

# WEB DEPLOYMENT PROJECT

## CREATING VPC

The screenshot shows the 'Create VPC' wizard in the AWS VPC console. The 'VPC settings' section on the left includes fields for 'Name tag auto-generation' (set to 'Auto-generate' with 'web\_deployment'), 'IPv4 CIDR block' (set to '10.0.0.0/16'), 'IPv6 CIDR block' (set to 'No IPv6 CIDR block'), and 'Tenancy' (set to 'Default'). The 'Preview' section on the right shows the 'VPC Show details' panel with the name 'web\_deployment-vpc'. It also displays four subnets under 'Subnets (4)' and three route tables under 'Route tables (3)'. The subnets are grouped by two availability zones: 'ap-south-1a' and 'ap-south-1b'. The route tables are associated with these subnets.

**Create VPC**

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances. Mouse over a resource to highlight the related resources.

**VPC settings**

**Resources to create**

Create only the VPC resource or the VPC and other networking resources.

VPC only  VPC and more

**Name tag auto-generation**

Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.

Auto-generate

**IPv4 CIDR block**

Determine the starting IP and the size of your VPC using CIDR notation.

10.0.0.0/16 65,536 IPv4 addresses

CIDR block size must be between /16 and /28.

**IPv6 CIDR block**

No IPv6 CIDR block  Amazon-provided IPv6 CIDR block

**Tenancy**

Default

**Preview**

**VPC** Show details Your AWS virtual network

web\_deployment-vpc

**Subnets (4)** Subnets within this VPC

ap-south-1a

- web\_deployment-subnet-public1-1
- web\_deployment-subnet-private1-1

ap-south-1b

- web\_deployment-subnet-public2-1
- web\_deployment-subnet-private2-1

**Route tables (3)** Route network traffic to resources

web\_deployment-rtb-public

- web\_deployment-rtb-private1-a
- web\_deployment-rtb-private2-a

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**VPC | ap-south-1**

[Create VPC Wizard](#)

**Create VPC workflow**

**Success**

**Details**

- Create VPC: vpc-07ddf4e1a905c4f7b
- Enable DNS hostnames
- Enable DNS resolution
- Verifying VPC creation: vpc-07ddf4e1a905c4f76
- Create S3 endpoint: vpc-04efe45c306dcfb98
- Create subnet: subnet-05609c691a93a1e1
- Create subnet: subnet-09206258f35686d07
- Create subnet: subnet-02dd6b743df76ddc
- Create subnet: subnet-0940cb9b7be25861
- Create internet gateway: igw-00ea590fb19d09a3
- Attach internet gateway to the VPC
- Create route table: rtb-0d706323e8f0b5a77
- Create route
- Associate route table
- Associate route table
- Create route table: rtb-0282dbe16e4eb22c
- Associate route table
- Create route table: rtb-08a5c8476d7fb1035
- Associate route table
- Verifying route table creation
- Associate S3 endpoint with private subnet route tables: vpc-04efe45c306dcfb98

https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1

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## CREATING EC2

The screenshot shows the AWS EC2 Launch Instance wizard. The first step, "Launch an instance | EC2 | ap-south-1", is selected. The configuration is as follows:

- Instance Type:** t3.micro (Free tier eligible)
- Key pair (login):** web\_deployment\_key
- Network settings:**
  - VPC - required: web\_deployment-vpc (10.0.0.16)
  - Subnet: subnet-05609c691a95a1e41 (vpc-07ddff4e1a905c4f76, Owner: 123455533950, Availability Zone: ap-south-1a (ap-s1-a2))
  - Auto-assign public IP: Enabled
- Summary:** Number of instances: 1
- Software Image (AMI):** Canonical, Ubuntu, 24.04, amd64 (ami-02bb239ad5e895954ef)
- Virtual server type (instance type):** t3.micro
- Firewall (security group):** New security group
- Storage (volumes):** 1 volume(s) - 8 GiB

The "Launch instance" button is highlighted.

The second step, "Launch an instance | EC2 | ap-south-1", is selected. The configuration is as follows:

- Security group:** web-deployment (This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and \_.)
- Description - required:** web-deployment created 2025-12-24T09:56:59.83Z
- Inbound Security Group Rules:**
  - Security group rule 1 (TCP: 22, 0.0.0.0/0):
    - Type: ssh
    - Protocol: TCP
    - Port range: 22
    - Source type: Anywhere
    - Source: 0.0.0.0/0
    - Description - optional: e.g. SSH for admin desktop
  - Security group rule 2 (TCP: 443, 0.0.0.0/0):
    - Type: HTTPS
    - Protocol: TCP
    - Port range: 443
    - Source type: Anywhere
    - Source: 0.0.0.0/0
    - Description - optional: e.g. SSL for admin desktop
- Summary:** Number of instances: 1
- Software Image (AMI):** Canonical, Ubuntu, 24.04, amd64 (ami-02bb239ad5e895954ef)
- Virtual server type (instance type):** t3.micro
- Firewall (security group):** New security group
- Storage (volumes):** 1 volume(s) - 8 GiB

The "Launch instance" button is highlighted.

## Connect to EC2=

Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1015-aws x86\_64)

- \* Documentation: <https://help.ubuntu.com>
- \* Management: <https://landscape.canonical.com>
- \* Support: <https://ubuntu.com/pro>

System information as of Wed Dec 24 10:14:04 UTC 2025

System Load:	Temperature:
0.08	-273.1 C
Usage of /:	29.6% of 6.71GB
Memory usage:	25%
Swap usage:	0%
Processes:	122
Users logged in:	1
IPv4 address for ens5:	10.0.14.243

Expanded Security Maintenance for Applications is not enabled.

74 updates can be applied immediately.  
28 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.  
See <https://ubuntu.com/esm> or run: sudo pro status

```
root@ip-10-0-14-243:/home/ubuntu$ systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
   Active: active (running) since Wed 2025-12-24 10:17:02 UTC; 2min 56s ago
     TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
      Main PID: 3218 (dockerd)
         Tasks: 9
        Memory: 109.1M (peak: 110.6M)
          CPU: 619ms
        CGroup: /system.slice/docker.service
                  └─3218 /usr/bin/dockerd -R fd:// --containerd=/run/containerd/containerd.sock

Dec 24 10:17:02 ip-10-0-14-243 dockerd[3218]: time="2025-12-24T10:17:02.099306532Z" level=info msg="Restoring containers: start."
Dec 24 10:17:02 ip-10-0-14-243 dockerd[3218]: time="2025-12-24T10:17:02.144633178Z" level=info msg="Deleting nftables IPv4 rules" error="exit status 1"
Dec 24 10:17:02 ip-10-0-14-243 dockerd[3218]: time="2025-12-24T10:17:02.150550112Z" level=info msg="Deleting nftables IPv6 rules" error="exit status 1"
Dec 24 10:17:02 ip-10-0-14-243 dockerd[3218]: time="2025-12-24T10:17:02.458193692Z" level=info msg="Loading containers: done."
Dec 24 10:17:02 ip-10-0-14-243 dockerd[3218]: time="2025-12-24T10:17:02.636714302Z" level=info msg="Docker daemon" commit=fbf3ed2 containerd=snapshotted=true storage-driver=overlay
...
Dec 24 10:17:02 ip-10-0-14-243 dockerd[3218]: time="2025-12-24T10:17:02.636671376Z" level=info msg="Initializing buildkit"
Dec 24 10:17:02 ip-10-0-14-243 dockerd[3218]: time="2025-12-24T10:17:02.686336316Z" level=info msg="Completed buildkit initialization"
Dec 24 10:17:02 ip-10-0-14-243 dockerd[3218]: time="2025-12-24T10:17:02.696068232Z" level=info msg="Daemon has completed initialization"
Dec 24 10:17:02 ip-10-0-14-243 dockerd[3218]: time="2025-12-24T10:17:02.696279430Z" level=info msg="API listen on /run/docker.sock"
Dec 24 10:17:02 ip-10-0-14-243 systemd[1]: Started docker.service - Docker Application Container Engine.
... skipping...
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
   Active: active (running) since Wed 2025-12-24 10:17:02 UTC; 2min 56s ago
     TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
      Main PID: 3218 (dockerd)

```

i-02e2492c1cd081703 (web-deployment)

PublicIPs: 13.201.71.165 PrivateIPs: 10.0.14.243

CloudShell Feedback Console Mobile App

30°C

## CREATING EC2

Instances | EC2 | ap-south-1    EC2 Instance Connect | ap-south-1    EC2 Instance Connect | ap-south-1

<https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/shell/home?region=ap-south-1&connType=standard&instanceId=i-02e2492c1cd081703&osUser=ubuntu&sshPort=22&a...>

