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AWS Management Interfaces
How to Interact with AWS Cloud Platform

AWS Management Interfaces Overview

- AWS provides three distinct options in order to interact with the AWS Cloud Platform:
  - AWS Management Console
  - AWS Command Line Interface (CLI)
  - AWS Software Development Kits (SDKs)

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AWS Management Console

AWS Management Console

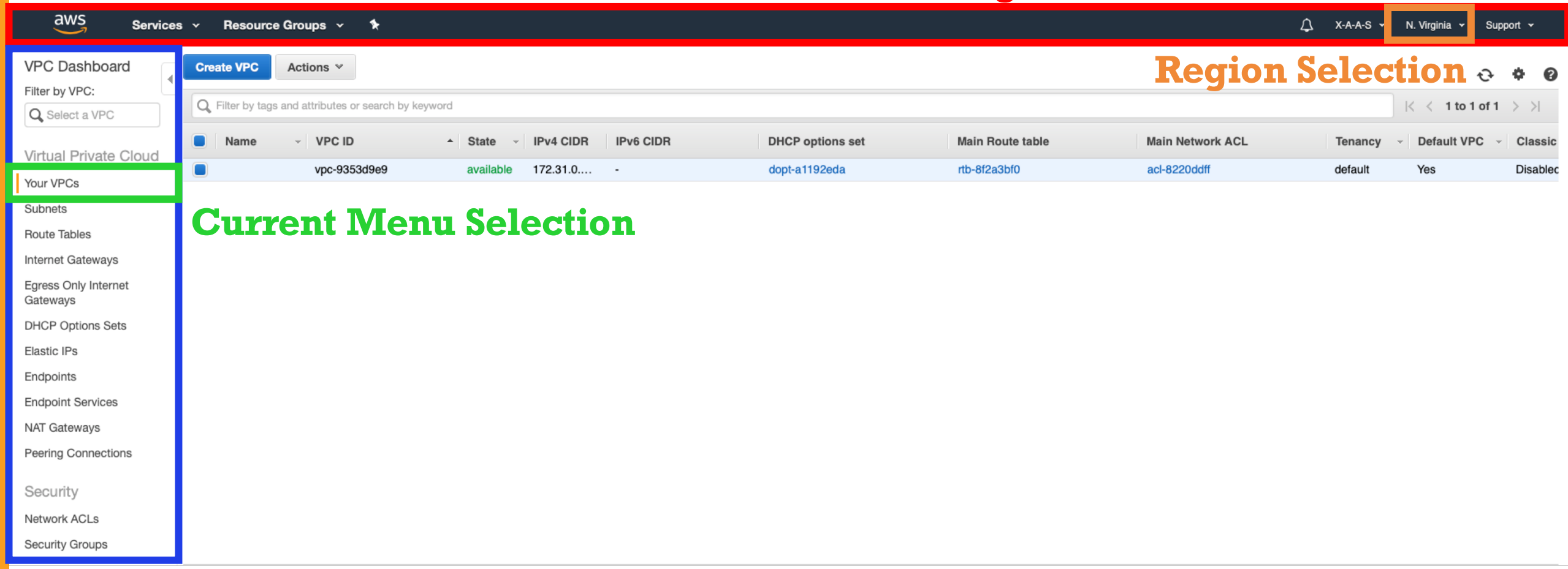
- The AWS Management Console is a graphical user interface for accessing a wide range of AWS Cloud services and managing compute, storage, and other cloud resources

- The AWS Management Console is a web application that comprises and refers to a broad collection of service consoles for managing Amazon Web Services

- Access the AWS Web Management Console https://console.aws.amazon.com

AWS Management Console

Navigation Bar



Navigation Pane

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AWS Command Line Interface (CLI)

AWS Command Line Interface (CLI)

- The AWS Command Line Interface (CLI) is a unified tool to manage your AWS services

- With just one tool to download and configure, you can control multiple AWS services from the command line and automate them through scripts

- After AWS CLI tool installation, you can begin making calls to your AWS services from the command line.

AWS Command Line Interface (CLI)

```
$ aws ec2 describe-instances
```

Returns information on all EC2 Instances

```
$ aws ec2 start-instances --instance-ids i-1348636c
```

Start EC2 instance

```
$ aws s3 ls s3://mybucket
        LastWriteTime                Length Name
        -------------                ------ ----
                                     PRE myfolder/
2013-09-03 10:00:00                1234 myfile.txt
```

List contents of your S3 buckets in a directory-based listing

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AWS Software Development Kits(SDKs)

Software Development Kits (SDKs)

- A software development kit, or SDK, is really nothing more than a set of tools that allow developers to create software or apps for a specific platform, operating system, computer system or device

- Using SDKs, you can access and manage AWS services with your preferred development language or platform

- Offering from AWS is quite large …
  https://aws.amazon.com/tools/

Software Development Kits (SDKs)

SDKs

Simplify using AWS services in your applications with an API tailored to your programming language or platform.

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Python with AWS

- Boto is the Amazon Web Services (AWS) SDK for Python
- It enables Python developers to create, configure, and manage AWS services, such as EC2 and S3
- The example below shows how to describe one or more EC2 instances using describe_instances

```
import boto3

ec2 = boto3.client('ec2')
response = ec2.describe_instances()
print(response)
```

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Thank you