

Lesson 05 Demo 02

Creating a Default VPC

Objective: To set up a secure and isolated network environment that forms the basis for hosting AWS resources, gaining practical skills in essential networking configuration within the AWS ecosystem

Tools required: AWS workspace

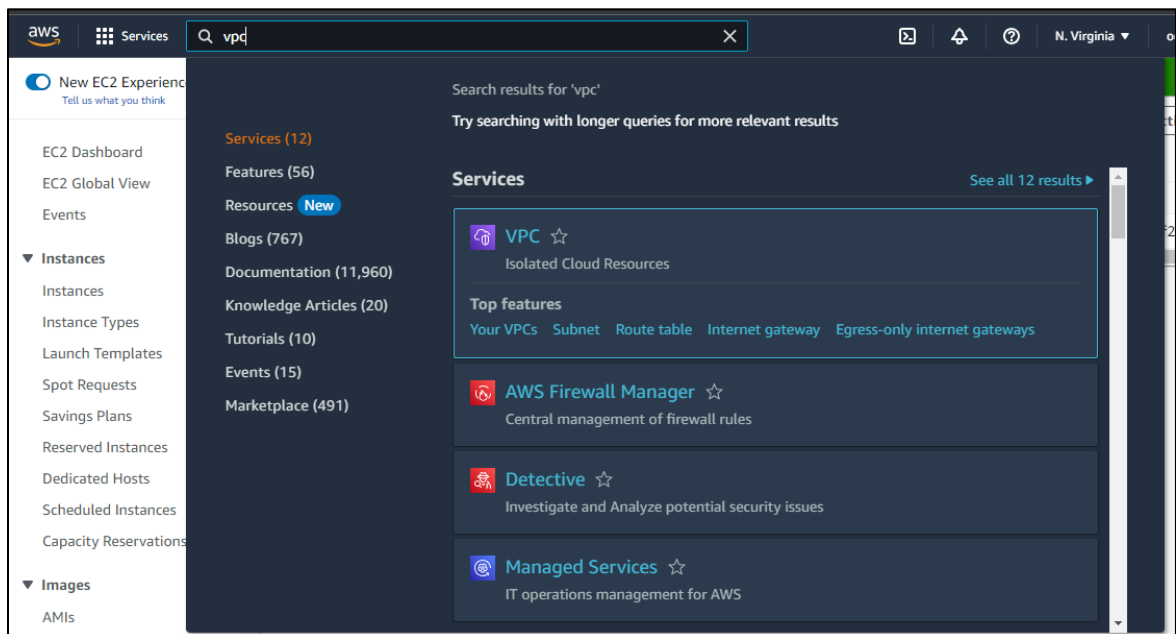
Prerequisites: AWS account

Steps to be followed:

1. Create a default VPC

Step 1: Create a default VPC

- 1.1 Navigate to the AWS portal home screen and search for **VPC**



1.2 Click on VPCs

The screenshot shows the AWS VPC dashboard. On the left, there's a sidebar with navigation links. The main area displays 'Resources by Region' for US East 1. A red box highlights the 'VPCs' resource, which shows 'See all regions' and 'US East 1'. Other resources like Subnets, Route Tables, and Internet Gateways are also listed.

1.3 Click on Create VPC

The screenshot shows the 'Your VPCs' page in the AWS console. A table lists the VPCs. The 'Create VPC' button in the top right corner is highlighted with a red box. The table has columns for Name, VPC ID, State, IPv4 CIDR, and IPv6 CIDR.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-0d9c133d4e0dd0456	Available	172.31.0.0/16	-

- 1.4 In the VPC settings tab, locate the **Name tag** field. Assign an appropriate name to the VPC. Next, select **IPv4 CIDR manual input** and input **10.0.0.0/24** in the provided field.

The screenshot shows the AWS Management Console interface for creating a VPC. The top navigation bar includes the AWS logo, a 'Services' menu, a search bar, and a '[Alt+S]' shortcut. The main content area is titled 'Resources to create' with an 'Info' link. Below this, there's a section for selecting resources: 'VPC only' (selected) and 'VPC and more'. The 'Name tag - optional' section has a description and a text input field containing 'Testing'. The 'IPv4 CIDR block' section has a description and two radio button options: 'IPv4 CIDR manual input' (selected) and 'IPAM-allocated IPv4 CIDR block'. Below this, the 'IPv4 CIDR' text input field contains '10.0.0.0/24'. The 'IPv6 CIDR block' section has a description and four radio button options: 'No IPv6 CIDR block' (selected), 'IPAM-allocated IPv6 CIDR block', 'Amazon-provided IPv6 CIDR block', and 'IPv6 CIDR owned by me'. Finally, the 'Tenancy' section has a description and a dropdown menu set to 'Default'.

aws Services Search [Alt+S]

Resources to create Info
Create only the VPC resource or the VPC and other networking resources.

☒ VPC only ☐ VPC and more

Name tag - optional
Creates a tag with a key of 'Name' and a value that you specify.

Testing

IPv4 CIDR block Info
☒ IPv4 CIDR manual input
☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR
10.0.0.0/24

IPv6 CIDR block Info
☒ No IPv6 CIDR block
☐ IPAM-allocated IPv6 CIDR block
☐ Amazon-provided IPv6 CIDR block
☐ IPv6 CIDR owned by me

Tenancy Info
Default

1.5 Click on **Create VPC**

aws Services Search [Alt+S]

10.0.0.0/24

IPv6 CIDR block [Info](#)

- ☒ No IPv6 CIDR block
- ☐ IPAM-allocated IPv6 CIDR block
- ☐ Amazon-provided IPv6 CIDR block
- ☐ IPv6 CIDR owned by me

Tenancy [Info](#)

Default

Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key Value - optional

Q Name X Q Testing X Remove tag

Add tag

You can add 49 more tags

Cancel Create VPC

aws Services Search [Alt+S] N. Virginia odl_user_1041664 @ 9124-2815-5420

VPC dashboard X EC2 Global View New

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs New

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

VPC > Your VPCs > vpc-073ed1b537b83c091

vpc-073ed1b537b83c091 / Testing Actions

Details [Info](#)

VPC ID vpc-073ed1b537b83c091	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0f3a3a0b82f3468d7	Main route table rtb-003d69957654e6445	Main network ACL acl-02cb6ca7fcd881b8
Default VPC No	IPv4 CIDR 10.0.0.0/24	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 912428155420	

[Resource map](#) [CIDRs](#) [Flow logs](#) [Tags](#)

Resource map [Info](#)

By following these steps, you have successfully created VPC and a default VPC which provides a secure and isolated network environment for your AWS resources.