

# LAB - Deploy a VPC

## VPC & Other Resources

The screenshot shows two AWS VPC management interfaces.

**VPC dashboard (Top):** Displays the details for the VPC `vpc-0882892ba1d0f661f / MyVPC`. Key settings include:

- VPC ID:** `vpc-0882892ba1d0f661f`
- DNS resolution:** Enabled
- Main network ACL:** `acl-0b7b5fb0339383015`
- IPv6 CIDR:** –
- Encryption control ID:** –
- State:** Available
- Tenancy:** default
- Default VPC:** No
- Network Address Usage metrics:** Disabled
- Encryption control mode:** –
- Block Public Access:** Off
- DHCP option set:** `dopt-08e50754b344c373f`
- IPv4 CIDR:** `10.0.0.0/16`
- Route 53 Resolver DNS Firewall rule groups:** –
- DNS hostnames:** Enabled
- Main route table:** `rtb-06791fdf2d6d34fb5`
- IPv6 pool:** –
- Owner ID:** `686699774218`

**Resource map:** Shows the VPC `MyVPC` and its Subnets (1) `eu-west-1a` and Route tables (2) `PublicRouteTable`.

**Subnet Details (Bottom):** Displays the details for the subnet `subnet-0553f2259a6f745e7 / PublicSubnet`. Key settings include:

- Subnet ID:** `subnet-0553f2259a6f745e7`
- IPv4 CIDR:** `10.0.1.0/24`
- Availability Zone:** `euw1-az2 (eu-west-1a)`
- Default subnet:** No
- Customer-owned IPv4 pool:** –
- IPv6-only:** No
- DNS64:** Disabled
- Subnet ARN:** `arn:aws:ec2:eu-west-1:686699774218:subnet/subnet-0553f2259a6f745e7`
- State:** Available
- IPv6 CIDR:** –
- VPC:** `vpc-0882892ba1d0f661f | MyVPC`
- Route table:** `rtb-02ed597273d2641f0 | PublicRouteTable`
- Auto-assign IPv6 address:** No
- Outpost ID:** –
- Hostname type:** IP name
- Owner:** `686699774218`
- Block Public Access:** Off
- IPv6 CIDR association ID:** –
- Network ACL:** `acl-0b7b5fb0339383015`
- Auto-assign customer-owned IPv4 address:** No
- IPv6 CIDR reservations:** –
- Resource name DNS A record:** Disabled
- Resource name DNS AAAA record:** Disabled

Navigation bars at the bottom of both pages include: VPC dashboard, Filter by VPC, Virtual private cloud, Security, PrivateLink and Lattice, Actions, Resource logs, CIDRs, Flow logs, Tags, Integrations, and Route table.

**rtb-02ed597273d2641f0 / PublicRouteTable**

Details		Info	
Route table ID	rtb-02ed597273d2641f0	Main	<input checked="" type="checkbox"/> No
VPC	vpc-0882892ba1d0f661f   MyVPC	Owner ID	<a href="#">686699774218</a>
Explicit subnet associations <a href="#">subnet-0553f2259a6f745e7 / PublicSubnet</a>			
Edge associations -			

**Routes** | Subnet associations | Edge associations | Route propagation | Tags

**Routes (2)**

Destination	Target	Status	Propagated	Route Origin
0.0.0.0/0	<a href="#">igw-0bd3e23cd3907454f</a>	Active	No	Create Route
10.0.0.0/16	local	Active	No	Create Route Table

**igw-0bd3e23cd3907454f / InternetGateway**

Details		Info	
Internet gateway ID	igw-0bd3e23cd3907454f	State	<input checked="" type="checkbox"/> Attached
VPC ID	vpc-0882892ba1d0f661f   MyVPC	Owner	<a href="#">686699774218</a>

**Tags (1)**

Key	Value
Name	InternetGateway

## EC2 Instance

**Instance summary for i-0799547d6d8d692d6 (WebServerInstance)**

- Updated less than a minute ago**
- Instance ID**: i-0799547d6d8d692d6
- IPv6 address**: -
- Hostname type**: IP name: ip-10-0-1-243.eu-west-1.compute.internal
- Answer private resource DNS name**: -
- Auto-assigned IP address**: 34.248.156.245 [Public IP]
- IAM role**: -
- IMDSv2**: Optional EC2 recommends setting IMDSv2 to required | Learn more
- Operator**: -
- Public IPv4 address**: 34.248.156.245 | [open address](#)
- Instance state**: Running
- Private IP DNS name (IPv4 only)**: ip-10-0-1-243.eu-west-1.compute.internal
- Instance type**: t2.micro
- VPC ID**: vpc-0882892ba1d0f661f (MyVPC)
- Subnet ID**: subnet-0553f2259a6f745e7 (PublicSubnet)
- Instance ARN**: arn:aws:ec2:eu-west-1:686699774218:instance/i-0799547d6d8d692d6
- Private IPv4 addresses**: 10.0.1.245
- Public DNS**: ec2-54-248-156-245.eu-west-1.compute.amazonaws.com | [open address](#)
- Elastic IP addresses**: -
- AWS Compute Optimizer finding**: Opt-in to AWS Compute Optimizer for recommendations. | [Learn more](#)
- Auto Scaling Group name**: -
- Managed**: false

## SSH Connection

```
vijayagagla@DESKTOP-FP4OP26:~$ ssh -i prod-private-instance-key-vijaya.pem ec2-user@34.248.156.245
The authenticity of host '34.248.156.245' (34.248.156.245) can't be established.
ED25519 key fingerprint is SHA256:HAFVhAZYTxJ61pfXhcRFJkxpdtUg85kLVeciaUnQ30.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '34.248.156.245' (ED25519) to the list of known hosts.

#_
~\_ #####_      Amazon Linux 2
~~ \_#####\_
~~  \###|      AL2 End of Life is 2026-06-30.
~~   \#/ --->
~~    V~! '--->
~~     /          A newer version of Amazon Linux is available!
~~   /---/        Amazon Linux 2023, GA and supported until 2028-03-15.
~/m/ ,/-/       https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-10-0-1-243 ~]$ |
```