



Fact-Finding Exercises

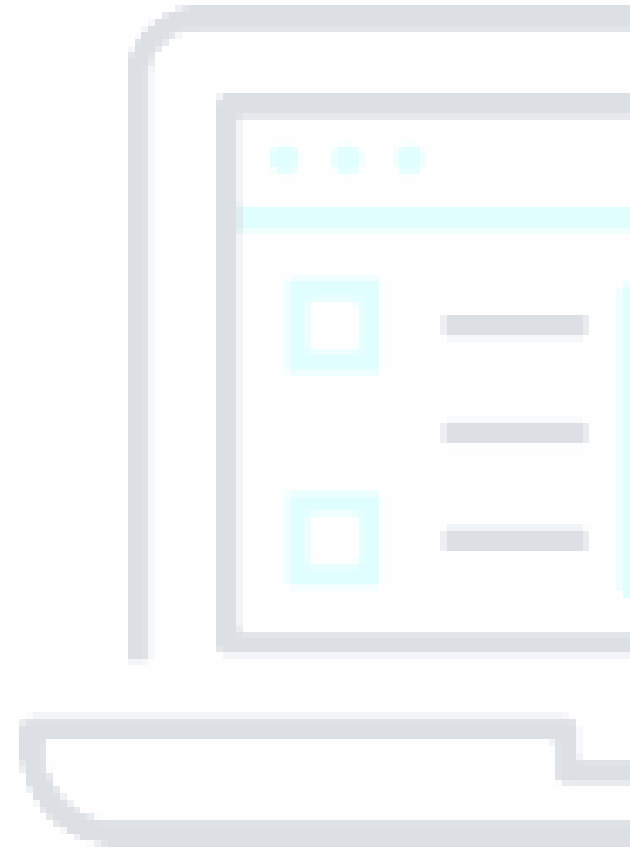


Python

Python fact-finding exercise

Recall what you have learned, and answer the following questions:

1. What are a **list** and **tuple** in Python, and what are 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**, and what are some common IDEs that could be used with Python?
5. What are **modules** in Python, and what are some examples?
6. What is the difference between an **array** and a **list**?
7. What are **operators**, and what are some examples?



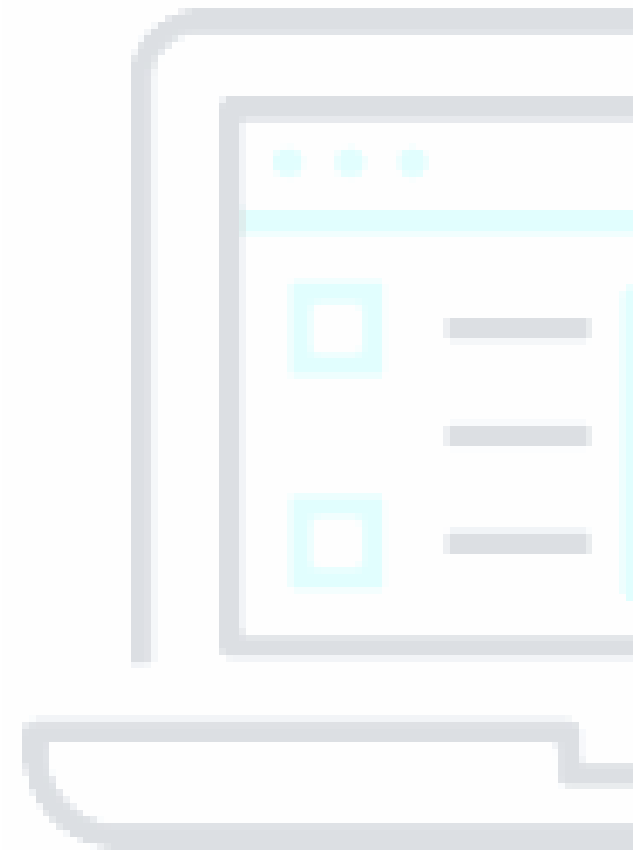


Databases

Databases fact-finding exercise

Recall what you have learned, and answer the following questions:

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. What are the **WHERE** and **HAVING** clauses used for?



