

This presentation contains slides that introduce the fact finding exercises in the re/Start v2.4 curriculum.



This topic introduces the Python fact finding exercise.



Python fact finding exercise

- 1. Define a **list** and **tuple** in Python. Provide some examples.
- 2. What is a **namespace** in Python?
- 3. What is the difference between a local variable and a global variable?
- 4. What is an IDE? Mention some common IDEs that could be used with Python.
- 5. What are **modules** in Python? Provide some examples.
- 6. What is the difference between an array and a list?
- 7. What are **operators**? Provide some examples.

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This topic introduces the databases fact finding exercise.

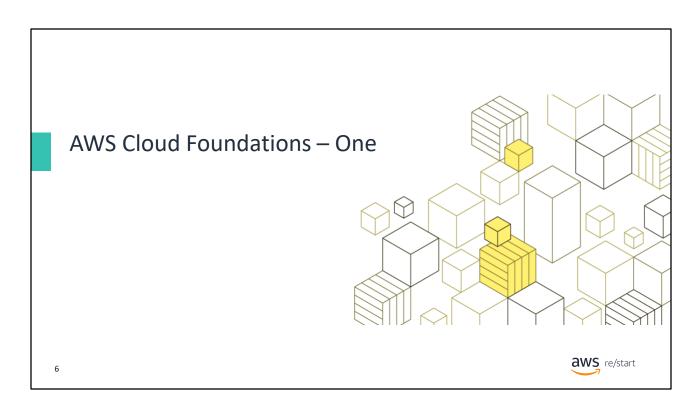


Databases fact finding exercise

- 1. What is the difference between a relational and a non-relational database?
- 2. What are indexes?
- 3. What are primary keys and secondary keys?
- 4. What are inner joins and outer joins?
- 5. What is the difference between **DROP TABLE** and **TRUNCATE TABLE**?
- 6. What are the different data types in SQL?
- 7. Explain the WHERE and HAVING clauses.

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This topic introduces the Cloud Foundations – Part one fact finding exercise.

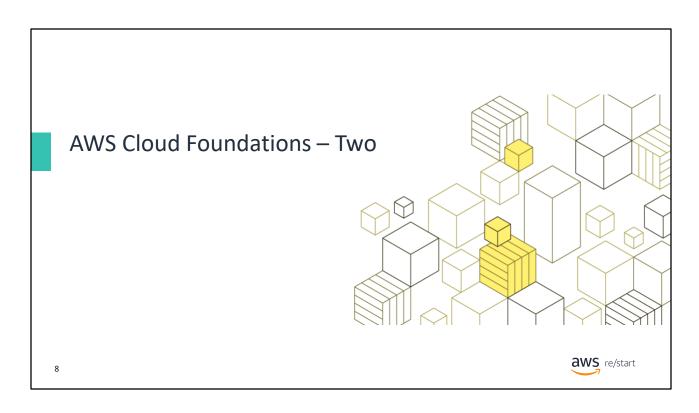


AWS Cloud Foundations – One fact finding exercise

- 1. Define what laaS, PaaS and SaaS is.
- 2. Provide **6 advantages** of cloud computing.
- 3. Define what an AWS region and an Availability Zone is.
- 4. List all the AWS regions.
- 5. What are the categories in which the **AWS services are grouped**?
- 6. What is the difference between **object storage** and **block storage**?
- 7. List two AWS **compute services** and explain them.
- 8. List two AWS **storage services** and explain them.

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This topic introduces the Cloud Foundations – Part two fact finding exercise.

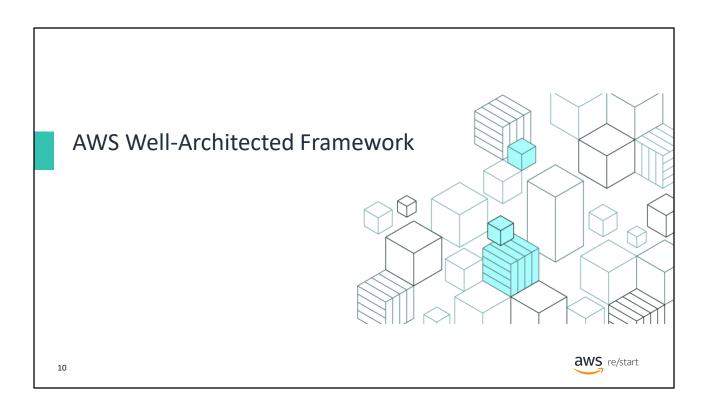


AWS Cloud Foundations – Two fact finding exercise

- 1. Explain the AWS Shared responsibility model.
- 2. Explain an AWS Identity and Access Management (IAM) Role.
- 3. Explain an AWS Identity and Access Management (IAM) Policy.
- 4. Describe an Amazon Machine Image (AMI).
- 5. List the different **Amazon EC2 instance types** with use cases for each type.
- 6. Explain Amazon Virtual Private Cloud (VPC).
- 7. Differentiate between a **Public** and a **Private** subnet.

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This topic introduces the AWS Well-Architected Framework fact finding exercise.

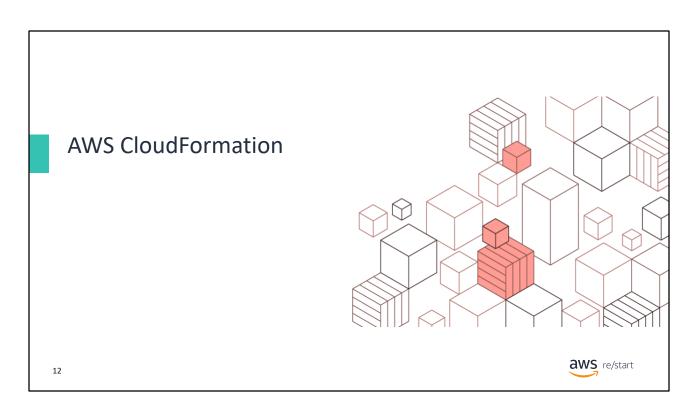


AWS Well-Architected Framework fact finding exercise

- 1. What are the **five pillars** of the Well Architected Framework (WAF)?
- 2. What are the 3 areas of **operational excellence** in the cloud?
- 3. What are the design principles that strengthen system security?
- 4. What are the design principles that increase reliability?
- 5. What are the areas to focus on to achieve **performance efficiency** in the cloud?
- 6. What are the different approaches to using AWS resources in a cost-effective manner?

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This topic introduces the AWS CloudFormation fact finding exercise.



AWS CloudFormation fact finding exercise

- 1. What is **Configuration Orchestration**?
- What is Configuration Management? List some commonly used tools for Configuration Management.
- 3. What is **Continuous Integration**?
- 4. What is **Continuous Delivery**?
- 5. What is AWS CloudFormation? List 3 advantages of CloudFormation.
- 6. What is **JSON** and **YAML**? List 3 differences between them.
- 7. What is a **stack** in AWS CloudFormation?

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This topic introduces the billing fact finding exercise.



AWS Billing fact finding exercise

- 1. List the different types of AWS support plans.
- 2. Explain the AWS **Simple Monthly Calculator**.
- 3. List and explain the different Amazon EC2 pricing models.

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