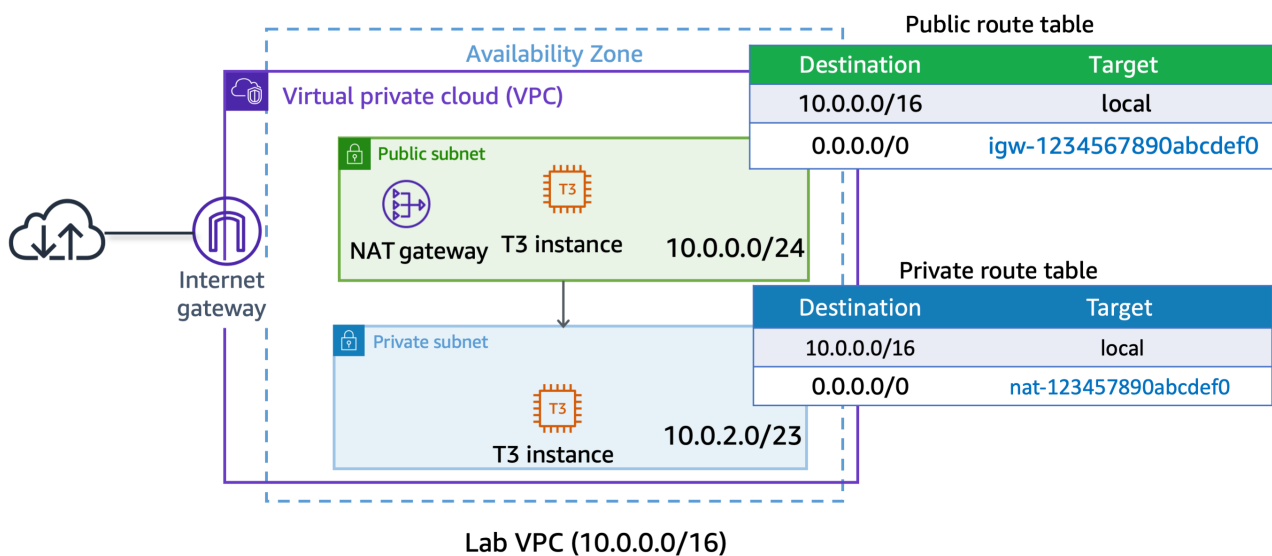


Lab overview

As an AWS solutions architect, it is important that you understand the overall functionality and capabilities of Amazon Web Service (AWS) and the relationship between the AWS networking components. In this lab, you create an Amazon Virtual Private Cloud (Amazon VPC), a public and a private subnet in a single Availability Zone, public and private routes, a NAT gateway, and an internet gateway. These services are the foundation of networking architecture inside of AWS. This architecture design covers concepts of infrastructure, design, routing, and security.

The following image shows the final architecture for this lab environment:



OBJECTIVES

After completing this lab, you should know how to do the following:

- Create an Amazon VPC.
- Create public and private subnets.
- Create an internet gateway.
- Configure a route table and associate it to a subnet.
- Create an Amazon Elastic Compute Cloud (Amazon EC2) instance and make the instance publicly accessible.

- Isolate an Amazon EC2 instance in a private subnet.
- Create and assign security groups to Amazon EC2 instances.
- Connect to Amazon EC2 instances using Session Manager, a capability of AWS Systems Manager.

ICON KEY

Various icons are used throughout this lab to call attention to different types of instructions and notes. The following list explains the purpose for each icon:

- **Command:** A command that you must run.
- **Expected output:** A sample output that you can use to verify the output of a command or edited file.
- **Note:** A hint, tip, or important guidance.
- **Learn more:** Where to find more information.
- **Security:** An opportunity to incorporate security best practices.
- **Caution:** Information of special interest or importance (not so important to cause problems with the equipment or data if you miss it, but it could result in the need to repeat certain steps).
- **WARNING:** An action that is irreversible and could potentially impact the failure of a command or process (including warnings about configurations that cannot be changed after they are made).

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