All Bookmarks

Account ID: 123-855-3950 ▾ Asia Pacific (Mumbai) ▾ varshini.saravanan

Search [Alt+S] 🔍

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```

docker-buildx-plugin docker-ce-rootless-extras docker-compose-plugin libslirp0 pigz slirp4netns
Suggested packages:
  cgroup-lite docker-model-plugin
The following NEW packages will be installed:
  containerd.io docker-buildx-plugin docker-ce-cli docker-ce-rootless-extras docker-compose-plugin libslirp0 pigz slirp4netns
0 upgraded, 9 newly installed, 0 to remove and 60 not upgraded.
Need to get 91.3 MB of archives.
After this operation, 364 MB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/nobie/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/nobie/main amd64 libslirp0 amd64 4.7.0-1ubuntu3 [63.8 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/nobie/universe amd64 slirp4netns amd64 1.2.1-1build2 [34.9 kB]
Get:4 https://download.docker.com/linux/ubuntu/nobie/stable amd64 containerd.io amd64 2.2.1-1ubuntu24.04-noble [23.4 MB]
Get:5 https://download.docker.com/linux/ubuntu/nobie/stable amd64 docker-ce amd64 5:29.1.3-1ubuntu24.04-noble [16.3 MB]
Get:6 https://download.docker.com/linux/ubuntu/nobie/stable amd64 docker-ce-rootless-extras amd64 5:29.1.3-1ubuntu24.04-noble [16.4 MB]
Get:7 https://download.docker.com/linux/ubuntu/nobie/stable amd64 docker-buildx-plugin amd64 0.30.1-1ubuntu24.04-noble [16.4 MB]
Get:8 https://download.docker.com/linux/ubuntu/nobie/stable amd64 docker-compose-plugin amd64 5.0.0-1ubuntu24.04-noble [7709 kB]
Fetched 91.3 MB in 1s (84.8 MB/s)
Selecting previously unselected package containerd.io.
(Reading database ... 71735 files and directories currently installed.)
Preparing to unpack .../0-containerd.io_2.2.1-1ubuntu24.04-noble_amd64.deb ...
Unpacking containerd.io (2.2.1-1ubuntu24.04-noble) ...
Selecting previously unselected package docker-ce-cli.
Preparing to unpack .../1-docker-ce-cli_5%3a29.1.3-1ubuntu24.04-noble_amd64.deb ...
Unpacking docker-ce-cli (5:29.1.3-1ubuntu24.04-noble) ...
Selecting previously unselected package docker-ce.
Preparing to unpack .../2-docker-ce_5%3a29.1.3-1ubuntu24.04-noble_amd64.deb ...
Unpacking docker-ce (5:29.1.3-1ubuntu24.04-noble) ...
Selecting previously unselected package pigz.
Preparing to unpack .../3-pigz_2.8-1_amd64.deb ...
Unpacking pigz (2.8-1) ...
i-02e2492c1cd081703 (web-deployment)
PublicIPs: 13.201.71.165 PrivateIPs: 10.0.14.243

```

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```

Setting up docker-compose-plugin (5.0.0-1ubuntu24.04-noble) ...
Setting up docker-ce-cli (5:29.1.3-1ubuntu24.04-noble) ...
Setting up libslirp0:amd64 (4.7.0-1ubuntu3) ...
Setting up pigz (2.8-1) ...
Setting up docker-ce-rootless-extras (5:29.1.3-1ubuntu24.04-noble) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up docker-buildx-plugin (5:29.1.3-1ubuntu24.04-noble) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for man-db (2.12.0-4ubuntu2) ...
Processing triggers for libc-bin (2.39-0ubuntu9.6) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-10-0-14-243:/home/ubuntu# systemctl start docker
root@ip-10-0-14-243:/home/ubuntu# systemctl enable docker
Synchronizing state of docker.service with /sysv service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable docker
root@ip-10-0-14-243:/home/ubuntu# systemctl status docker
* docker.service - Docker Application Container Engine

```

i-02e2492c1cd081703 (web-deployment)

PublicIPs: 13.201.71.165 PrivateIPs: 10.0.14.243

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Connect to instance | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1 | +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstanceInstanceId=i-02e2492c1cd081703

All Bookmarks

EC2 Instances i-02e2492c1cd081703 Connect to instance

**Connect** Info

Connect to an instance using the browser-based client.

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

**Instance ID** i-02e2492c1cd081703 (web-deployment)

**Connection type**

- Connect using a Public IP Connect using a public IPv4 or IPv6 address.
- Connect using a Private IP Connect using a private IP address and a VPC endpoint.

**Public IPv4 address** 13.201.71.165

IPv6 address

**Username** Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

ubuntu

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

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Last login: Wed Dec 24 10:14:05 2025 from 13.233.177.5

```
ubuntu@ip-10-0-14-243:~$ docker --version
Docker version 29.1.3, build f52814d
ubuntu@ip-10-0-14-243:~$ mkdir my-website
ubuntu@ip-10-0-14-243:~$ cd my-website
ubuntu@ip-10-0-14-243:~/my-website$ pwd
/home/ubuntu/my-website
ubuntu@ip-10-0-14-243:~/my-website$ sudo apt install git -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.3).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 68 not upgraded.
ubuntu@ip-10-0-14-243:~/my-website$ git --version
git version 2.43.0
ubuntu@ip-10-0-14-243:~/my-website$ git clone https://github.com/kayal-del/frontend-aitech.git .
Cloning into '.'...
remote: Enumerating objects: 66, done.
remote: Counting objects: 100% (66/66), done.
remote: Compressing objects: 100% (66/66), done.
remote: Total 66 (delta 17), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (66/66), 11.63 MB | 7.96 MB/s.
Resolving deltas: 100% (17/17), done.
ubuntu@ip-10-0-14-243:~/my-website$ ls
'Cheese Nachos.html' 'Grilled Paneer.jpg' appstore.png.jpeg contact.html heart.jpg 'palya soorur.html' 'salty food2.jpg'
'Cheese Nachos.jpg' 'Ice Cream Sundae.jpg' background1.jpg dish1.jpg hotel.jpg panipuri.html signup.html
'Chicken Swarna.html' 'Mini Burgers.html' background2.jpg dish2.jpg ice.html payment.html style.css
```

i-02e2492c1cd081703 (web-deployment)

PublicIP: 13.201.71.165 PrivateIP: 10.0.14.243

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Instances | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1 | EC2 Instance Connect | ap-south-1 | EC2 Instance Connect | ap-south-1 | [no subject] - varshinisaravanan | +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/sshd/home?region=ap-south-1&connType=standard&instanceId=i-02e2492c1cd081703&osUser=ubuntu&sshPort=22&address=13.201.71.165

All Bookmarks

Amazon AWS Search [Alt+S]

Account ID: 123456789012 | Asia Pacific (Mumbai) | varshini.saravanan

```

Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1015-aws x86_64)

Documentation: https://help.ubuntu.com
Management: https://landscape.canonical.com
Support: https://ubuntu.com/pro

System information as of Wed Dec 24 10:51:09 UTC 2023

System load: 0.0 Temperature: -273.1 C
Usage of /: 37.6% of 6.71GB Processes: 119
Memory usage: 31% Users logged in: 0
Swap usage: 0% IPv4 address for ens5: 10.0.14.243

expanded Security Maintenance for Applications is not enabled.

updates can be applied immediately.
of these updates are standard security updates.
see these additional updates run: apt list --upgradable

able ESM Apps to receive additional future security updates.
e https://ubuntu.com/esm or run: sudo pro status

st login: Wed Dec 24 10:24:37 2023 from 13.233.177.4
ubuntu@ip-10-0-14-243:~$ sudo su
root@ip-10-0-14-243:/home/ubuntu# ls
$ '^04'      my-website
root@ip-10-0-14-243:/home/ubuntu# cd my-website/
root@ip-10-0-14-243:/home/ubuntu/my-website# ls
cheese Nachos.html          'Grilled Paneer.html'
cheese Nachos.jpg           account.html
cheese Nachos.jpeg          choco.mp4
cheese Nachos.jpeg          'fruit salad.html'
cheese Nachos.jpeg          ordernow1.html
cheese Nachos.jpeg          'salty food1.jpg'

i-02e2492c1cd081703 (web-deployment)
PublicIPs: 13.201.71.165 PrivateIPs: 10.0.14.243

```

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Instances | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1 | EC2 Instance Connect | ap-south-1 | EC2 Instance Connect | ap-south-1 | [no subject] - varshini.saravanan | +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/sshd/home?region=ap-south-1&connType=standard&instanceId=i-02e2492c1cd081703&osUser=ubuntu&sshPort=22&address=13.201.71.165

All Bookmarks

Amazon AWS Search [Alt+S]

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```

Cheese Nachos.jpg          'Grilled Paneer.jpg'
'Chicken Swarma.html'     'Ice Cream Sundae.jpg'
'Chocolate Muffin.jpg'    'Mini Burgers.html'
'Cold coffee.jpg'         'Mini Burgers.jpg'
'Doctorfile'              'Strawberry Kulfi.html'
'Fafafel wrap.html'       'Veggie Sandwich.jpg'
'Fafafel Wrap.jpg.jpeg'   'Vintage airmail envelope with stamps.png'
'Fruit Salad.jpg'         'about.html'
root@ip-10-0-14-243:/home/ubuntu/my-website# vim about.html

/bin/bash: line 1: d: command not found
shell returned 127

Press ENTER or type command to continue
root@ip-10-0-14-243:/home/ubuntu/my-website# vim account.html
root@ip-10-0-14-243:/home/ubuntu/my-website# vim cart.html
root@ip-10-0-14-243:/home/ubuntu/my-website# vim cheese Nachos.html
2 files to edit
root@ip-10-0-14-243:/home/ubuntu/my-website# vim cheese Nachos.html
2 files to edit

/bin/bash: line 1: q: command not found
shell returned 127

Press ENTER or type command to continue
root@ip-10-0-14-243:/home/ubuntu/my-website# vim Cheese\ Nachos.
Cheese Nachos.html  Cheese Nachos.jpg
root@ip-10-0-14-243:/home/ubuntu/my-website# vim Cheese\ Nachos.html
root@ip-10-0-14-243:/home/ubuntu/my-website# vim Cheese\ pizza.html

i-02e2492c1cd081703 (web-deployment)
PublicIPs: 13.201.71.165 PrivateIPs: 10.0.14.243

```

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Instances | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1 | EC2 Instance Connect | ap-south-1 | EC2 Instance Connect | ap-south-1 | [no subject] - varshinisaravanan | +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/sshd/home?region=ap-south-1&connType=standard&instanceId=i-02e2492c1cd081703&osUser=ubuntu&sshPort=22&address=13.201.71.165

All Bookmarks

Amazon AWS Search [Alt+S]

Account ID: 123456789012 | Asia Pacific (Mumbai) | varshini.saravanan

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st login: Wed Dec 24 10:24:37 2023 from 13.233.177.4
ubuntu@ip-10-0-14-243:~$ sudo su
root@ip-10-0-14-243:/home/ubuntu# ls
$ '^04'      my-website
root@ip-10-0-14-243:/home/ubuntu# cd my-website/
root@ip-10-0-14-243:/home/ubuntu/my-website# ls
cheese Nachos.html          'Grilled Paneer.html'
cheese Nachos.jpg           account.html
cheese Nachos.jpeg          choco.mp4
cheese Nachos.jpeg          'fruit salad.html'
cheese Nachos.jpeg          ordernow1.html
cheese Nachos.jpeg          'salty food1.jpg'

i-02e2492c1cd081703 (web-deployment)
PublicIPs: 13.201.71.165 PrivateIPs: 10.0.14.243

```

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Instances | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1 | EC2 Instance Connect | ap-south-1 | EC2 Instance Connect | ap-south-1 | [no subject] - varshini.saravanan | +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/sshd/home?region=ap-south-1&connType=standard&instanceId=i-02e2492c1cd081703&osUser=ubuntu&sshPort=22&address=13.201.71.165

All Bookmarks

Amazon AWS Search [Alt+S]

