



PROJECTS

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FACT FINDING EXERCISES

Overview: Fact finding exercises

How to complete the exercises

- 1) **Fact Finding Exercise:** Allow learners to work on the self-paced exercise for the allotted time. Check on the learner's progress after approximately 30 minutes to determine whether learners will be able to complete the exercise in the allotted time, or whether they will need more time.
- 2) **Debrief:** Be prepared to share your responses for each question.

FACT FINDING EXERCISE



Python fact finding exercise

In this fact finding exercise, you will recall what you have learned about Python and answer the questions below. You can use the provided empty text fields in the accompanying activity sheet to document your answers.

If you need assistance answering the questions, use your notes, your student guide and the AWS website to refresh your knowledge. However, answer the questions using your own words to ensure you understand the concepts.

After completing the exercise, be prepared to share your answers with the class.

Questions

- 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.

FACT FINDING EXERCISE



Database fact finding exercise

In this fact finding exercise, you will recall what you have learned about databases and answer the questions below. You can use the provided empty text fields in the accompanying activity sheet to document your answers.

If you need assistance answering the questions, use your notes, your student guide and the AWS website to refresh your knowledge. However, answer the questions using your own words to ensure you understand the concepts.

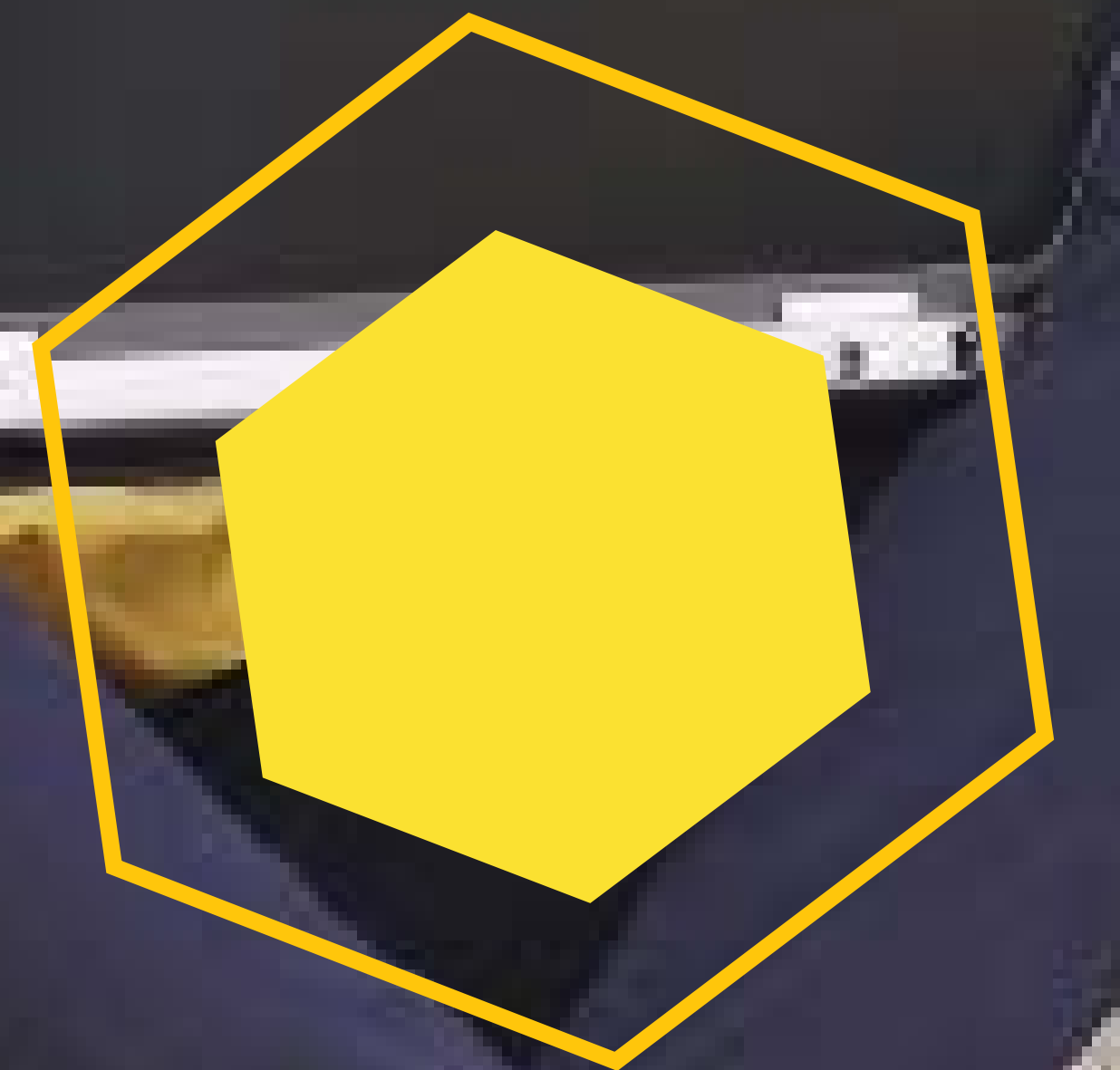
After completing the exercise, be prepared to share your answers with the class.

