

Create your own new custom VPC –

- And configure your EC2 linux instance inside your custom VPC
- And then create 3 subnets of that VPC
- Attach an internet gateway to your custom VPC

Creating VPC(MyVPC) :

The screenshot shows the 'Create VPC' page in the AWS Management Console. The page is titled 'Create VPC' and includes a sub-header 'VPC settings'. Under 'Resources to create', the 'VPC only' radio button is selected. The 'Name tag' field is set to 'MyVPC'. Under 'IPv4 CDR block', the 'No IPv4 CDR block' radio button is selected. Under 'IPv6 CDR block', the 'No IPv6 CDR block' radio button is selected. The 'Tenancy' dropdown is set to 'Default'. The 'Tags' section shows a key-value pair 'Name: MyVPC'. The 'Create VPC' button is visible at the bottom right.

The screenshot shows the 'VPC dashboard' in the AWS Management Console. The dashboard displays the details of the newly created VPC, 'vpc-01248024f5acebdaf / MyVPC'. The 'Details' section shows the VPC ID, State (Available), Tenancy (Default), and IPv4 CIDR (10.0.0.0/16). The 'Resource map' section shows the VPC, Subnets (0), Route tables (1), and Network connections (0). A notification banner at the top states 'You successfully created 3 subnets: subnet-055189a267c82709f, subnet-03d224dd8696be960, subnet-01fa363292940e07b'.

Creating 3 subnets of that VPC

The screenshot shows the 'Subnets' page in the AWS Management Console. The page displays a table of subnets created for the VPC 'vpc-01248024f5acebdaf / MyVPC'. The table has columns for Name, Subnet ID, State, VPC, IPv4 CIDR, IPv6 CIDR, Available IPv4 addresses, and Actions. Three subnets are listed: 'MySubnet-02', 'MySubnet-01', and 'MySubnet-03'. All subnets are in the 'Available' state.

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Actions
MySubnet-02	subnet-05d224dd8696be960	Available	vpc-01248024f5acebdaf MyV...	10.0.2.0/24	–	251	ap-
MySubnet-01	subnet-055189a267c82709f	Available	vpc-01248024f5acebdaf MyV...	10.0.1.0/24	–	251	ap-
MySubnet-03	subnet-01fa363292940e07b	Available	vpc-01248024f5acebdaf MyV...	10.0.3.0/24	–	251	ap-

Configuring EC2 linux instance inside the custom VPC

The image displays three sequential screenshots from the AWS Management Console, illustrating the process of launching an Amazon Linux 2 EC2 instance within a custom VPC.

First Screenshot: Launch Instance Wizard - Name and tags

- Name and tags:** The instance name is set to "MyVM".
- Application and OS Images (Amazon Machine Image):** The "Quick Start" section shows the "Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type" selected. The description specifies "ami-0ffa3e16de16665e (64-bit (x86)) / ami-0b6f6b4868a0bcac (64-bit (Arm))".
- Summary:** Shows 1 instance, t2.micro instance type, new security group, and 8 GiB storage.
- Free tier notice:** A blue box indicates that the first year includes 750 hours of t2.micro (or t3.micro) in the Regions in which t2.micro is unavailable.
- Buttons:** "Cancel" and "Launch instance" are visible.

Second Screenshot: Launch Instance Wizard - Network settings

- Key pair (login):** A key pair named "MyKey" is selected.
- Network settings:** The "VPC" dropdown is set to "vpc-01248024f5acabdaf (MyVPC)". The "Subnet" dropdown is set to "subnet-055189a267c82709f (MySubnet-01)".
- Firewall (security group):** A new security group is created, named "launch-wizard-1".
- Inbound security group rules:** A rule is added for "SSH" (port 22) from "Anywhere".
- Summary:** Shows the same instance configuration as the first screenshot.
- Buttons:** "Cancel" and "Launch instance" are visible.

Third Screenshot: EC2 Instance Summary

- Instance summary for i-04b6fc6f1dd000bc5 (MyVM):** The instance is in the "Running" state.
- Instance details:** Shows the platform as "Amazon Linux (Inferred)", the AMI as "ami-0ffa3e16de16665e", and the instance type as "t2.micro".
- Network settings:** Shows the public IP address as "10.0.1.93" and the private IP address as "10.0.1.93".
- Summary:** Shows the instance is running and the AMI location as "amazon/amzn2-ami-kernel-5.10-hvm-2.0.20230207.0-x86_64-gp2".

- Attach an internet gateway to the custom VPC

aws Services Search [Alt+S]

You have successfully created 3 subnets: subnet-05189a267c82709f, subnet-03d224d8696be960, subnet-01fa363292940e07b

VPC > Internet gateways > Create internet gateway

Create internet gateway [Info](#)

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

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

Tags - optional
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	
<input type="text" value="Name"/>	<input type="text" value="MyInternetGateway"/>	<input type="button" value="Remove"/>

You can add 49 more tags.

aws Services Search [Alt+S]

VPC > Internet gateways > Attach to VPC (igw-0605485c5757f3139)

Attach to VPC (igw-0605485c5757f3139) [Info](#)

VPC
Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs
Attach the internet gateway to this VPC.

AWS Command Line Interface command