Account ID: 123456789012 | Asia Pacific (Mumbai) | varshini.saravanan

```

Cheese Nachos.jpg          'Grilled Paneer.jpg'
'Chicken Swarma.html'     'Ice Cream Sundae.jpg'
'Chocolate Muffin.jpg'    'Mini Burgers.html'
'Cold coffee.jpg'         'Mini Burgers.jpg'
'Doctorfile'              'Strawberry Kulfi.html'
'Fafafel wrap.html'       'Veggie Sandwich.jpg'
'Fafafel Wrap.jpg.jpeg'   'Vintage airmail envelope with stamps.png'
'Fruit Salad.jpg'         'about.html'
root@ip-10-0-14-243:/home/ubuntu/my-website# vim about.html

/bin/bash: line 1: d: command not found
shell returned 127

Press ENTER or type command to continue
root@ip-10-0-14-243:/home/ubuntu/my-website# vim account.html
root@ip-10-0-14-243:/home/ubuntu/my-website# vim cart.html
root@ip-10-0-14-243:/home/ubuntu/my-website# vim cheese Nachos.html
2 files to edit
root@ip-10-0-14-243:/home/ubuntu/my-website# vim cheese Nachos.html
2 files to edit

/bin/bash: line 1: q: command not found
shell returned 127

Press ENTER or type command to continue
root@ip-10-0-14-243:/home/ubuntu/my-website# vim Cheese\ Nachos.
Cheese Nachos.html  Cheese Nachos.jpg
root@ip-10-0-14-243:/home/ubuntu/my-website# vim Cheese\ Nachos.html
root@ip-10-0-14-243:/home/ubuntu/my-website# vim Cheese\ pizza.html

i-02e2492c1cd081703 (web-deployment)
PublicIPs: 13.201.71.165 PrivateIPs: 10.0.14.243

```

CloudShell Feedback Console Mobile App

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The screenshot shows a web browser window with several tabs open, all related to EC2 Instance Connect sessions. The tabs are labeled 'Instances | EC2 | ap-south-1', 'EC2 Instance Connect | ap-south-1', 'EC2 Instance Connect | ap-south-1', 'EC2 Instance Connect | ap-south-1', and '(no subject) - varshinisaravanan'. The main content area displays a terminal session on an Ubuntu 24.04.3 LTS instance (root@ip-10-0-14-243). The user has run several commands to edit files like 'Cheese Nachos.html' and 'cheese\ pizza.html' using vim, but receives errors due to syntax issues. The session ends with a command to start a deployment.

```
root@ip-10-0-14-243:/home/ubuntu/my-website# vim Cheese\ Nachos.
Cheese Nachos.html: Cheese Nachos.jpg
root@ip-10-0-14-243:/home/ubuntu/my-website# vim Cheese\ Nachos.html
root@ip-10-0-14-243:/home/ubuntu/my-website# vim Cheese\ pizza.html
/bin/bash: line 1: q: command not found
shell returned 127
Press ENTER or type command to continue
/bin/bash: line 1: q: command not found
shell returned 127
Press ENTER or type command to continue
/bin/bash: line 1: q: command not found
shell returned 127
Press ENTER or type command to continue
/bin/bash: line 1: q: command not found
shell returned 127
Press ENTER or type command to continue
root@ip-10-0-14-243:/home/ubuntu/my-website# vim cheese\ pizza.html
root@ip-10-0-14-243:/home/ubuntu/my-website# vim cheese\pizza.html
root@ip-10-0-14-243:/home/ubuntu/my-website# vim cheese
cheese
cheese pizza.html
root@ip-10-0-14-243:/home/ubuntu/my-website# vim cheese\ pizza.html
root@ip-10-0-14-243:/home/ubuntu/my-website#
```

i-02e2492c1cd081703 (web-deployment)

PublicIP: 13.201.71.165 PrivateIP: 10.0.14.243

CloudShell Feedback Console Mobile App

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This screenshot shows a second terminal session on the same Ubuntu 24.04.3 LTS instance. It displays the system's welcome message and various system status metrics such as load average, memory usage, and swap usage. It also shows the user's last login details and a file listing in the current directory.

```
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1015-aws x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro

System information as of Wed Dec 24 15:40:04 UTC 2025

System load: 0.32 Temperature: -273.1 C
Usage of /: 37.8% of 6.71GB Processes: 122
Memory usage: 31% Users logged in: 0
Swap usage: 0% IPv4 address for ens5: 10.0.14.243

Expanded Security Maintenance for Applications is not enabled.

74 updates can be applied immediately.
28 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Dec 24 15:32:10 2025 from 13.233.177.3
ubuntu@ip-10-0-14-243:~$ sudo su
root@ip-10-0-14-243:/home/ubuntu# ls
'*$^004' my-website
root@ip-10-0-14-243:/home/ubuntu# cd my-website
root@ip-10-0-14-243:/home/ubuntu/my-website# ls
'Cheese Nachos.html' 'Grilled Fanees.jpg'
background1.jpg dishi.jpg ice.html pickle.html ten.mp4
```

i-02e2492c1cd081703 (web-deployment)

PublicIPs: 13.201.71.165 PrivateIPs: 10.0.14.243

i-02e2492c1cd081703 (web-deployment)

PublicIPs: 13.201.71.165 PrivateIPs: 10.0.14.243

```
--> Transferring dockerfile... 0B
=> [internal] load metadata for docker.io/library/nginx:alpine
=> [internal] load .dockerignore
=> transferring context: 2B
=> [internal] load build context
=> transferring context: 25.0B
=> CAUCHY [1/2] FROM docker.io/library/nginx:alpine@sha256:6491759590e6739b7fccc285d91ld9912ce2666e07bd3dd8db00020ad032295
=> > resolve docker.io/library/nginx:alpine@sha256:6491759590e6739b7fccc285d91ld9912ce2666e07bd3dd8db00020ad032295
=> [2/2] COPY ./usr/share/nginx/html
=> exporting to image
=> exporting layers
=> exporting manifest sha256:e6ff558814a5e643bb9e7f6fa80f029c3a293e555ash423d94dd7c31cd61431
=> => exporting configuration manifest sha256:17b0d4fc57309633b98363e05ef299ac67d9143e6de5a17717be33bd2fd1e1
=> => exporting intermediate manifest sha256:17b0d4fc57309633b98363e05ef299ac67d9143e6de5a17717be33bd2fd1e1
=> => exporting manifest list sha192:22f0337ca9515282fdade8b991410978ecc74ac64019d9321b3a401a0d3d
=> => naming to docker.io/library/frontend-aitech:latest
=> uncorking to docker.io/library/frontend-aitech:latest
root@ip-10-0-14-243:/home/ubuntu/my-website# docker images
[{"Info": "Info", "Use": "In Use"}]
IMAGE          ID            CREATED        SIZE
frontend-aitech.latest  2ff05377ca5b  11MB         47.4MB
root@ip-10-0-14-243:/home/ubuntu/my-website# docker run -d -p 80:80 frontend-aitech
eabb0bc87ccdaafac071a4ae1c7da5be6aaf12a163f74d8ea6ca3618d
docker: Error response from daemon: failed to set up container networking: driver failed programming external connectivity on endpoint modest_spence (4ec72697d5abf93ed3f7836b27597042f8a37df0a90ff17d93d47d9ebc): Bind for 0.0.0.0:80 failed: port is already allocated
run 'docker run --help' for more information
root@ip-10-0-14-243:/home/ubuntu/my-website# docker ps
CONTAINER ID   IMAGE      COMMAND       CREATED     STATUS    PORTS     NAMES
5ccfcceas50ab   b5dc084239f# "/docker-entrypoint..."  5 hours ago   Up 5 hours  0.0.0.0:80->80/tcp, ::1:80/tcp   clever_black
root@ip-10-0-14-243:/home/ubuntu/my-website#
```

Instances | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#instances:

EC2 > Instances

Instances (1/1) info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public
web-deploy...	i-02e2492c1cd081703	Running	t3.micro	3/3 checks passed	View alarms +	ap-south-1a	ec2-15-127-104-73.ap...	15.127

i-02e2492c1cd081703 (web-deployment)

Details Status and alarms Monitoring Security Networking Storage Tags

Status checks Info

Status checks detect problems that may impair i-02e2492c1cd081703 (web-deployment) from running your applications.

System status checks System reachability check passed

Instance status checks Instance reachability check passed

Attached EBS status checks Attached EBS reachability check passed

Metrics

Alarms

Recently launched instances can take up to 5 minutes to display associated alarms.

CloudShell Feedback Console Mobile App

Connect to instance | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance\$instanceId=i-02e2492c1cd081703

EC2 > Instances > i-02e2492c1cd081703 > Connect to instance

Connect Info

Connect to an instance using the browser-based client.

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID i-02e2492c1cd081703 (web-deployment)

Connection type

Connect using a Public IP  
Connect using a public IPv4 or IPv6 address.

Connect using a Private IP  
Connect using a private IP address and a VPC endpoint.

Public IPv4 address 15.127.104.73

IPv6 address

Username

Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

ubuntu

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

Cancel Connect

CloudShell Feedback Console Mobile App

Instances | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1 | Temptify|CRAVINGS | +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/shh/home?addressFamily=ipv4&connType=standard&instanceId=i-02e2492c1cd081703&osUser=ubuntu&region=ap-south-1... Search All Bookmarks

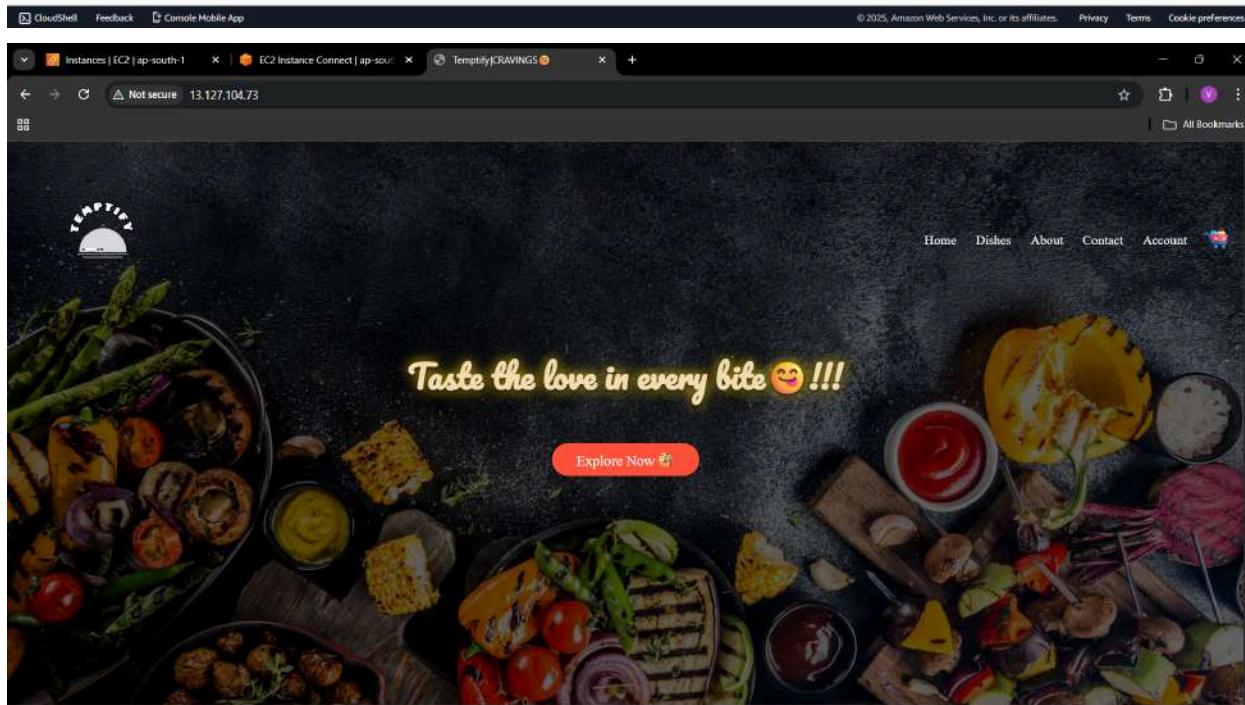
Account ID: 1223-8553-3950 ▾ Asia Pacific (Mumbai) ▾ vashini%20saravanan

