

# PROJECT 1:Deploying website on AWS EC2 instance

## Virtual private cloud:

The screenshot shows the AWS VPC console interface. The left sidebar contains navigation links for VPC dashboard, EC2 Global View, Virtual private cloud, Security, and PrivateLink and Lattice. The main content area displays 'Your VPCs (1/5)' with a table listing VPCs. The 'harshi12-vpc' is selected, and its details are shown below.

Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR
micro/vpc	vpc-014dc7dd9e330161d	Available	Off	10.0.0.0/16	-
harshi12-vpc	vpc-03941eae4e597655	Available	Off	10.0.0.0/16	-

**Details for vpc-03941eae4e597655 / harshi12-vpc:**

- VPC ID: vpc-03941eae4e597655
- State: Available
- Block Public Access: Off
- DNS hostnames: Disabled
- DNS resolution: Enabled
- Tenancy: Default
- DHCP option set: dopt-0b3af482f386ee01f
- Main route table: rtb-024c33ebd47fdcaaa
- Main network ACL: acl-03d51b09d4c2ac82f
- Default VPC: No
- IPv4 CIDR: 10.0.0.0/16
- IPv6 pool: -
- Route 53 Resolver DNS Firewall rule groups: Failed to load rule groups
- Owner ID: 471112860190

## Internet Gateway:

The screenshot shows the AWS VPC console interface. The left sidebar contains navigation links for VPC dashboard, EC2 Global View, Virtual private cloud, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, NAT gateways, Peering connections, Security, and PrivateLink and Lattice. The main content area displays 'Internet gateways (1/5)' with a table listing Internet gateways. The 'harshi-igw' is selected, and its details are shown below.

Name	Internet gateway ID	State	VPC ID	Owner
harshi-igw	igw-0317b549abc580b0e	Attached	vpc-03941eae4e597655   harshi12-vpc	471112860190
micro/igw	igw-03d73e70bb06ca5a9	Attached	vpc-014dc7dd9e330161d   micro/vpc	471112860190
devika-igw	igw-09fb55df1275f470d	Attached	vpc-07ebc71c51fb9ec33   devika-vpc	471112860190
-	igw-0be74d8f0b05ef2bb	Attached	vpc-0ad39d47bdf30890a	471112860190
Dhanush-igw	igw-0de6caaa37623733f	Attached	vpc-0fb86a181a06d975a   Dhanu-vpc	471112860190

**Details for igw-0317b549abc580b0e / harshi-igw:**

- Internet gateway ID: igw-0317b549abc580b0e
- State: Attached
- VPC ID: vpc-03941eae4e597655 | harshi12-vpc
- Owner: 471112860190

## Subnet 1:

The screenshot displays the AWS VPC console for the 'ap-southeast-1' region. The 'Subnets (1/11)' page is active, showing a list of subnets. The selected subnet is 'harshi subnet 1' (subnet-084033fc6c63641a7). The details for this subnet are shown below the list.

Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
public subnet 1	subnet-0140c7009e5301e1d	Available	vpc-0140c7009e5301e1d   micr...	Off	10.0.1.0/24
harshi subnet 1	subnet-084033fc6c63641a7	Available	vpc-03941eae4e597655   hars...	Off	10.0.1.0/24
-	subnet-0f5f1129e033ec328d	Available	vpc-0ad39d47bdf30890a	Off	172.31.1.0/24

**subnet-084033fc6c63641a7 / harshi subnet 1**

**Details**

Subnet ID	Subnet ARN	State	Block Public Access
subnet-084033fc6c63641a7	arn:aws:ec2:ap-southeast-1:471112860190:subnet/subnet-084033fc6c63641a7	Available	Off
IPv4 CIDR	Available IPv4 addresses	IPv6 CIDR	IPv6 CIDR association ID
10.0.1.0/24	249	-	-
Availability Zone	Availability Zone ID	Network border group	VPC
ap-southeast-1a	apse1-az2	ap-southeast-1	vpc-03941eae4e597655   harshi12-vpc
Route table	Default subnet	Customer-owned IPv4 pool	Auto-assign public IPv4 address
rtb-02ecf567e734bd5db   harshi route	Network ACL	-	No
Auto-assign IPv6 address	acl-03d51b09d4c2ac82f	-	Outpost ID

## Subnet 2:

The screenshot displays the AWS VPC console for the 'ap-southeast-1' region. The 'Subnets (1/11)' page is active, showing a list of subnets. The selected subnet is 'harshi subnet 2' (subnet-0463c3356623290b3). The details for this subnet are shown below the list.

Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
harshi subnet 2	subnet-0463c3356623290b3	Available	vpc-03941eae4e597655   hars...	Off	10.0.2.0/24
public subnet2	subnet-0934686f9eae05fa3	Available	vpc-014dc7dd9e330161d   micr...	Off	10.0.2.0/24

**subnet-0463c3356623290b3 / harshi subnet 2**

**Details**

Subnet ID	Subnet ARN	State	Block Public Access
subnet-0463c3356623290b3	arn:aws:ec2:ap-southeast-1:471112860190:subnet/subnet-0463c3356623290b3	Available	Off
IPv4 CIDR	Available IPv4 addresses	IPv6 CIDR	IPv6 CIDR association ID
10.0.2.0/24	251	-	-
Availability Zone	Availability Zone ID	Network border group	VPC
ap-southeast-1a	apse1-az2	ap-southeast-1	vpc-03941eae4e597655   harshi12-vpc
Route table	Default subnet	Customer-owned IPv4 pool	Auto-assign public IPv4 address
rtb-02ecf567e734bd5db   harshi route	Network ACL	-	No
Auto-assign IPv6 address	acl-03d51b09d4c2ac82f	-	Outpost ID

## Router Table:

The screenshot shows the AWS Management Console for the 'ap-southeast-1' region. The 'Route tables (1/10)' page is active, displaying a list of route tables. The 'harshi route' (rtb-02ecf567e734bd5db) is selected, and its details are shown in the 'Details' tab. The details include the Route table ID, VPC (vpc-03941eae4e597655), Main status (No), and Explicit subnet associations (2 subnets).

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
harshi route	rtb-02ecf567e734bd5db	2 subnets	-	No	vpc-03941eae4e597655
-	rtb-034701e18571481d1	-	-	Yes	vpc-014dc7dd9e33016
devika-rt	rtb-05117ccb866c7bafh	2 subnets	-	No	vpc-07ebc71c51fb9ec3
-	rtb-0ebfaafa819b79018	-	-	Yes	vpc-0ad39d47bdf3089c

**rtb-02ecf567e734bd5db / harshi route**

**Details**

Route table ID rtb-02ecf567e734bd5db	Main No	Explicit subnet associations 2 subnets	Edge associations -
VPC vpc-03941eae4e597655   harshi12-vpc	Owner ID 471112860190		

## Connection:

The screenshot shows the AWS Management Console for the 'ap-southeast-1' region. The 'Connect to instance' page is active for instance 'i-0ac2518bf50febe99' (harshitha). The 'SSH client' tab is selected, displaying instructions for connecting to the instance using an SSH client. The instructions include opening an SSH client, locating the private key file, running the 'chmod' command, and connecting to the instance using its Public IP (54.254.245.220). An example command is provided: `ssh -i "harshii-keypair.pem" ec2-user@54.254.245.220`. A note states: "Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username."

**Connect to instance**

Connect to your instance i-0ac2518bf50febe99 (harshitha) using any of these options

EC2 Instance Connect | Session Manager | **SSH client** | EC2 serial console

**Instance ID**  
i-0ac2518bf50febe99 (harshitha)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is harshii-keypair.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.  
chmod 400 "harshii-keypair.pem"
4. Connect to your instance using its Public IP:  
54.254.245.220

**Example:**  
ssh -i "harshii-keypair.pem" ec2-user@54.254.245.220

**Note:** In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

# Final Result:



## Welcome to My Simple HTML Page!

This is a basic webpage with a heading and a paragraph.

