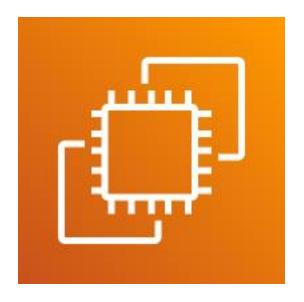


What You'll Learn Today

- What is Cloud Computing, and why it plays an important role in todays world.
- What is Amazon Web Services and key concepts of Cloud Computing.
- You'll learn what is Amazon Identity Access Manager (IAM) to keep your AWS accounts protected.
- You'll learn about Amazon Elastic Cloud Compute (EC2) and deploy your own instances.
- You'll deploy your own Minecraft server to play with your friends!
- You'll learn about Network Monitoring using the AWS CloudWatch service





About Me

- 2x Intern at USAA
- Incoming Software Engineer Analyst at BNY
- Certified AWS Cloud Practitioner







What is Cloud Computing?



"the practice of using a network of remote servers hosted on the internet to store, manage, and process data, rather than a local server or a personal computer." – Oxford Dictionary

Some of the most popular Cloud providers are:

- Azure (Microsoft)
- Google Cloud
- Amazon Web Services

Why is it Relevant in the Industry Today?



Scalability & Cost Efficiency – Cloud computing allows businesses to scale resources up or down based on demand, reducing the need for expensive on-premise infrastructure and lowering operational costs.



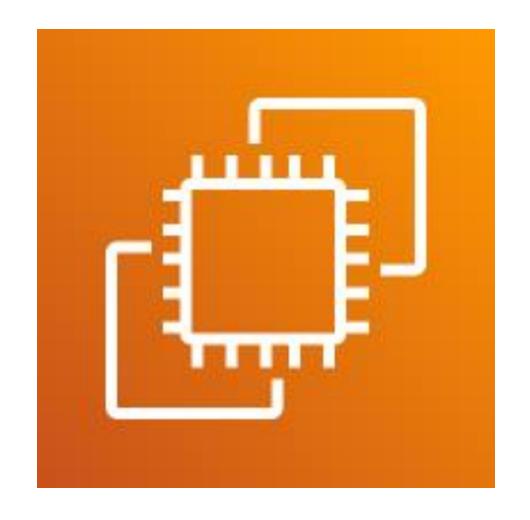
Flexibility & Remote Access – Cloud services enable employees to access data and applications from anywhere, supporting remote work, global collaboration, and real-time updates.



Security & Reliability – Leading cloud providers offer robust security measures, automated backups, and high availability, ensuring business continuity and data protection.

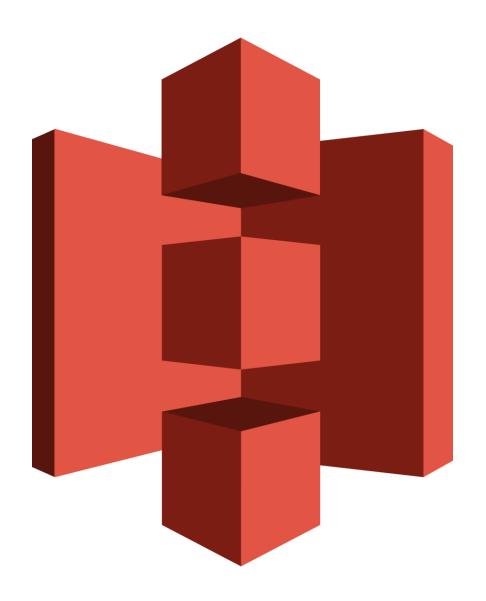
Amazon Elastic Cloud Compute (EC2)

- Virtual servers in the cloud that allow users to run applications without managing physical hardware.
- Provides flexible compute capacity with various instance types optimized for different workloads.
- Supports auto-scaling, load balancing, and pay-as-yougo pricing for cost efficiency.



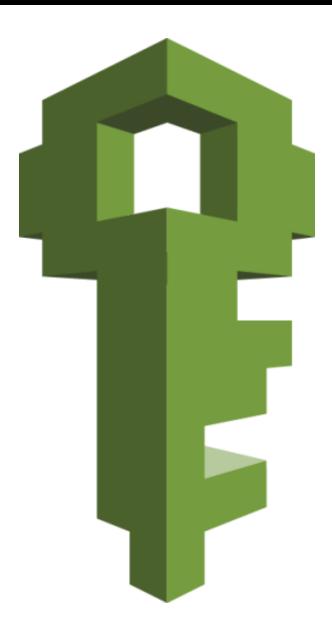
Amazon Simple Storage Service (S3)

- Scalable object storage for storing and retrieving data, such as files, backups, and media.
- Offers high durability (99.99999999%) and availability across multiple regions.
- Supports features like versioning, lifecycle policies, and fine-grained access control.



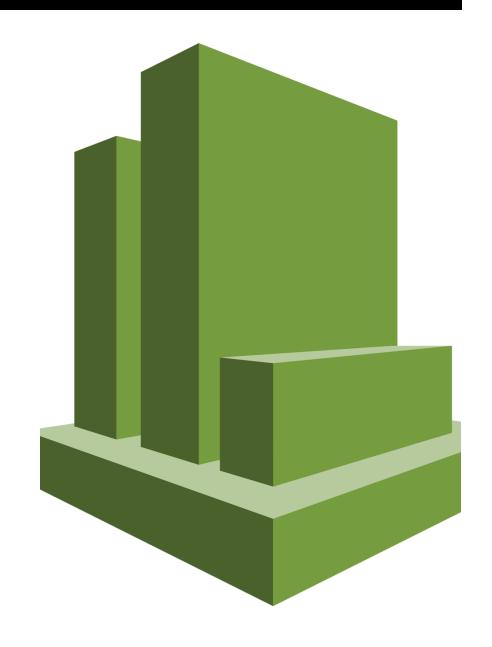
Amazon Identity Access Manager (IAM)

- Manages user access and permissions for AWS resources securely.
- Provides fine-grained access control through policies, roles, and user groups.
- Supports multi-factor authentication (MFA) and federated access for enhanced security.



Monitoring Metrics with CloudWatch

- Monitoring and observability service that collects and tracks metrics, logs, and events from AWS resources.
- Enables setting up alarms and automated responses to system performance changes.
- Provides dashboards and insights to analyze application performance and optimize resources.





DO IT YOURSELF! Notes Here





Ideas to add this project to your resume

- •Deployed a Minecraft server on AWS EC2, configuring instance types, security groups, and storage for optimal performance.
- •Implemented CloudWatch monitoring, setting up custom metrics, alarms, and logs to track server performance and uptime. (add numbers to these metrics as you work on it)
- •Optimized server scalability and availability, utilizing auto-recovery features and fine-tuning resource allocation. (perhaps mention the type of AMIs or instance types you used)
- •Configured IAM roles and security groups, ensuring controlled access and secure server management.



If you have more questions related to resumes, send me a message!