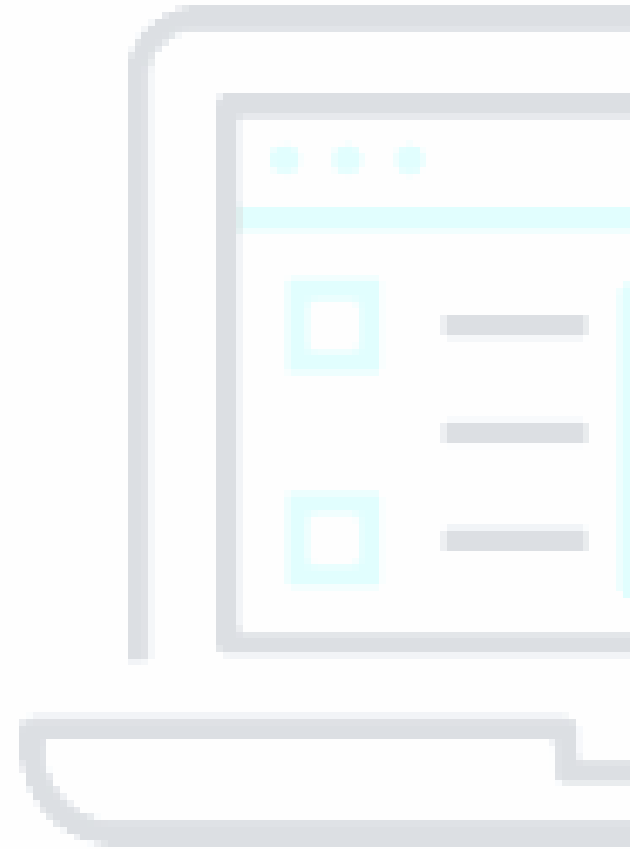


AWS Cloud Foundations Part 1

AWS Cloud Foundations Part 1 fact-finding exercise

Recall what you have learned, and answer the following questions:

1. What are **IaaS**, **PaaS**, and **SaaS**?
2. What are the **advantages** of cloud computing?
3. What is an **AWS Region**?
4. What is an **Availability Zone**?
5. What are all the **AWS Regions**?
6. What are the categories in which the **AWS services are grouped**?
7. What is the difference between **object storage** and **block storage**?
8. What are two AWS **compute services**, and what do these services do?
9. What are two AWS **storage services**, and what do these services do?



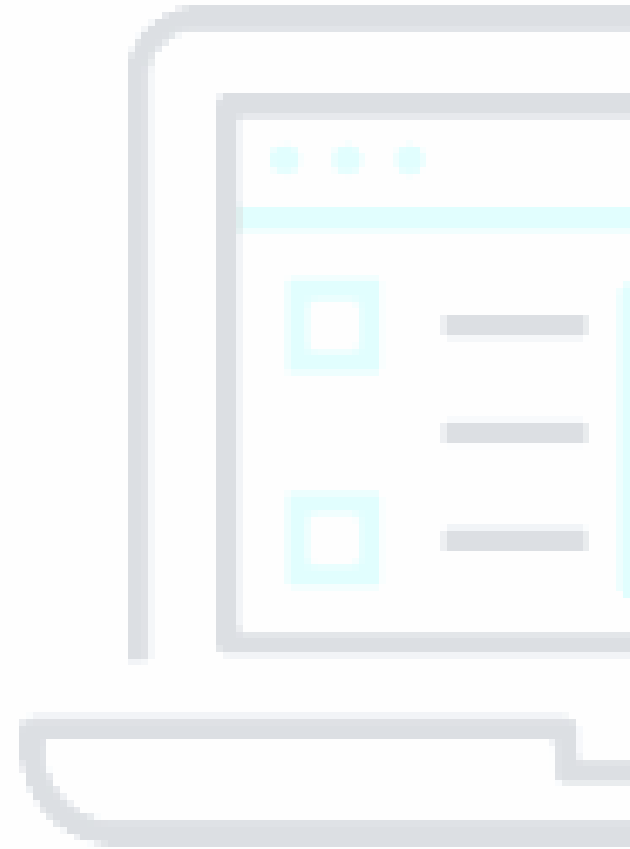


AWS Cloud Foundations Part 2

AWS Cloud Foundations Part 2 fact-finding exercise

Recall what you have learned, and answer the following questions:

1. What is the **AWS shared responsibility model**?
2. What is an **AWS Identity and Access Management (IAM) role**?
3. What is an **IAM policy**?
4. What is an **Amazon Machine Image (AMI)**?
5. What are the different **Amazon EC2 instance types**, and what are use cases for each type?
6. What is a **virtual private cloud (VPC)**?
7. What is the difference between a **public** and a **private** subnet?



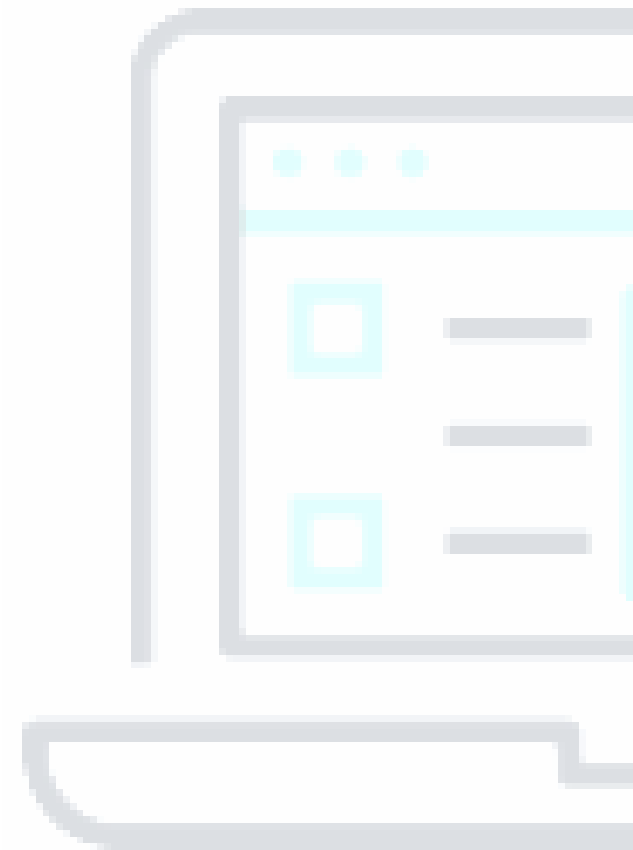


AWS Well-Architected Framework

AWS Well-Architected Framework fact-finding exercise

Recall what you have learned, and answer the following questions:

1. What are the **pillars** of the AWS Well Architected Framework?
2. What are the design principles for **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 factors that influence **performance efficiency** in the cloud?
6. What are the different focus areas for **cost-effective optimization** in the cloud?
7. What are the design principles that support **sustainability** in the cloud?