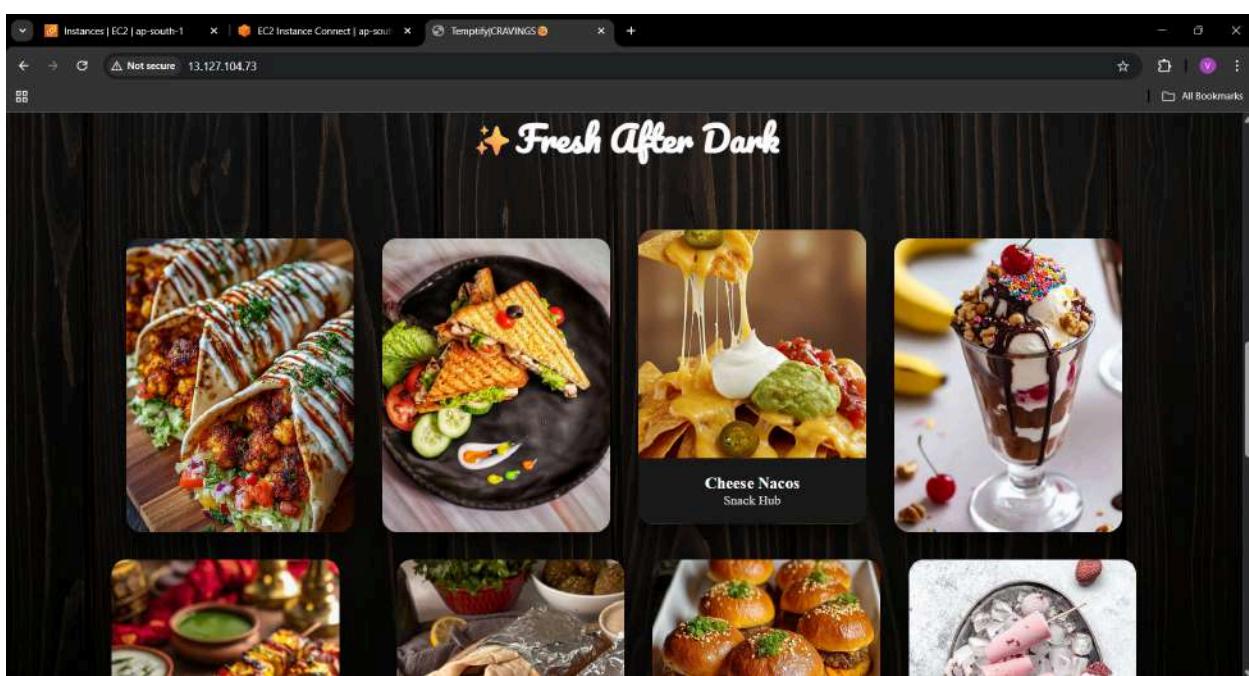
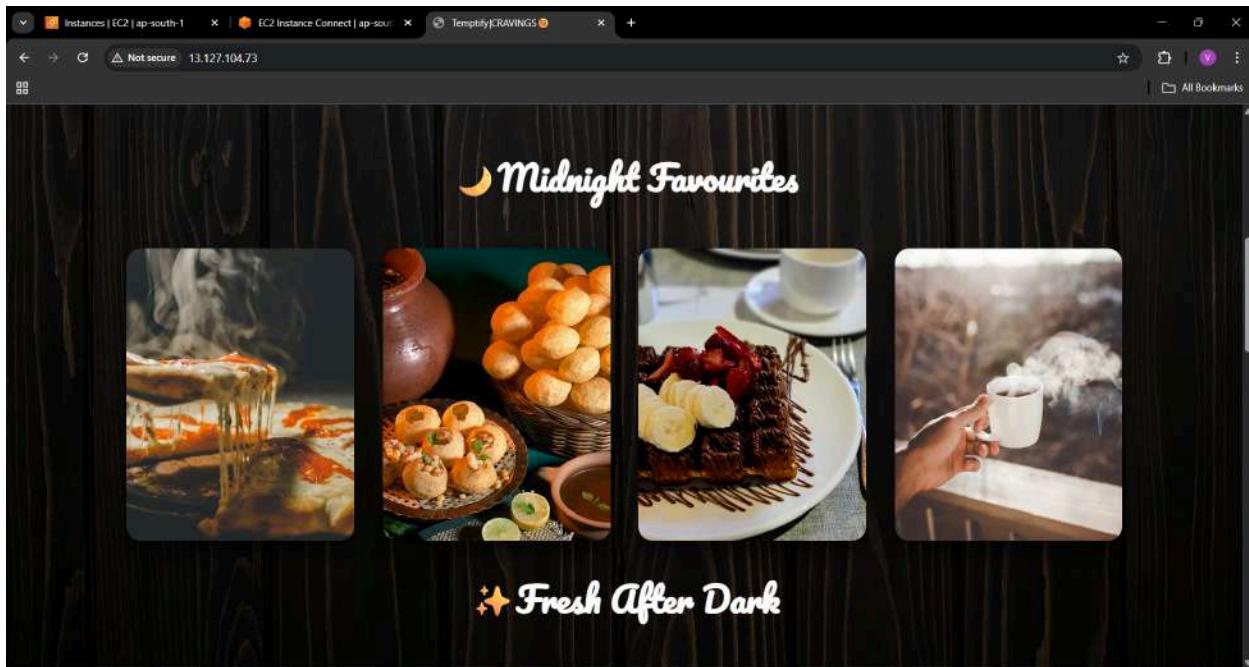
```
root@ip-10-0-14-243:/home/ubuntu/my-website# docker build -t frontend-aitech .
[*] Building 1.8s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> [internal] load metadata for docker.io/library/nginx:alpine
=> [internal] load .dockerignore
=> transferring context 2B
=> internal load build context
=> >> transferring context: 4.16kB
=> FROM docker.io/library/nginx:alpine@sha256:849179529906739b7f0c6285d531d9912ce2666e27bd3dd0db0020ad130295
=> >> resolve docker.io/library/nginx:alpine@sha256:849179529906739b7f0c6285d531d9912ce2666e27bd3dd0db0020ad130295
=> CACHE (2/2) copy ./www/share/nginx/html
=> exporting to image
=> >> exporting layers
=> >> exporting manifest sha256:edf359f16a5c6639b9a77f68a9d0f029c3429355aeb4235d94d37a11c063431
=> >> exporting config sha256:edf359f16a5c6639b9a77f68a9d0f029c3429355aeb4235d94d37a11c063431
=> >> exporting manifest list sha256:b37502aef05f13152aa5dc7c7a567e0009311fcd5c9a1c06e
=> >> naming to docker.io/library/frontend-aitech:latest
=> >> unpacking to docker.io/library/frontend-aitech:latest
root@ip-10-0-14-243:/home/ubuntu/my-website# docker images
```

