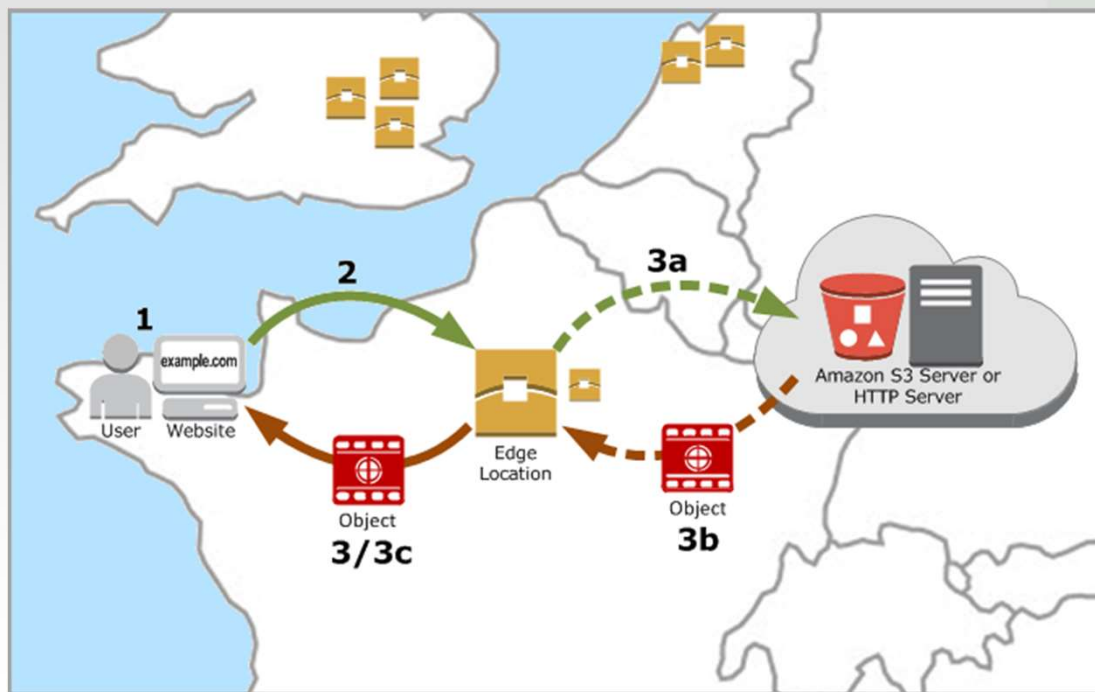
AWS Global Infrastructure





Introduction to AWS

AWS Edge Locations

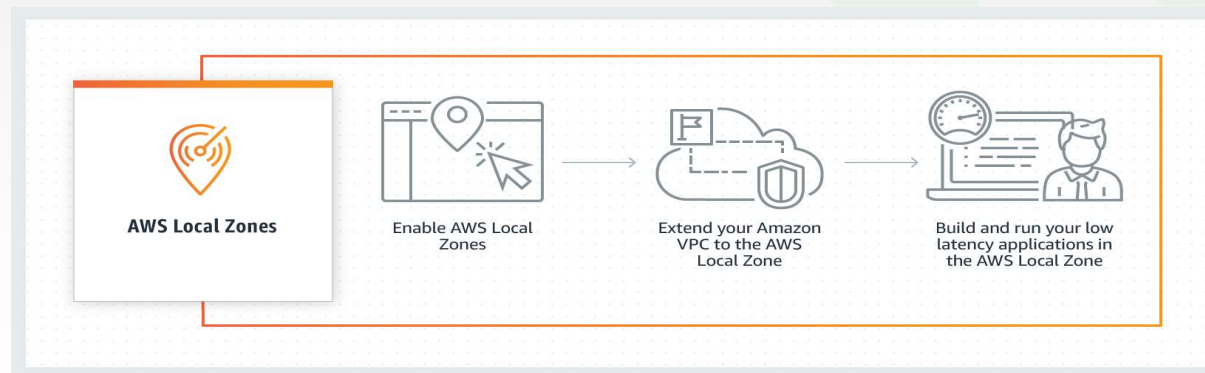




Introduction to AWS

AWS Local Zones

- ✓ AWS Local Zones, you can easily run applications that need single-digit millisecond latency closer to end-users in a specific geography.
- ✓ AWS Local Zones are ideal for use cases such as media & entertainment content creation, real-time gaming, live video streaming, and machine learning inference.





AWS Free Tier



AWS Free Tier



Always free

These free tier offers do not expire and are available to all AWS customers



12 months free

Enjoy these offers for 12-months following your initial sign-up date to AWS



Trials

Short-term free trial offers are available through many different software solutions

- ✔ Services with a **12-month Free Tier** allow customers to use the product for free up to specified limits for one year from the date the account was created.
- ✔ Services with an **Always Free** offer allow customers to use the product for free up to specified limits as long as they are an AWS customer.
- ✔ Services with a **short term trial** are free to use for a specified period of time or up to a one-time limit depending on the service selected.



Introduction to AWS

The AWS Free Tier provides customers the ability to explore and try out AWS services free of charge up to specified limits for each service. You can explore more than **85 products** and start building on AWS using the free tier.

