Troubleshooting a VPC

Lab Introduction

Business scenario

Business need: Troubleshoot the VPC

Martha:

You and Nikhil recently made changes to the virtual private cloud (VPC) where the café web server runs. The changes improved network security, but you discovered other issues when customers reported that they could not access the website.

Sofía:

Yes, when Nikhil and I investigated the problem, we could not establish a Secure Shell (SSH) connection to the web server. So we could not diagnose any issues with the instance, but we think it's a fundamental networking misconfiguration. We'll meet with Mateo and Olivia to discuss it.

Technical requirements

Nikhil and Sofía consult with Mateo and Olivia about how to troubleshoot the VPC misconfiguration problem. Mateo and Olivia provide the following recommendations:

- Verify the configuration of route tables, network access control lists (network ACLs), and security groups.

- Create a VPC flow log to capture IP traffic inside the VPC.

- Analyze the flow log data to determine the source of the problems.

Lab tasks

Lab tasks overview

In this lab, you will perform the following tasks:

- Create an Amazon Simple Storage Service (Amazon S3) bucket to hold VPC Flow Log data.

- Create a flow log to capture all IP traffic passing through network interfaces in your VPC.

- Troubleshoot VPC configuration issues to allow access to resources.

- Download and analyze the flow log data.

Café web server runtime architecture
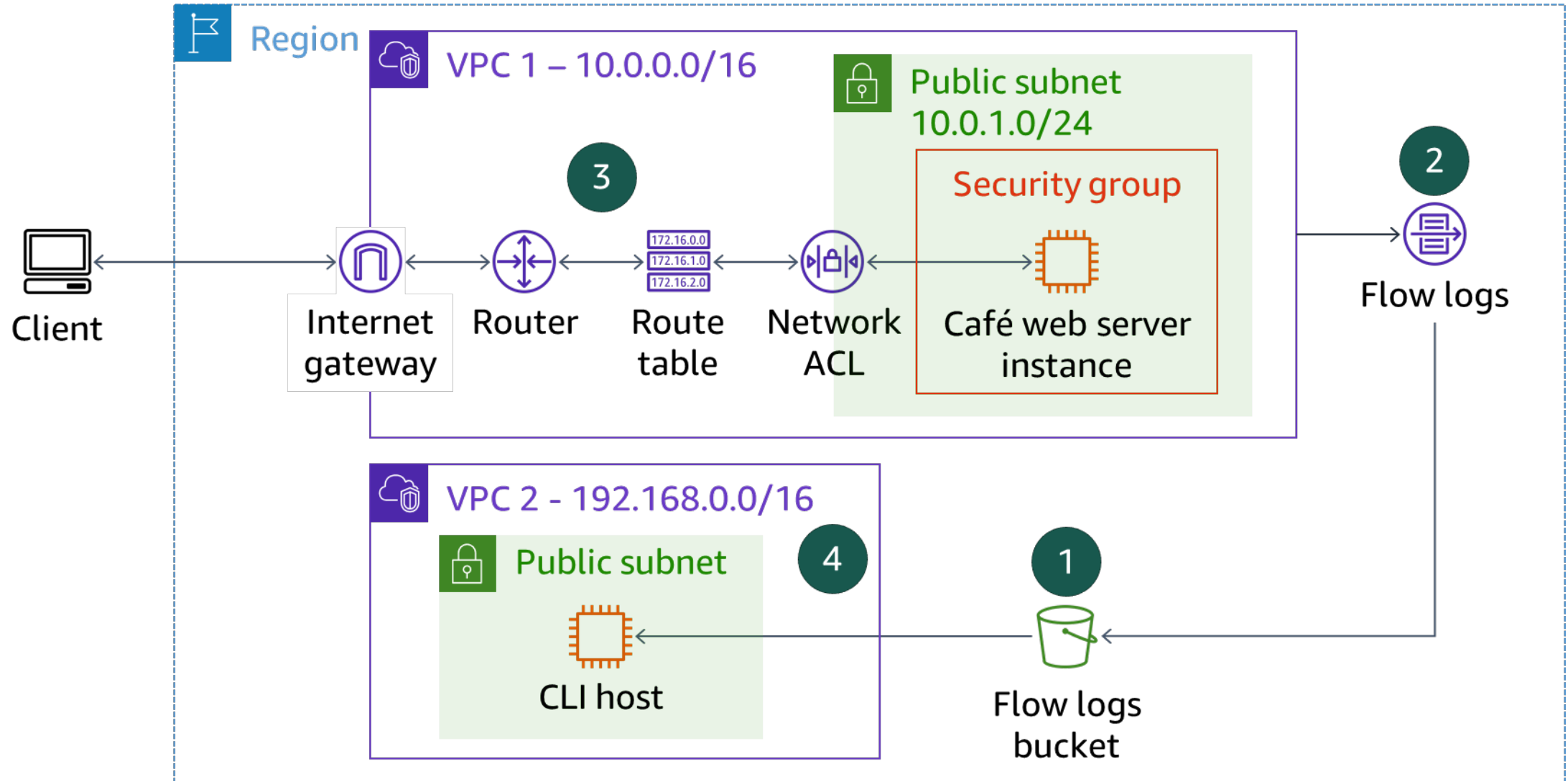
Begin lab

Checkpoint questions

1. What are four common tasks for troubleshooting network connectivity on AWS?

2. Where can a systems operator publish a VPC flow log?

3. Which AWS CLI command do you use to create a VPC flow log?

Thank you

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