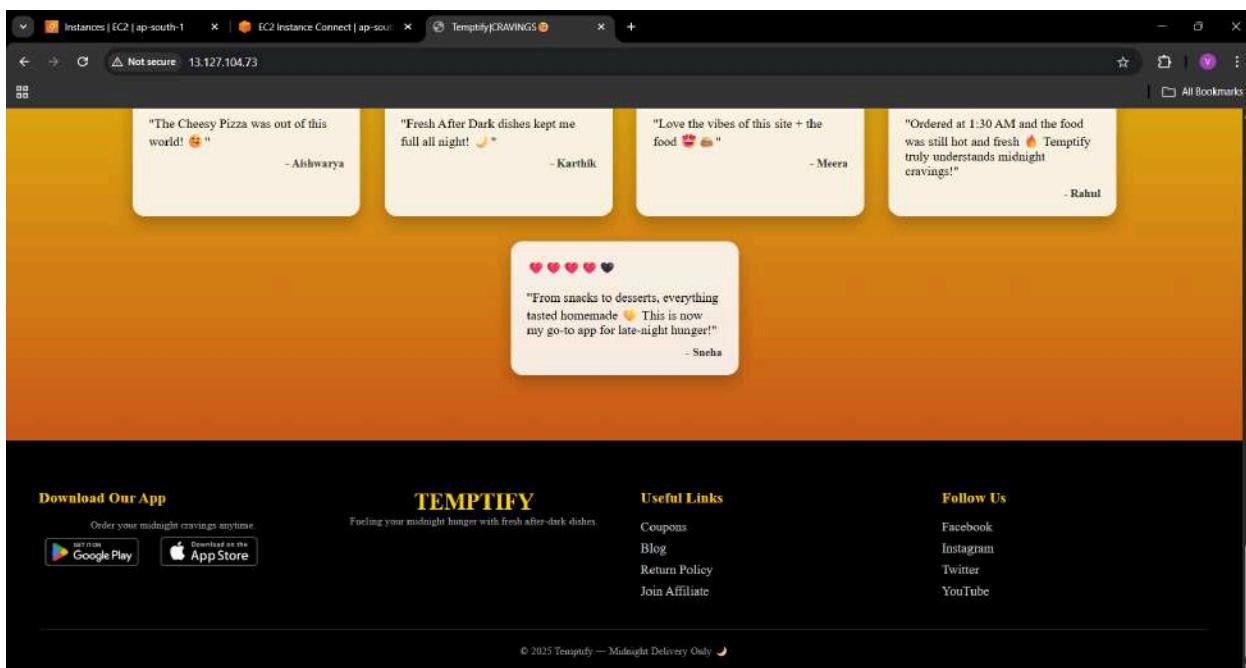
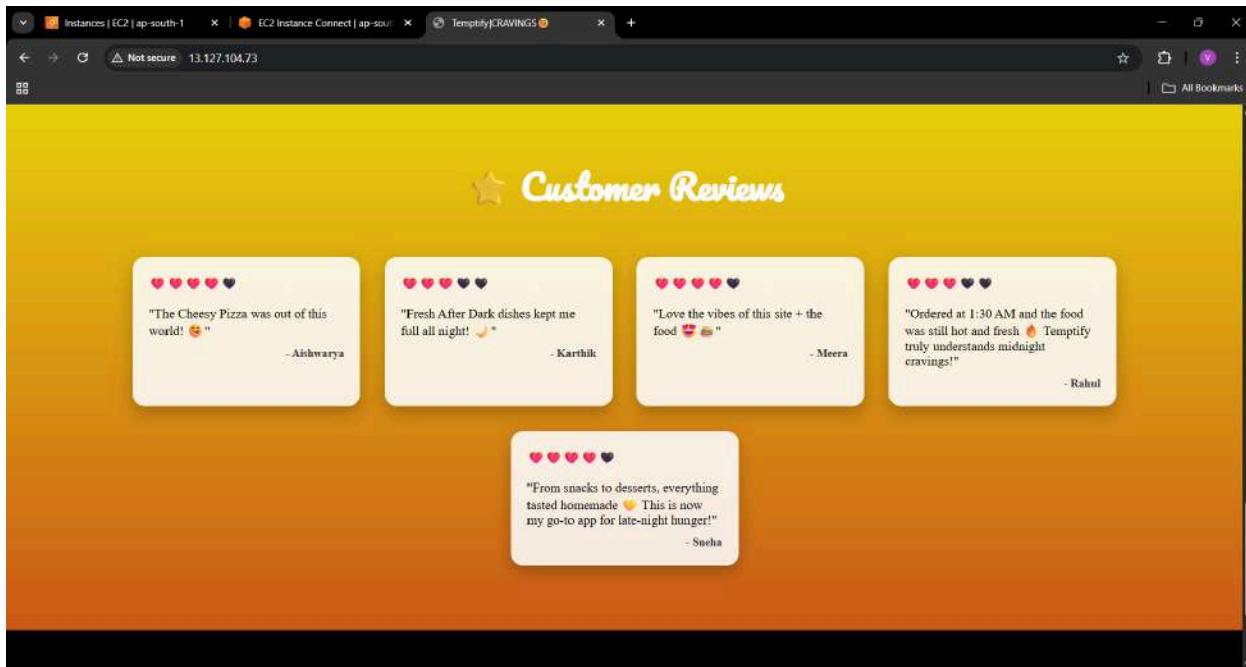
IMAGE	ID	DISK USAGE	CONTENT SIZE	EXTRA	
frontend-aitech:latest	b575c2efb2a6	131MB	47.4MB		
root@ip-10-0-14-243:/home/ubuntu/my-website# docker run -d -p 80:80 frontend-aitech	E37a1ae6b76b7637995a12c5c63440d4d7a3c63bc9dc2d8ced509ded4a67				
root@ip-10-0-14-243:/home/ubuntu/my-website# docker ps	CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES				
root@ip-10-0-14-243:/home/ubuntu/my-website#	E37a1ae6b76b7637995a12c5c63440d4d7a3c63bc9dc2d8ced509ded4a67	12 seconds ago	Up 12 seconds	0.0.0.0:80->80/tcp, [::]:80->80/tcp	sleepy_hawking

i-02e2492c1cd081703 (web-deployment)  
PublicIPs: 15.127.104.73 PrivateIPs: 10.0.14.243

CloudShell Feedback Console Mobile App







The screenshot shows the AWS ECR service page. On the left, there's a sidebar with navigation links for EC2, Instances, Images, and Elastic Block Devices. The main content area has two sections: 'Services' and 'Features'. Under 'Services', there are cards for 'Elastic Container Registry' (Fully-managed Docker container registry), 'Secrets Manager' (Easily rotate, manage, and retrieve secrets throughout their lifecycle), and 'Key Management Service' (Securely Generate and Manage AWS Encryption Keys). Under 'Features', there are cards for 'Repositories' (Elastic Container Registry feature), 'Private registry' (Elastic Container Registry feature), and 'Container Recipes' (EC2 Image Builder feature). A sidebar on the right shows 'Private IP' and 'Public D' details. At the bottom, there's a 'Create private repository' form.

Instances | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1 | Temptify|CRAVINGS | +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:

aws EC2 Services Ask Amazon Q X

EC2 Services Documentation Knowledge articles Marketplace Blog posts Events Tutorials

Elastic Container Registry Fully-managed Docker container registry : Share and deploy container software, pub...

Top features Repositories Private registry Managed image signing

Secrets Manager Easily rotate, manage, and retrieve secrets throughout their lifecycle

Key Management Service Securely Generate and Manage AWS Encryption Keys

Show more

Were these results helpful? Yes No

Answer private resource DNS name

Instance types

Private IP 10.0

Public D ec2-13-1 address

Were these results helpful? Yes No

Create private repository

General settings

Repository name Enter a concise name. Repositories support namespaces, which you can use to group similar repositories. 122585533950.dkr.ecr.ap-south-1.amazonaws.com/ namespace/repo-name

Image tag settings

Image tag mutability Choose the tag mutability setting.  Mutable Image tags can be overwritten.  Immutable Image tags can't be overwritten.

Mutable tag exclusions Tag that match these filters will be immutable (can't be overwritten). Using wildcards (\*) will match zero or more image tag characters. Add Filter

Filters must only contain letters, numbers, and special characters (-\_./). Each filter is limited to 128 characters, 2 wildcards (\*), and you can add up to 5 filters in the exclusion list.

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Screenshot of the AWS Elastic Container Registry (ECR) console showing the 'Create private repository' page.

The URL in the browser is `ap-south-1.console.aws.amazon.com/ecr/private-registry/repositories/create?region=ap-south-1`.

The page includes a feedback rating section with five stars and a search bar.

The main content area shows the 'Encryption settings' configuration:

- A warning message: "The encryption settings for a repository can't be changed once the repository is created."
- Encryption configuration:** By default, repositories use the industry standard Advanced Encryption Standard (AES) encryption. You can optionally choose to use a key stored in the AWS Key Management Service (KMS) to encrypt the images in your repository.
- AES-256**: Industry standard Advanced Encryption Standard (AES) encryption.
- AWS KMS**: AWS Key Management Service (KMS).

Below the encryption settings, there is a section for **Image scanning settings - deprecated**.

At the bottom right are 'Cancel' and 'Create' buttons.

Page footer: CloudShell, Feedback, Console Mobile App, © 2025, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, Cookie preferences.

Screenshot of the AWS Elastic Container Registry (ECR) console showing a private repository named "web-deployment".

**Private repositories (1)**

Repository name	URI	Created at	Tag immutability	Encryption type
web-deployment	122385533950.dkr.ecr.ap-south-1.amazonaws.com/web-deployment	December 26, 2025, 10:29:43 (UTC+0.5)	Mutable	AES-256

**CloudShell** Feedback Console Mobile App

```

inflating: aws/dist/awscli/customizations/wizard/wizards/events/new-rule.yaml
inflating: aws/dist/awscli/customizations/wizard/wizards/dynamodb/new-table.yaml
inflating: aws/dist/awscli/customizations/wizard/wizards/iam/new-role.yaml
inflating: aws/dist/awscli/customizations/wizard/wizards/lambda/new-function.yaml
inflating: aws/dist/awscli/data/clickhouse
inflating: aws/dist/awscli/data/ac_index
inflating: aws/dist/awscli/data/metadata.json
creating: aws/dist/prompt_toolkit-3.0.51.dist-info/licenses/
inflating: aws/dist/prompt_toolkit-3.0.51.dist-info/METADATA
inflating: aws/dist/prompt_toolkit-3.0.51.dist-info/WHEEL
inflating: aws/dist/prompt_toolkit-3.0.51.dist-info/RECORD
inflating: aws/dist/prompt_toolkit-3.0.51.dist-info/top_level.txt
inflating: aws/dist/prompt_toolkit-3.0.51.dist-info/INSTALLER
inflating: aws/dist/prompt_toolkit-3.0.51.dist-info/licenses/AUTHORS.rst
inflating: aws/dist/prompt_toolkit-3.0.51.dist-info/licenses/LICENSE
inflating: aws/dist/wheel-0.45.1.dist-info/DESCRIPTION
inflating: aws/dist/wheel-0.45.1.dist-info/INSTALLER
inflating: aws/dist/wheel-0.45.1.dist-info/EXPECTED
inflating: aws/dist/wheel-0.45.1.dist-info/LICENSE.txt
inflating: aws/dist/wheel-0.45.1.dist-info/METADATA
inflating: aws/dist/wheel-0.45.1.dist-info/RECORD
inflating: aws/dist/wheel-0.45.1.dist-info/WHEEL
inflating: aws/dist/wheel-0.45.1.dist-info/entry_points.txt
root@ip-10-0-14-243:/home/ubuntu/my-website# aws --version
Command 'aws' not found, but can be installed with:
apt install awscli
root@ip-10-0-14-243:/home/ubuntu/my-website# sudo ./aws/install
You can now run: /usr/local/bin/aws --version
root@ip-10-0-14-243:/home/ubuntu/my-website# aws --version
aws-cli/2.32.23 Python/3.13.11 Linux/6.14.0-1015-aws exe/x86_64.ubuntu.24
root@ip-10-0-14-243:/home/ubuntu/my-website#

```

i-02e2492c1cd081703 (web-deployment)

PublicIPs: 15.127.104.73 PrivateIPs: 10.0.14.243

CloudShell Feedback Console Mobile App

24°C Mostly sunny

The screenshot shows a web browser window with multiple tabs open. The main content area displays a large block of AWS CLI command inflation logs, primarily related to AWS MediaPackage VOD and AWS HealthLake. The logs show various commands being inflated, such as `aws/dist/awscli/examples/payment-cryptography/delete-alias.rst` and `aws/dist/awscli/examples/mediapackage-vod/create-asset.rst`. Below the logs, the text "i-02e2492c1cd081703 (web-deployment)" and "PublicIPs: 13.127.104.73 PrivateIPs: 10.0.14.245" is visible.