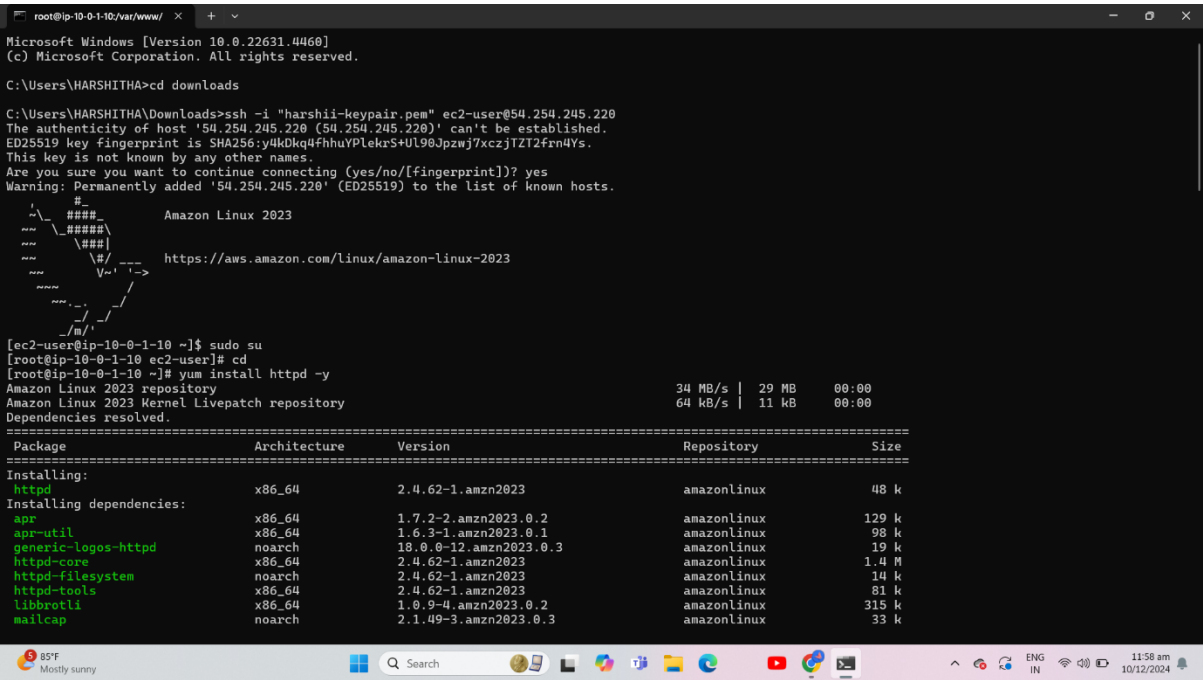
### About HTML

- HTML stands for HyperText Markup Language.
- It is used to create the structure of web pages.
- HTML uses elements like headings, paragraphs, and lists.

[Learn more about HTML](#)



# Command Prompts



```
root@ip-10-0-1-10:/var/www/ x + v
<title>Simple HTML Page</title>
</head>
<body>
<h1>Welcome to My Simple HTML Page!</h1>
<p>This is a basic webpage with a heading and a paragraph.</p>

<h2>About HTML</h2>
<ul>
<li>HTML stands for HyperText Markup Language.</li>
<li>It is used to create the structure of web pages.</li>
<li>HTML uses elements like headings, paragraphs, and lists.</li>
</ul>

<a href="https://www.w3schools.com" target="_blank">Learn more about HTML</a>
</body>
</html>

[root@ip-10-0-1-10 html]# systemctl start httpd
[root@ip-10-0-1-10 html]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[root@ip-10-0-1-10 html]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Tue 2024-12-10 05:43:24 UTC; 44s ago
     Docs: man:httpd.service(8)
  Main PID: 26431 (httpd)
    Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec:  0 B/sec"
    Tasks: 177 (limit: 1111)
   Memory: 13.0M
      CPU: 75ms
   CGroup: /system.slice/httpd.service
           └─26431 /usr/sbin/httpd -DFOREGROUND
             └─26451 /usr/sbin/httpd -DFOREGROUND
               └─26452 /usr/sbin/httpd -DFOREGROUND
                 └─26453 /usr/sbin/httpd -DFOREGROUND
                   └─26454 /usr/sbin/httpd -DFOREGROUND

Dec 10 05:43:24 ip-10-0-1-10.ap-southeast-1.compute.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Dec 10 05:43:24 ip-10-0-1-10.ap-southeast-1.compute.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Dec 10 05:43:24 ip-10-0-1-10.ap-southeast-1.compute.internal httpd[26431]: Server configured, listening on: port 80
[root@ip-10-0-1-10 html]#
```