

Explore your course 1 scenario: Cymbal Bank

Learn about the course 1 activity and lab scenario

This reading introduces the activity and lab scenarios for course 1, which focuses on key cloud fundamentals such as security controls, identity and access management (IAM), networking, automation, and more. Building a strong foundation of cloud security knowledge is crucial for protecting cloud resources, sensitive data, and maintaining compliance with industry regulations and standards.

This certificate offers you an opportunity to apply your knowledge and skills in cloud security to a scenario where you work as a junior cloud security analyst at Cymbal Bank, a fictitious financial organization.

Note: Be sure to review the **Lab Technical Tips** reading before you begin working on the lab.

Your role



Congratulations! You've joined Cymbal Bank as a junior cloud security analyst. You're working alongside a team of dedicated cloud security professionals, assisting with Cymbal Bank's recent cloud adoption as part of their digital transformation journey.

Cymbal Bank is an international retail bank that's undergoing a digital transformation to address the inefficiency and costliness of their legacy technology systems. The new digital transformation strategy is focused on the growth and modernization of its information technology operations and infrastructure through a hybrid cloud delivery adoption. While Cymbal Bank seeks to take advantage of the cloud to improve their platform and customer offerings, Javier, the Chief Information Security Officer (CISO) wants to focus on strengthening the cybersecurity of Cymbal Bank's cloud environment. The main goals are:

ensuring the digital security of its customers, employees, and cloud assets and maintaining any external compliance or regulatory requirements in all the countries the bank operates in.

Your tasks

In the following course 1 lab and activity, you'll be working with the Cymbal Bank cloud security team to:

- **Manage IaC with Terraform:** In this module 3 activity, you'll begin supporting Cymbal Bank's cloud adoption project by first evaluating the configuration of infrastructure as code (IaC) deployment.
- **Create a VPC using Cloud Shell:** In this module 4 lab, you'll create a replica of an existing network for testing purposes.

As you work to complete these tasks, you'll build your foundational knowledge on topics like automation, infrastructure as code (IaC), networking, and cloud tools. Completing these tasks will provide you with a clear path to help you navigate the complexities of cloud security with confidence so that you can make informed decisions about the secure configuration of cloud resources.

Your team members

Cymbal Bank has established a cybersecurity team to safeguard its systems and protect customer data. This team comprises a diverse group of professionals who each play a critical role in maintaining Cymbal Bank's security posture.

Javier, Chief Information Security Officer (CISO): As a CISO, Javier oversees Cymbal Bank's information security strategy, ensures compliance with industry regulations, and leads the company's digital transformation strategy. Javier knows that adopting the cloud is the way forward, but needs to balance security needs and risk-adversity as ultimately, Javier is responsible for all risk.

Chloe, Cloud Security Lead: As the cloud security lead, Chloe leads and manages the cloud security aspect of the digital transformation strategy. Chloe is your first point of contact who will assign you with your day-to-day tasks.

Hank, Cloud Architect: As the cloud architect, Hank is responsible for designing, developing, and implementing cloud computing solutions. Hank ensures the smooth operation of cloud systems and works with other teams to address technical issues.

Hannah, Incident Responder: As an incident responder, Hannah works with the Incident Response Team to address security incidents and other threats. Hannah ensures that Cymbal

Bank can swiftly identify and respond to incidents, work to contain and eradicate damage, and swiftly recover from the incident.

Note: *The story, all names, characters, and incidents portrayed in this project are fictitious. No identification with actual persons (living or deceased) is intended or should be inferred. And, the data shared in this project has been created for pedagogical purposes.*

Your deliverables

With the course 1 activity and lab, you'll gain valuable practice and apply your new skills as you complete the following:

- Use infrastructure-as-code (IaC) to securely provision virtual machines, address security concerns, and ensure the consistent deployment of cloud resources across cloud infrastructure.
- Create and configure a virtual network in a test environment to explore the security of the configuration settings before deploying to the production environment.

Good luck! Your Cymbal Bank team members are looking forward to collaborating with you to effectively address their cloud security challenges.

Key takeaways

The course 1 activity and lab are designed for you to practice and apply course skills in a workplace scenario that mirrors roles, responsibilities, and tasks required of a cloud security analyst on-the-job. By completing each hands-on practice opportunity, you'll have work examples that will enhance your portfolio and showcase your skills for future employers.

Resources for more information

Use the **Guide to Virtual Private Cloud (VPC)** reading available in course 1 module 4 to help support you as you work through the lab.