At the bottom of the browser window, there is a navigation bar with links for CloudShell, Feedback, and Console Mobile App. The status bar at the very bottom shows the AWS logo, account information (Account ID: 123456789012, vanshini%20saravanan), and system details (CloudShell, Feedback, Console Mobile App, Privacy, Terms, Cookie preferences).

Screenshot of the AWS IAM 'Create user' wizard Step 3: Set permissions.

The 'Permissions policies' section shows 1440 available policies. The 'Attach policies directly' option is selected, highlighted with a blue border.

Policy list:

Policy name	Type	Attached entities
AccessAnalyzerServiceRolePolicy	AWS managed	0
AccountManagementFromVercel	AWS managed	0
AdministratorAccess	AWS managed - job function	0
AdministratorAccess-Amplify	AWS managed	0
AdministratorAccess-AWSElasticBeanstalk	AWS managed	0
AIOpsAssistantIncidentReportPolicy	AWS managed	0

Screenshot of the AWS IAM 'Create user' wizard Step 3: Review and create.

**User details:**

User name: varsha	Console password type: None	Require password reset: No
-------------------	-----------------------------	----------------------------

**Permissions summary:**

Name	Type	Used as
AmazonEC2ContainerRegistryFullAccess	AWS managed	Permissions policy
AmazonEC2FullAccess	AWS managed	Permissions policy
AmazonECS_FullAccess	AWS managed	Permissions policy

**Tags - optional:**

No tags associated with the resource.

Screenshot of the AWS IAM User Management console showing the creation of a new user named "varsha".

The top navigation bar shows the URL: us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users.

The left sidebar menu includes:

- Identity and Access Management (IAM)
- Dashboard
- Access management
  - User groups
  - Users**
  - Roles
  - Policies
  - Identity providers
  - Account settings
  - Root access management
  - Temporary delegation requests
  - New
- Access reports
  - Access Analyzer
  - Resource analysis New

The main content area displays a success message: "User created successfully". It also shows a table of users with one entry: "varsha".

The bottom navigation bar includes CloudShell, Feedback, and Console Mobile App.

Screenshot of the AWS IAM User details page for "varsha".

The URL is: us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/details/varsha?section=permissions.

The left sidebar menu is identical to the previous screenshot.

The main content area shows the "Summary" tab for "varsha". It includes:

- ARN: arn:aws:iam::1234567890:user/varsha
- Console access: Disabled
- Created: December 26, 2025, 10:37 (UTC+05:30)
- Last console sign-in: -
- Access key 1: Create access key

The "Permissions" tab is selected, showing "Permissions policies (3)". A search bar and filter by type dropdown are also present.

The bottom navigation bar includes CloudShell, Feedback, and Console Mobile App.

Screenshot of the AWS IAM 'Create access key' wizard Step 3: Set description tag.

The page shows a sidebar with 'Step 3' selected under 'Retrieve access keys'. The main content area is titled 'Use case' and contains the following options:

- Command Line Interface (CLI)  
You plan to use this access key to enable the AWS CLI to access your AWS account.
- Local code  
You plan to use this access key to enable application code in a local development environment to access your AWS account.
- Application running on an AWS compute service  
You plan to use this access key to enable application code running on an AWS compute service like Amazon EC2, Amazon ECS, or AWS Lambda to access your AWS account.
- Third-party service  
You plan to use this access key to enable access for a third-party application or service that monitors or manages your AWS resources.
- Application running outside AWS  
You plan to use this access key to authenticate workloads running in your data center or other infrastructure outside of AWS that needs to access your AWS resources.
- Other  
Your use case is not listed here.

A yellow warning box at the bottom left says: "Alternatives recommended" with the note: "Use AWS CLI V2 and the aws login command to use your existing console credentials in the CLI. Learn more" with a link icon.

Screenshot of the AWS IAM 'Create access key' wizard Step 4: Retrieve access keys.

The page shows a green header bar: "This is the only time that the secret access key can be viewed or downloaded. You cannot recover it later. However, you can create a new access key any time." with a close button.

The sidebar shows 'Step 1' (Access key best practices & alternatives) and 'Step 2 - optional' (Set description tag). 'Step 3' (Retrieve access keys) is selected.

The main content area is titled 'Retrieve access keys' and contains:

- Access key**: A note: "If you lose or forget your secret access key, you cannot retrieve it. Instead, create a new access key and make the old key inactive." Below are two input fields:
  - Access key: AKIARY7V7BP7DE3M2KU
  - Secret access key: /7+P2L1MqDF5N7bS58LLA2Aw/Qk73QFLBgcaXvjb [Hide](#)
- Access key best practices**:
  - Never store your access key in plain text, in a code repository, or in code.
  - Disable or delete access key when no longer needed.
  - Enable least-privilege permissions.
  - Rotate access keys regularly.

At the bottom right are 'Download .csv file' and 'Done' buttons.

awscli/2.32.23 Python/3.13.11 Linux/6.14.0-1015-aws exe/x86\_64.ubuntu.24

```

root@ip-10-0-14-243:/home/ubuntu/my-website# aws configure
AWS Access Key ID [None]: AKIARY7V7B7F7DE3M2KU3
AWS Secret Access Key [None]: /7FPZL1MgDf5N7bS58LLA2Aw/Qk73QFl8gcaXvjb
Default region name [None]: ap-south-1

[+] Stopped
root@ip-10-0-14-243:/home/ubuntu/my-website# aws configure
AWS Access Key ID [None]: AKIARY7V7B7F7DE3M2KU3
AWS Secret Access Key [None]: /7FPZL1MgDf5N7bS58LLA2Aw/Qk73QFl8gcaXvjb
Default region name [None]: ap-south-1
Default output format [None]: json
root@ip-10-0-14-243:/home/ubuntu/my-website# aws ecr get-login-password --region ap-south-1 \
| docker login --username AWS --password-stdin
122385533950.dkr.ecr.ap-south-1.amazonaws.com/web-deployment
Error response from daemon: Get "https://registry-1.docker.io/v2/": unauthorized: incorrect username or password
bash: 122385533950.dkr.ecr.ap-south-1.amazonaws.com/web-deployment: No such file or directory
root@ip-10-0-14-243:/home/ubuntu/my-website# aws ecr get-login-password --region ap-south-1 | docker login --username AWS --password-stdin 122385533950.dkr.ecr.ap-south-1.amazonaws.com/we
b-deployment

WARNING! Your credentials are stored unencrypted in '/root/.docker/config.json'.
Configure a credential helper to remove this warning. See
https://docs.docker.com/go/credential-store/

Login Succeeded
root@ip-10-0-14-243:/home/ubuntu/my-website# docker images

```

IMAGE	ID	DISK USAGE	CONTENT SIZE	EXTRA
frontend-altech:latest	b575c2efb2a6	131MB	47.4MB	<span style="color: green;">In Use</span>

```

root@ip-10-0-14-243:/home/ubuntu/my-website# docker tag frontend-altech:latest 122385533950.dkr.ecr.ap-south-1.amazonaws.com/web-deployment:latest
root@ip-10-0-14-243:/home/ubuntu/my-website# docker push 122385533950.dkr.ecr.ap-south-1.amazonaws.com/web-deployment:latest

```



The screenshot shows the AWS Elastic Container Service (ECS) landing page in the AWS Management Console. The URL is <https://ap-south-1.console.aws.amazon.com/ecs/get-started?region=ap-south-1>. The page features a sidebar with links to Services, Features, Documentation, Knowledge articles, Marketplace, Blog posts, Events, and Tutorials. The main content area highlights the Elastic Container Service as a highly secure, reliable, and scalable way to run containers, featuring clusters, task definitions, account settings, get started, and namespaces. It also mentions Batch (fully managed batch processing at any scale) and AWS FIS (improve resiliency and performance with controlled experiments). A large call-to-action button labeled "Create a repository" is prominently displayed. To the right, there's a "Getting started" section for the US region, which includes information about costs and VPC interface endpoints.

**Elastic Container Service**  
Highly secure, reliable, and scalable way to run containers

**Top features**

- Clusters
- Task definitions
- Account settings
- Get started
- Namespaces

**Batch**  
Fully managed batch processing at any scale

**AWS FIS**  
Improve resiliency and performance with controlled experiments.

**Were these results helpful?**

**Clusters**

**Getting started (US)**

Only pay for the amount of data you store in your private repositories and data transferred to the cloud.

Learn more about VPC interface endpoints.

Learn more about VPC interface endpoints.

**Getting started**

Last updated December 26, 2025, 10:51 (UTC+5:30)

**Clusters (0) Info**

Cluster	Services	Tasks	Container instances	CloudWatch monitoring	Capacity provider strategy
No clusters					

[Tell us what you think](#)

https://ap-south-1.console.aws.amazon.com/ecs/v2/clusters?region=ap-south-1

25°C  
Mostly sunny

ENG IN 10:51 26-12-2025

Screenshot of the AWS Cloud Console showing the 'Create cluster' wizard for Amazon Elastic Container Service (ECS). The page title is 'Create cluster' under 'Amazon Elastic Container Service'. The left sidebar shows navigation links for Express Mode, Clusters, Namespaces, Task definitions, Account settings, and other services like Amazon ECR and AWS Batch.

**Cluster configuration**

**Cluster name:** web-deployment-cluster

**Service Connect defaults - optional**

**Infrastructure - advanced**

**Select a method of obtaining compute capacity**

**Fargate only**: Serverless - you don't think about creating or managing servers. Great for most common workloads.

**Fargate and Managed Instances**: Managed instances - Amazon ECS will manage patching and scaling on your behalf while giving you configurability about the types of instances. Great for more advanced workloads.

**Fargate and Self-managed instances**: Self-managed instances - you must ensure the instances are patched and scaled properly, and you have full control over the instances.

**Monitoring - optional**

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Screenshot of the AWS Cloud Console showing the 'Create cluster' wizard for Amazon Elastic Container Service (ECS). The page title is 'Create cluster' under 'Amazon Elastic Container Service'. The left sidebar shows navigation links for Express Mode, Clusters, Namespaces, Task definitions, Account settings, and other services like Amazon ECR and AWS Batch.

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Basic Container Registry | Clusters | Elastic Container Service | varsha | IAM | Global | Create access key | Create access key | EC2 Instance Connect | Temptify|CRAVINGS | +

ap-south-1.console.aws.amazon.com/ecs/v2/clusters?region=ap-south-1

All Bookmarks

Account ID: 1234-5678-9012 | Asia Pacific (Mumbai) | varshini%20saravanan

Amazon Elastic Container Service > Clusters

Cluster web-deployment-cluster1 creation is in progress.

