Cloud Computing

- IT services accessible over the internet

- These services are provided by Cloud Services Providers such as AWS, Google Cloud Platform, Microsoft Azure

Advantages of Cloud Computing -

1. No heavy lifting

2. Economies of scale

3. Scalability

4. Flexible and instant

5. Pay as-you-go for only what you use

Types of Cloud Computing Services: -

- Infrastructure As A Service (IaaS)

- Platform As A Service (PaaS)

- Software As A Service (SaaS)

Types of Cloud Deployment Models : -

- Fully-Cloud

- Hybrid

- On-premises (Private Cloud)

AWS Certifications-

Foundational - Cloud Practitioner - $100

Developing - DevOps Associate - $150, DevOps Professional - $300

Architecting - Solutions Architect Associate, Solutions Architect Professional

SysOps - SysOps Associate

Speciality - Big Data, Security, Networking, Alexa Skill Builder - $300

Exam Blue Print of Developer Associate

- 130 minutes

- 65 questions

- Multiple choice ( one correct answer ), multiple response ( more than one correct answers)

- $150 - 10500(approx.)

- Situation Based Questions

Why AWS?

- AWS is the biggest cloud provider. AWS has market share of more than 50%

- We have more than 140 services available in around 190 countries

- AWS is the highest rated skill because of shortage of cloud experts

- Free Tier to learn most of the services

Shared Responsibility Model

- Customers and AWS have equal responsibility for security of the applications and resources

ISMS - Information Security Management System

We create some procedures and policies for the organisation to protect its information and AWS resources

For example in case of EC2:

AWS’s responsibility -> EC2 infrastructure, data centre, network security

Customer’s responsibility -> EC2 operating system, EBS drive, data at rest, data in transit, data stores, IAM credentials

For providing a role to user

1. Create a role with appropriate permissions

For eg :- a role to access s3

2. Create a policy that gives permission to assume the above created role

- Use STS (Security Token Service) service and provide AssumeRole permission

- Use ARN(Amazon Resource Name) of above created role to restrict access of this policy

3. Attach this policy to the user

t2.micro

24 credits / hr

1 credit -> 100% core utilisation

instance can run for 6 mins only if 100% utilisation

24 \* 2.5 = 60 mins

100 /2.5 = 40% performance

Please take this survey

https://goo.gl/forms/QvqfNexKzWiWLHLw2