

Publishing a Website on AWS

Create an Ubuntu EC2 Instance

1. Launch an EC2 instance with Ubuntu.

The screenshot shows the AWS Management Console interface for launching an EC2 instance. The top navigation bar includes the AWS logo, a search bar, and account information (Europe (Stockholm), sj20 @ 9750-5032-3630). The breadcrumb trail indicates the path: EC2 > Instances > Launch an instance.

The main content area is titled "the simple steps below." and contains two primary sections:

- Name and tags**: A text input field labeled "Name" contains the value "ChandanaActivity". A link "Add additional tags" is visible to the right.
- Application and OS Images (Amazon Machine Image)**: This section includes a search bar with the placeholder text "Search our full catalog including 1000s of application and OS images". Below the search bar, there are tabs for "Recents" and "Quick Start". Under the "Quick Start" tab, a grid of operating system logos is displayed: Amazon Linux, macOS, Ubuntu (highlighted), Windows, Red Hat, and SUSE Linux. A "Browse more AMIs" link is located to the right of the grid.

On the right side of the console, a "Summary" panel provides a quick overview of the configuration:

- Number of instances**: 1
- Software Image (AMI)**: Canonical, Ubuntu, 24.04, amd64...read more
- Virtual server type (instance type)**: t3.micro
- Firewall (security group)**: New security group
- Storage (volumes)**: 1 volume(s) - 8 GiB

At the bottom of the summary panel, there are buttons for "Cancel", "Launch instance", and "Preview code".

This screenshot shows the same AWS Management Console interface, but with the "Network settings" section expanded. The "Key pair name - required" field now shows "Chandanavmkey" with a "Create new key pair" link next to it.

The **Network settings** section includes:

- Network**: vpc-0857774b36cf63c58
- Subnet**: No preference (Default subnet in any availability zone)
- Auto-assign public IP**: Enable
- Firewall (security groups)**: A message states "A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance." Below this, there are two radio buttons: "Create security group" (unselected) and "Select existing security group" (selected).
- Common security groups**: A dropdown menu shows "Chandana-security sg-095159cc45cb0af05" with a close button (X). Below the dropdown, the VPC ID "VPC: vpc-0857774b36cf63c58" is displayed.

The "Summary" panel on the right remains the same, showing the configuration details for the instance.

aws Search [Alt+S] Europe (Stockholm) sj20 @ 9750-5032-3630

EC2 > Instances > Launch an instance

Success

Successfully initiated launch of instance [i-0838b3d6ff51fa65a](#)

▶ Launch log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

< 1 2 3 4 5 6 >

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

[Create billing alerts](#)

Connect to your instance

Once your instance is running, log into it from your local computer.

[Connect to instance](#)

[Learn more](#)

Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

[Connect an RDS database](#)

[Create a new RDS database](#)

[Learn more](#)

Create EBS snapshot policy

Create a policy that automates the creation, retention, and deletion of EBS snapshots

[Create EBS snapshot policy](#)

2. Connect to the instance.

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EC2 > Instances > i-0838b3d6ff51fa65a

EC2

- Dashboard
- EC2 Global View
- Events
- ▼ Instances
 - Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations
- ▼ Images
 - AMIs
 - AMI Catalog
- ▼ Elastic Block Store
 - Volumes

Instance summary for i-0838b3d6ff51fa65a (ChandanaActivity)

Updated less than a minute ago

[Connect](#) [Instance state](#) [Actions](#)

Instance ID i-0838b3d6ff51fa65a	Public IPv4 address 13.61.6.110 open address	Private IPv4 addresses 172.31.28.120
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-13-61-6-110.eu-north-1.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-28-120.eu-north-1.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-28-120.eu-north-1.compute.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t3.micro	AWS Compute Optimizer finding No recommendations available for this instance.
Auto-assigned IP address 13.61.6.110 [Public IP]	VPC ID vpc-0857774b36cf63c58	

```
Swap usage: 0% IPv4 address for ens5: 172.31.28.120

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

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

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-28-120:~$
```

i-0838b3d6ff51fa65a (ChandanaActivity)

PublicIPs: 13.61.6.110 PrivateIPs: 172.31.28.120

```
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
ubuntu@ip-172-31-28-120:/$ sudo apt install git -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.2).
0 upgraded, 0 newly installed, 0 to remove and 106 not upgraded.
ubuntu@ip-172-31-28-120:/$ cd /var/www/html
ubuntu@ip-172-31-28-120:/var/www/html$ sudo git clone https://github.com/Chandana-kc/Portfolio.git
Cloning into 'Portfolio'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 10 (delta 3), reused 10 (delta 3), pack-reused 0 (from 0)
Receiving objects: 100% (10/10), 3.28 MiB | 27.74 MiB/s, done.
Resolving deltas: 100% (3/3), done.
ubuntu@ip-172-31-28-120:/var/www/html$ sudo mv your-Portfolio/* .
mv: cannot stat 'your-Portfolio/*': No such file or directory
ubuntu@ip-172-31-28-120:/var/www/html$ sudo mv Portfolio/* .
mv: cannot overwrite './assets': Directory not empty
ubuntu@ip-172-31-28-120:/var/www/html$ sudo rm -rf Portfolio
ubuntu@ip-172-31-28-120:/var/www/html$ sudo chmod -R 755 /var/www/html
ubuntu@ip-172-31-28-120:/var/www/html$ sudo chown -R www-data:www-data /var/www/html
ubuntu@ip-172-31-28-120:/var/www/html$
```

i-0838b3d6ff51fa65a (ChandanaActivity)

PublicIPs: 13.61.6.110 PrivateIPs: 172.31.28.120

Access the Website

1. Open a web browser and navigate to:

`http://your-ec2-public-ip`