Clusters (1) Info

Last updated: December 26, 2025, 11:00 (UTC+5:30)

Create cluster

Search clusters

Cluster	Services	Tasks	Container instances	CloudWatch monitoring	Capacity provider strategy
web-deployment-cluster1	0	No tasks running	0 EC2	Default	No default found

Tell us what you think

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Basic Container Registry | Clusters | Elastic Container Service | varsha | IAM | Global | Create access key | Create access key | EC2 Instance Connect | Temptify|CRAVINGS | +

ap-south-1.console.aws.amazon.com/ecs/v2/clusters?region=ap-south-1

All Bookmarks

Account ID: 1234-5678-9012 | Asia Pacific (Mumbai) | varshini%20saravanan

Amazon Elastic Container Service > Clusters

Cluster web-deployment-cluster1 has been created successfully.

Clusters (1) Info

Last updated: December 26, 2025, 11:00 (UTC+5:30)

Create cluster

Search clusters

Cluster	Services	Tasks	Container instances	CloudWatch monitoring	Capacity provider strategy
web-deployment-cluster1	0	No tasks running	0 EC2	Default	No default found

Tell us what you think

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Screenshot of the AWS EC2 Load Balancers console page:

**Load balancers**

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

Actions Create load balancer

Filter load balancers

Name State Type Scheme IP address type VPC ID Availability Zones Security group

0 load balancers selected

Select a load balancer above.

**Compare and select load balancer type**

A complete feature-by-feature comparison along with detailed highlights is also available. [Learn more](#)

**Load balancer types**

- Application Load Balancer** Info
 

Choose an Application Load Balancer when you need a flexible feature set for your applications with HTTP and HTTPS traffic.
- Network Load Balancer** Info
 

Choose a Network Load Balancer when you need ultra-high performance, TLS offloading at scale, centralized certificate deployment, and support for AWS Lambda.
- Gateway Load Balancer** Info
 

Choose a Gateway Load Balancer when you need to deploy and manage a fleet of third-party virtual appliances that support GENEVE.

Screenshot of the AWS Cloud Console showing the 'Create Application Load Balancer' wizard. The page displays basic configuration options for an Internet-facing load balancer named 'web-deployment-lb'. It shows two scheme options: 'Internet-facing' (selected) and 'Internal'. The 'Internet-facing' scheme is described as serving internet-facing traffic with public IP addresses, while the 'Internal' scheme serves private IP addresses. The 'Load balancer IP address type' section shows 'IPv4' selected, which includes only IPv4 addresses. A note states that VPC and subnets mapped to this load balancer must include the selected IP address types; Public IPv4 addresses have an additional cost.

Screenshot of the AWS Cloud Console showing the 'Create Application Load Balancer' wizard. The page displays summary information for the configuration. The 'Summary' section includes:

- Basic configuration:** Name: web-deployment-lb, Scheme: Internet-facing, IP address type: IPv4.
- Network mapping:** VPC: vpc-073df4e1a905c4f76, Public IPv4 IPAM pool: -.
- Availability zones and subnets:** ap-south-1a (subnet-0c2d6fb743df76ddc, web\_deployment-subnet-private1-ap-south-1a), ap-south-1b (subnet-0c940c9bd7be258d1, web\_deployment-subnet-private2-ap-south-1b).
- Security groups:** web-deployment (sg-061f45d19540d3761), default (sg-0b528b9dd4168fc6).
- Listeners and routing:** HTTP:80 | Forward to 1 target group.
- Service integrations:** Amazon CloudFront + AWS Web Application Firewall (WAF): Applied, AWS WAF: -, AWS Global Accelerator: -.
- Attributes:** Tags: Edit

The page also includes links for CloudShell, Feedback, and Console Mobile App, and standard footer links for Privacy, Terms, and Cookie preferences.

The screenshot shows the AWS CloudShell interface with two tabs open: 'Basti' and 'large'. The 'large' tab is currently active, displaying the AWS Lambda console. The URL in the browser is <https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#LoadBalancer/loadBalancerArn=arn:aws:elasticloadbalancing:ap-south-1:122385533950:loadbalancer/app/web-deployment-lb>.

**EC2 > Load balancers > web-deployment-lb**

**Successfully created load balancer: web-deployment-lb**  
It might take a few minutes for your load balancer to fully set up and route traffic. Targets will also take a few minutes to complete the registration process and pass initial health checks.

**Introducing ALB target optimizer**  
Target optimizer lets you enforce a maximum number of requests per target using an ALB-provided agent, improving success rates, latency, and efficiency. [Learn more](#)

**Details**

Load balancer type	Status	VPC	Load balancer IP address type
Application	Provisioning	vpc-07ddfe1a905c4f76	IPv4
Scheme	Hosted zone	Availability Zones	Date created
Internet-facing	ZP97RAFLXTNZK	subnets-0c2dd6b743df76ddc ap-south-1a (aps1-az1)	December 26, 2025, 11:22 (UTC+05:30)
		subnets-0c940c9bd7be258d1 ap-south-1b (aps1-az2)	
		(aps1-az3)	

**Listeners and rules** **Network mapping** **Resource map** **Security** **Monitoring** **Integrations** **Attributes** **Capacity** **Tags**

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**Amazon Elastic Container Service > Clusters > web-deployment-cluster1 > Services**

**web-deployment-cluster1** Last updated: December 26, 2025, 11:26 (UTC+05:30) **Actions** **Create with Express Mode**

**Cluster overview**

ARN	Status	CloudWatch monitoring	Registered container instances
arn:aws:ecs:ap-south-1:122385533950:cluster/web-deployment-cluster1	Active	Default	-

**Services**

Draining	Active	Pending	Running
-	-	-	-

**Services** **Tasks** **Infrastructure** **Metrics** **Scheduled tasks** **Configuration** **Event history** **Tags**

**Services (0) Info** Last updated: December 26, 2025, 11:26 (UTC+05:30) **Create**

Filter services by value	Filter launch type	Filter scheduling strategy	Filter resource management type
Any launch type	Any scheduling strategy	Any resource management type	

**Service name** ARN Status Schedulu... Launchu... Task de... Deployments and tasks Last de...

No services

Tell us what you think

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Screenshot of the AWS Elastic Container Service (ECS) console showing the "Create service" wizard.

**Service details**

**Task definition family:** web-deployment-task-definitions

**Task definition revision:** Latest

**Service name:** web-deployment-task-definitions-service-xg5yy02k

**Environment**

**Existing cluster:** web-deployment-cluster

**AWS Fargate**

**Compute configuration - advanced**

**Compute options:** Info

To ensure task distribution across your compute types, use appropriate compute options.

**Launch type:** Launch tasks directly without the use of a capacity provider strategy.

**Launch type:** FARGATE

**Platform version:** LATEST

**Troubleshooting configuration - recommended**

**Deployment configuration**

**Scheduling strategy:** Info

**Replica:** Place and maintain a desired number of tasks across your cluster.

**Desired tasks:** 1

**Availability Zone rebalancing:** Info

**Turn on Availability Zone rebalancing:**

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Amazon Elastic Container Service > Clusters > web-deployment-cluster1 > Create service

### Networking

VPC | Info  
Select a VPC to use for your Amazon ECS resources.

vpc-07ddf4e1a905c4f76  
web\_deployment-vcpc

Subnets  
Choose the subnets within the VPC that the task scheduler should consider for placement.

subnet-09206258f35686dd7  
web\_deployment-subnet-public2-ap-south-1b  
ap-south-1b 10.0.16.0/20

subnet-05609c691a93a1e41  
web\_deployment-subnet-public1-ap-south-1a  
ap-south-1a 10.0.0.0/20

Security group | Info  
Choose an existing security group or create a new security group.

Use an existing security group.  
 Create a new security group

Security group name  
Choose an existing security group.

sg-051f45d19540d3761  
web-deployment

sg-0b528b9dd4168fc6b  
default

Public IP | Info  
Choose whether to auto-assign a public IP to the task's elastic network interface (ENI).

Turned off

Amazon Elastic Container Service > Clusters > web-deployment-cluster1 > Create service

**Load balancing - optional**

Configure load balancing using Amazon Elastic Load Balancing to distribute traffic evenly across the healthy tasks in your service.

Use load balancing

**VPC**  
The VPC for your load balancing resources must be the same as the VPC for your service with mesgpc:  
vpc-07ddf4e1a905c4f76

**Load balancer type** [Info](#)  
Specify the load balancer type to distribute incoming traffic across the tasks running in your service.

Application Load Balancer  
An Application Load Balancer makes routing decisions at the application layer (HTTP/HTTPS), supports path-based routing, and can route requests to one or more ports.

Network Load Balancer  
A Network Load Balancer makes routing decisions at the transport layer (TCP/UDP).

**Container**  
The container and port to load balance the incoming traffic to:  
 [Edit](#)

Host port:Container port

**Application Load Balancer**  
Specify whether to create a new load balancer or choose an existing one.

Create a new load balancer

Use an existing load balancer

**Load balancer**  
Choose an existing load balancer to distribute traffic. View existing load balancers and create new one in EC2 Console [Edit](#)

[Edit](#)

internet-facing [Edit](#)

Screenshot of the AWS Elastic Container Service (ECS) Cluster creation interface.

The URL is [ap-south-1.console.aws.amazon.com/ecs/v2/clusters/web-deployment-cluster1/create-service?region=ap-south-1](https://ap-south-1.console.aws.amazon.com/ecs/v2/clusters/web-deployment-cluster1/create-service?region=ap-south-1)

**Amazon Elastic Container Service** (selected)

**Clusters** > **web-deployment-cluster1** > **Create service**

**Listener** (Info): Listener port is set to **HTTP:80**.

**Listener rules for 80:HTTP (1)**: Rule path is **/** and Target group is **web-deployment-tg**.

**Target group** (Info): Target group name is **web-deployment-tg**, Health check path is **/**, and Health check protocol is **HTTP**.

Screenshot of the AWS Elastic Container Service (ECS) Cluster overview interface.