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) Explain the **WHERE** and **HAVING** clauses.



FACT FINDING EXERCISE



AWS Cloud Foundations – One fact finding exercise

In this fact finding exercise, you will recall what you have learned about AWS Cloud Foundations and answer the questions below. You can use the provided empty text fields in the accompanying activity sheet to document your answers.

If you need assistance answering the questions, use your notes, your student guide and the AWS website to refresh your knowledge. However, answer the questions using your own words to ensure you understand the concepts.

After completing the exercise, be prepared to share your answers with the class.

Questions

- 1) Define what IaaS, 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.



FACT FINDING EXERCISE



AWS Cloud Foundations – Two fact finding exercise

In this fact finding exercise, you will recall what you have learned about AWS Cloud Foundations and answer the questions below. You can use the provided empty text fields in the accompanying activity sheet to document your answers.

If you need assistance answering the questions, use your notes, your student guide and the AWS website to refresh your knowledge. However, answer the questions using your own words to ensure you understand the concepts.

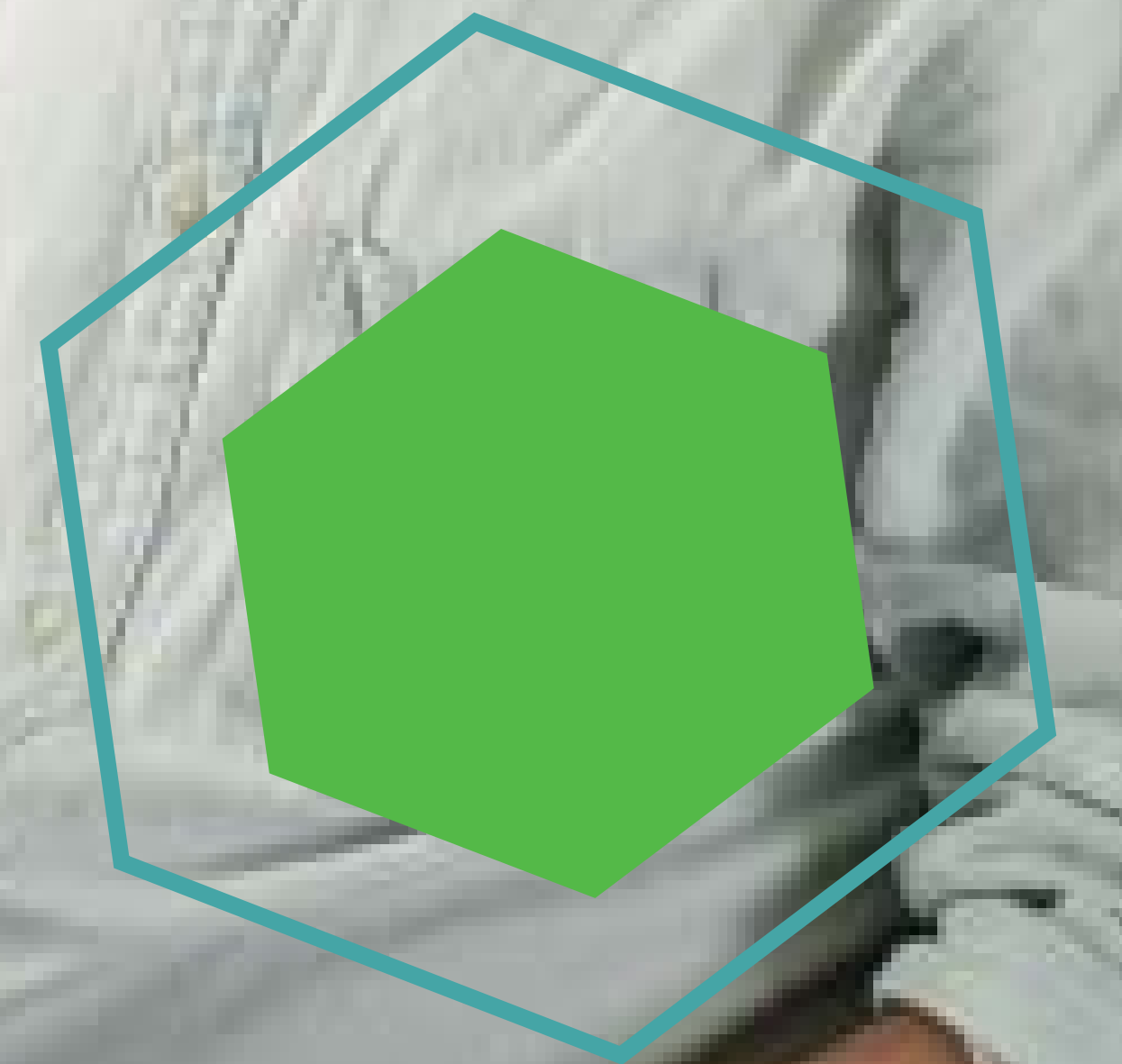
After completing the exercise, be prepared to share your answers with the class.

Questions

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



FACT FINDING EXERCISE



AWS Well-Architected Framework fact finding exercise

In this fact finding exercise, you will recall what you have learned about AWS Well-Architected and answer the questions below. You can use the provided empty text fields in the accompanying activity sheet to document your answers.

