

Part V - Claude Code Report (CS6650)

1) Time spent interacting with Claude Code

- Total time (excluding watching/understanding the video): ~40 minutes
- Number of prompts: 16
- Goal of interactions: identify why the application could not call Claude via AWS Bedrock, and confirm the root cause using system/application logs.

2) Mystery bug description + evidence from logs

Symptom (what I observed):

The application consistently failed when attempting to invoke the Claude model through AWS Bedrock. Requests returned HTTP 403 Forbidden and the service could not complete inference calls.

Root cause (what logs show):

The failure was not caused by code logic, network issues, or missing IAM permissions on the EC2 role. The logs indicate an explicit deny enforced by an AWS Organizations Service Control Policy (SCP). Because SCP explicit denies override any IAM allows, the instance role is blocked from calling `bedrock:InvokeModel` for the Claude model.

Evidence (log excerpt):

- Log file/source: *Application error output / service logs* (the error response captured during request execution)

Conclusion / Fix direction:

Because this is an SCP explicit deny, it cannot be fixed by changing IAM permissions on the instance or modifying the app's AWS credentials. The viable paths are:

- use a model/region permitted by the lab policy (if any), or
- run Claude Code outside the restricted AWS account/environment (or use an allowed alternative) while continuing to analyze logs from the EC2-hosted app.