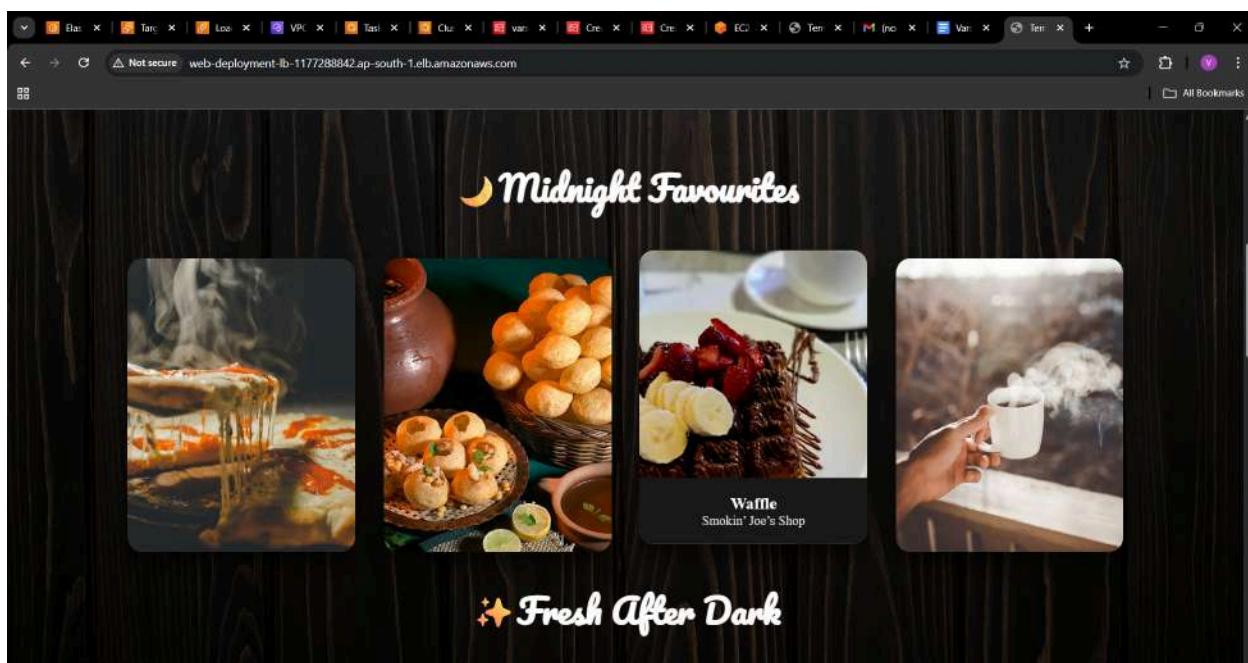
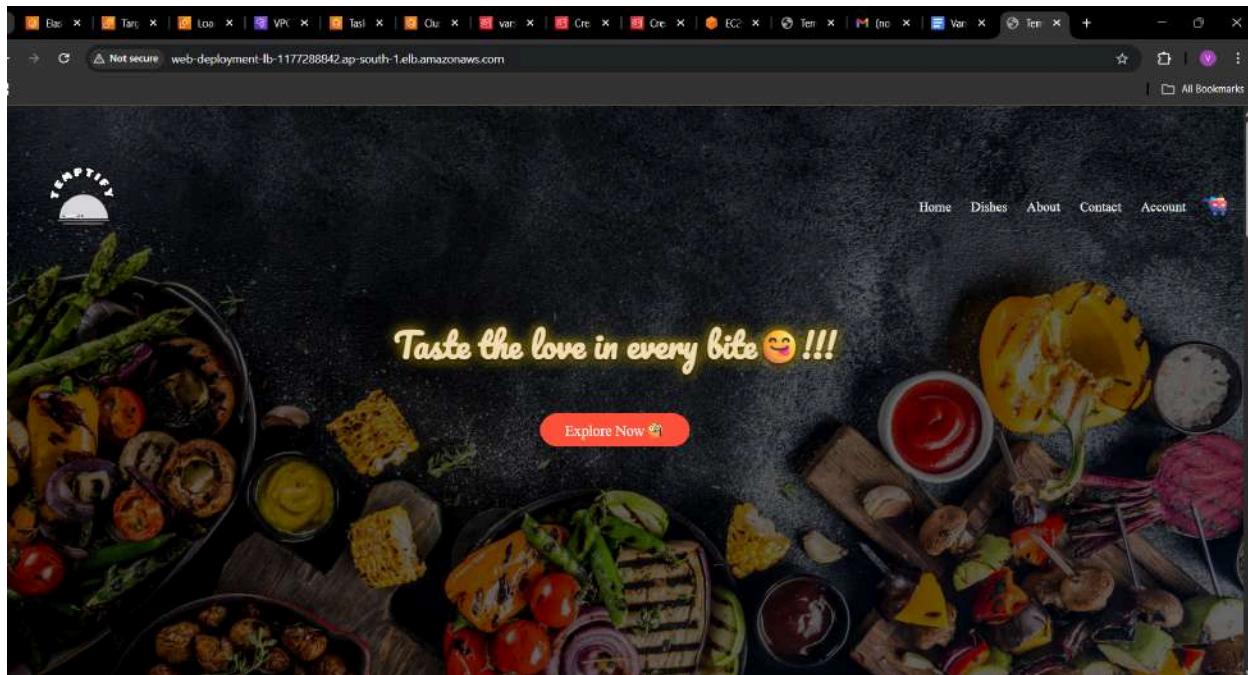
The URL is [ap-south-1.console.aws.amazon.com/ecs/v2/clusters/web-deployment-cluster1/services?region=ap-south-1](https://ap-south-1.console.aws.amazon.com/ecs/v2/clusters/web-deployment-cluster1/services?region=ap-south-1)

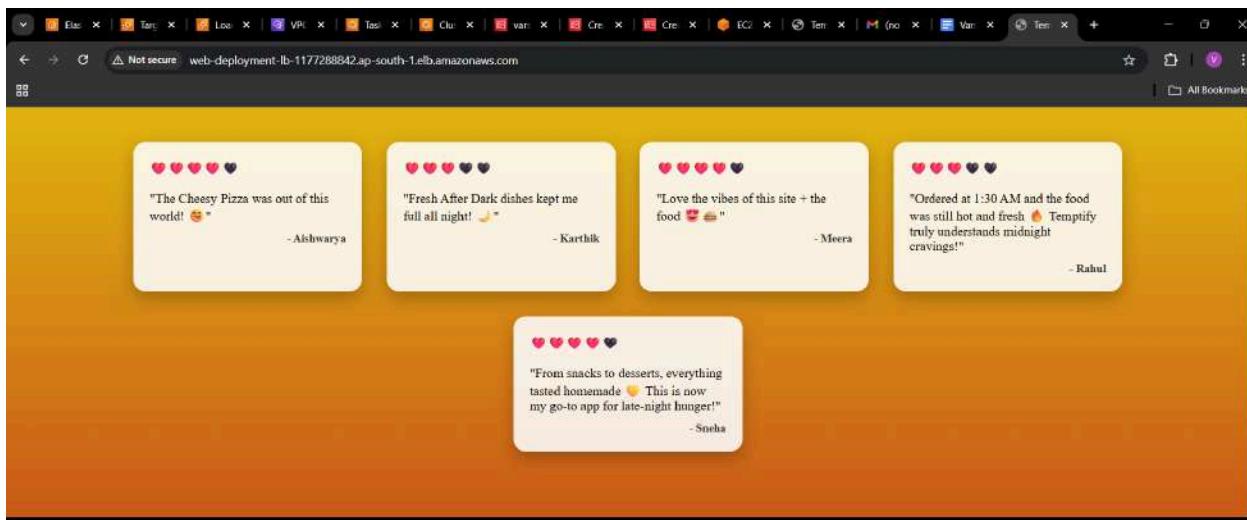
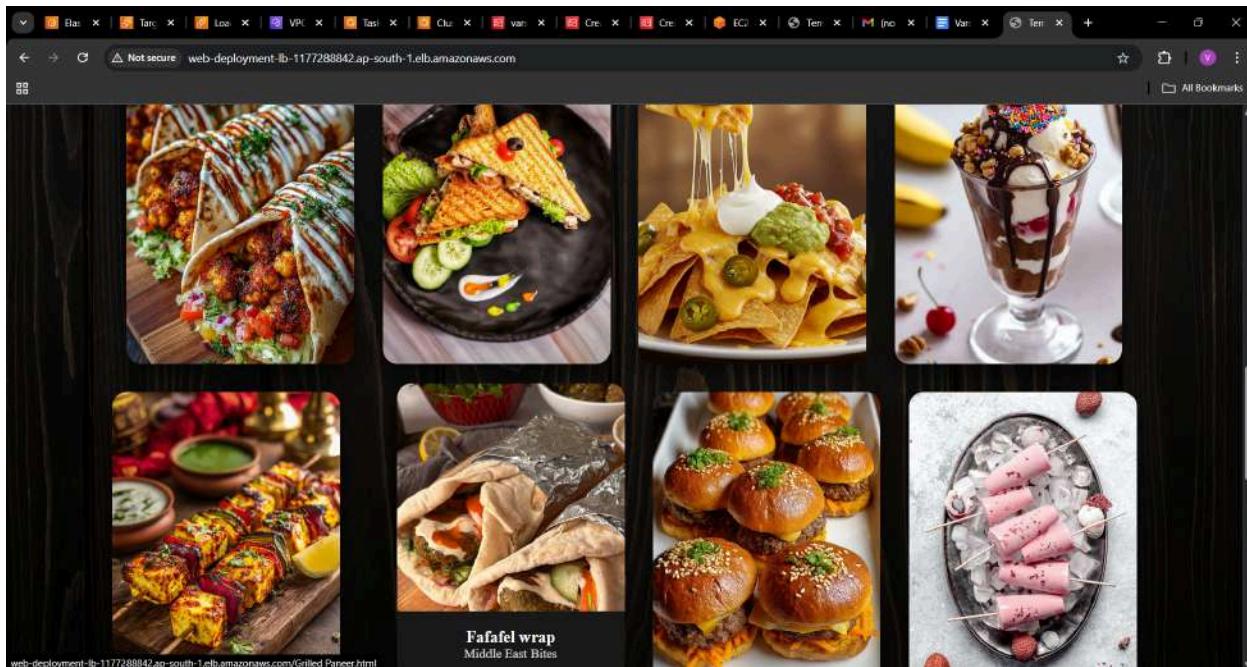
**Cluster overview** for **web-deployment-cluster1**:

- ARN**: arn:aws:ecs:ap-south-1:123456789012:clusters/web-deployment-cluster1
- Status**: Active
- CloudWatch monitoring**: Default
- Registered container instances**: -

**Services** (2) (Info):

Name	ARN	Status	Launch type	Scheduling strategy	Resource management type	Deployments and tasks	Last deployment
web-deployment-task-definitions-service-87fhnae	arn:aws:ecs:ap-south-1:123456789012:services/web-deployment-task-definitions-service-87fhnae	Active	REPLICA	FARGATE	web-deployment-task-definitions-service-87fhnae	1/1 Tasks running	Completed





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