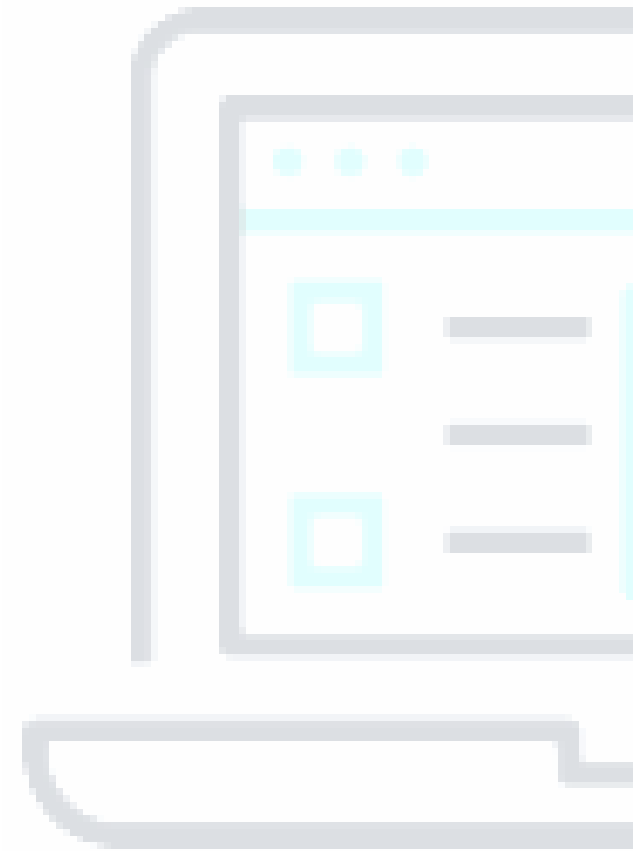


AWS CloudFormation

AWS CloudFormation fact-finding exercise

Recall what you have learned, answer the following questions:

1. What is **configuration orchestration**?
2. What is **configuration management**, and what are some commonly used tools for configuration management?
3. What is **continuous integration**?
4. What is **continuous delivery**?
5. What is **AWS CloudFormation**, and what are three advantages of CloudFormation?
6. What is **JSON** and **YAML**, and what are the three differences between them?
7. What is a **stack** in CloudFormation?



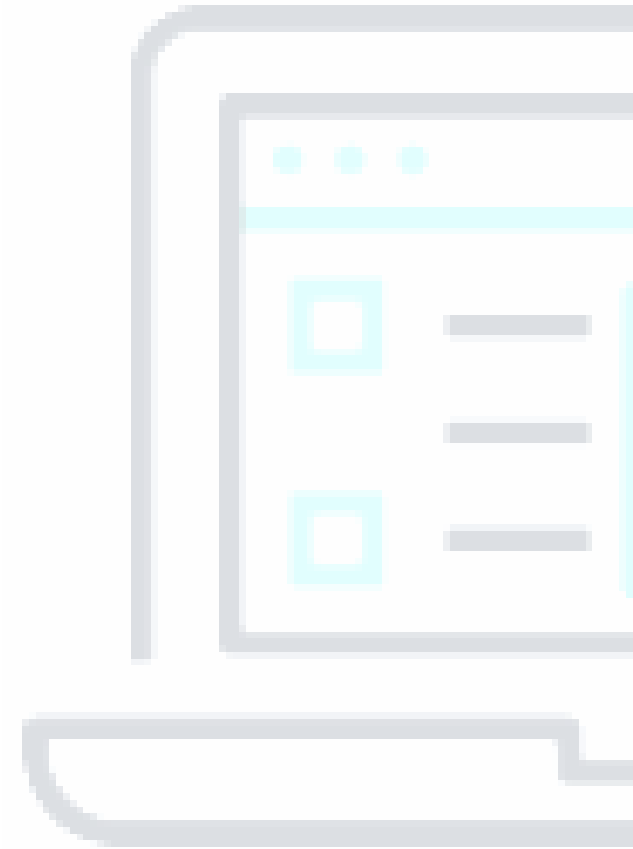


AWS Billing

AWS Billing fact-finding exercise

Recall what you have learned, and answer the following questions:

1. What are the different types of **AWS support plans**?
2. What is the **AWS Pricing Calculator**?
3. What are the different **Amazon EC2 pricing models**, and what are the differences between them?





Thank you



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