If you need assistance answering the questions, use your notes, your student guide and the AWS website to refresh your knowledge. However, answer the questions using your own words to ensure you understand the concepts.

After completing the exercise, be prepared to share your answers with the class.

Questions

- 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?

FACT FINDING EXERCISE



AWS CloudFormation fact finding exercise

In this fact finding exercise, you will recall what you have learned about AWS CloudFormation and answer the questions below. You can use the provided empty text fields in the accompanying activity sheet to document your answers.

If you need assistance answering the questions, use your notes, your student guide and the AWS website to refresh your knowledge. However, answer the questions using your own words to ensure you understand the concepts.

After completing the exercise, be prepared to share your answers with the class.

Questions

- 1) What is Configuration Orchestration?
- 2) 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 Cloud Formation.
- 6) What is JSON and YAML? List out 3 differences between them.
- 7) What is a stack in AWS CloudFormation?



FACT FINDING EXERCISE



AWS Billing fact finding exercise

In this fact finding exercise, you will recall what you have learned about AWS Billing and answer the questions below. You can use the provided empty text fields in the accompanying activity sheet to document your answers.

If you need assistance answering the questions, use your notes, your student guide and the AWS website to refresh your knowledge. However, answer the questions using your own words to ensure you understand the concepts.

After completing the exercise, be prepared to share your answers with the class.

Questions

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

