

# Guide to the capstone project

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## Welcome to the capstone project

Congratulations on reaching the final project of the Google Cloud Cybersecurity certificate program. Coming up, you'll have the opportunity to use skills you developed throughout the entire Cloud Cybersecurity certificate program within a two-part project that is designed to simulate workplace scenarios cloud cybersecurity analysts encounter. You'll be responsible for incident response tasks like identifying vulnerabilities, isolating and containing threats, and recovering compromised systems. Along the way, you'll interact with stakeholders that are depending on your insights to help them make timely, cloud security-driven decisions. Once you complete the capstone project, you'll have practical work examples that you can add to your portfolio to showcase your skills to potential employers.

## The capstone project: What to expect

Throughout each course, you were provided with opportunities to use your developing skills to complete labs and activities that focused on specific aspects of cloud cybersecurity. Each course's labs and activities built on the knowledge you gained in previous courses, breaking down cloud cybersecurity skills into smaller segments. This allowed each lab and activity to isolate different skills and focus on reinforcing specific cloud security tasks.

However, the capstone project covers the entire incident response process and you will create one project deliverable that showcases the skills you've learned across the certificate. To complete this project, you'll begin by familiarizing yourself with the capstone project scenario involving a major data breach. Next you'll apply your cloud security knowledge to address this security incident by completing a series of tasks. After completing these tasks, you'll move on to complete the activity, where you'll create a final report that summarizes the security incident.

The capstone project scenario will offer opportunities to:

- Gather information about a data breach.
- Contain and eradicate the threat.
- Restore the affected systems.
- Create a final report.

Remember, the capstone is a culmination of everything you've learned throughout the program. You are encouraged to use course materials and labs to help you work through the capstone as you need. Additionally, be sure to take screenshots of your work as you complete each task. If you get stuck along the way, there's a solution guide offering the steps to complete the tasks for each capstone lab for you to review. After completing your capstone project final report activity, you'll be able to assess your work with an exemplar that demonstrates a successful project.

### Capstone project scenario overview: Cymbal Retail



For the last year, you've been working as a junior cloud security analyst at Cymbal Retail. Cymbal Retail is a retail giant currently operating 170 physical stores and an online platform across 28 countries. They reported \$15 billion in revenue in 2022. They currently employ 80,400 employees across the world.

The company has experienced a data breach. As a junior member of the security team, you'll help support the team through the lifecycle of this security incident. To do this, you'll identify the vulnerabilities related to the breach, isolate and contain the breach to prevent further

unauthorized access, recover the compromised systems, verify compliance with frameworks, and remediate any outstanding compliance related issues.

## Key takeaways

Your capstone project is a chance to apply your newly developed cloud cybersecurity skills and knowledge, demonstrate your skills to prospective employers, and present what you have learned from the Google Cloud Cybersecurity Certificate. The capstone project is a great addition to your resume and portfolio as a concrete example of everything you've learned!