A screenshot of the AWS Free Tier landing page. The top navigation bar is dark blue with the AWS logo on the left and links for re:Invent, Products, Solutions, Pricing, Documentation, Learn, Partner Network, AWS Marketplace, Customer Enablement, Events, and Explore More on the right. Below this is a light blue sub-navigation bar with links for AWS Free Tier, Overview, FAQs, and Terms and Conditions. The main content area has a dark blue background with the text 'AWS Free Tier' in large white font, followed by 'Gain free, hands-on experience with the AWS platform, products, and services' in smaller white font. At the bottom is a yellow button with the text 'Create a Free Account'.



Introduction to AWS

AWS FREE TIER Billing Policy

- To avoid charges while on the Free Tier, you must keep your usage below the Free Tier limits.
 - ✔ You are charged for any usage that exceeds the limits.
 - ✔ To help you stay within the limits, you can track your Free Tier usage and *set a billing alarm to notify* you if you start incurring charges.
 - ✔ If your application use exceeds the free tier limits, you simply pay standard, pay-as-you-go service rates.
 - ✔ AWS Free Tier is applied to your monthly usage. It will expire on the 1st day of each month and does not accumulate.
- You can see current and past usage activity by service and region by logging into your account and going to the **Billing & Cost Management** Dashboard.



Free Tier Limits:

| | | |
|--|--|---|
| <div><div>COMPUTE</div><div>Free Tier12 MONTHS FREE</div><div>Amazon EC2</div><div>750 Hours</div><div>per month</div><div>Resizable compute capacity in the Cloud.</div><div>750 hours per month of Linux, RHEL, or SLES t2.micro or t3.micro instance dependent on region</div><div>750 hours per month of Windows t2.micro or t3.micro instance dependent on region</div><div>^</div></div> | <div><div>STORAGE</div><div>Free Tier12 MONTHS FREE</div><div>Amazon S3</div><div>5 GB</div><div>of standard storage</div><div>Secure, durable, and scalable object storage infrastructure.</div><div>5 GB of Standard Storage</div><div>v</div></div> | <div><div>DATABASE</div><div>Free Tier12 MONTHS FREE</div><div>Amazon RDS</div><div>750 Hours</div><div>per month of db.t2.micro database usage (applicable DB engines)</div><div>Managed Relational Database Service for MySQL, PostgreSQL, MariaDB, Oracle BYOL, or SQL Server.</div><div>v</div></div> |
| <div><div></div><div>Amazon DynamoDB</div><div>25 GB</div><div>of storage</div><div>Fast and flexible NoSQL database with seamless scalability.</div><div>25 GB of Storage</div></div> | <div><div>MACHINE LEARNING</div><div>Free TierFREE TRIAL</div><div>Amazon SageMaker</div><div>250 Hours</div><div>per month of t2.medium notebook usage for the first two months</div><div>Fully managed platform to build, train, and deploy machine learning models.</div></div> | <div><div>COMPUTE</div><div>Free TierALWAYS FREE</div><div>AWS Lambda</div><div>1 Million</div><div>free requests per month</div><div>Compute service that runs your code in response to events and automatically manages the compute resources.</div></div> |



AWS Certification

Professional

Two years of comprehensive experience designing, operating, and troubleshooting solutions using the AWS Cloud

Associate

One year of experience solving problems and implementing solutions using the AWS Cloud

Foundational

Six months of fundamental AWS Cloud and industry knowledge



Specialty

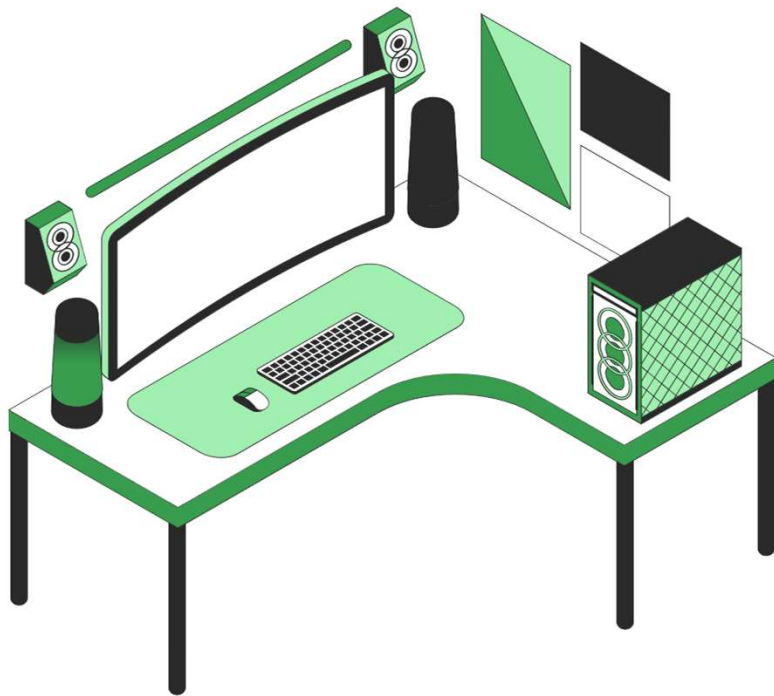
Technical AWS Cloud experience in the Specialty domain as specified in the exam guide





AWS Billing Alarm





Do you have any questions?

Send it to us! We hope you learned something new.



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