

CLOUDNET DAY-2 ASSIGNMENT

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THEORY

a) What are the advantages of using cloud computing?

- Ans)
1. Reduces IT cost
 2. Scalability
 3. Collaboration efficiency
 4. Flexibility of work practices

b) Mention platforms which are used for large scale cloud computing?

- Ans)
1. Amazon web services
 2. Microsoft azure
 3. Digital Ocean
 4. IBM Bluemix
 5. Alibaba
 6. Apache Hadoop
 7. MapReduce

b) Explain different models for deployment in cloud computing?

Ans) Basically there are 4 types:

- Public cloud
- Private cloud
- Hybrid cloud

- Community Cloud

1. PUBLIC CLOUD: this type of cloud deployment model supports all users who want to make use of a computing resource, such as hardware (OS, CPU, memory, storage) or software (application server, database) on a subscription basis. Most common uses of public clouds are for application development and testing, non-mission-critical tasks such as file-sharing, and e-mail service.
2. PRIVATE CLOUD: a private cloud is typically infrastructure used by a single organization. Such infrastructure may be managed by the organization itself to support various user groups, or it could be managed by a service provider that takes care of it either on-site or off-site. Private clouds are more expensive than public clouds due to the capital expenditure involved in acquiring and maintaining them. However, private clouds are better able to address the security and privacy concerns of organizations today.
3. HYBRIC CLOUD: In a hybrid cloud, an organization makes use of interconnected private and public cloud infrastructure. Many organizations make use of this model when they need to scale up their IT infrastructure rapidly, such as when leveraging public clouds to supplement the capacity available within a private cloud. For example, if an online retailer needs more computing resources to run

its Web applications during the holiday season it may attain those resources via public clouds.

4. **COMMUNITY CLOUD**: This deployment model supports multiple organizations sharing computing resources that are part of a community; examples include universities cooperating in certain areas of research, or police departments within a county or state sharing computing resources. Access to a community cloud environment is typically restricted to the members of the community.

c) What is the difference in cloud computing and computing for mobiles?

Ans) Cloud computing relates to the specific design of new technologies and services that allow data to be sent over distributed networks, through wireless connections, to a remote secure location that is usually maintained by a vendor. Cloud service providers usually serve multiple clients. They arrange access between the client's local or closed networks, and their own data storage and data backup systems. That means that the vendor can intake data that is sent to them and store it securely, while delivering services back to a client through these carefully maintained connections.

Mobile computing relates to the emergence of new devices and interfaces. Smartphones and tablets are mobile devices that can do a lot of what traditional desktop and laptop computers do. Mobile computing functions include accessing the Internet through

browsers, supporting multiple software applications with a core operating system, and sending and receiving different types of data. The mobile operating system, as an interface, supports users by providing intuitive icons, familiar search technologies and easy touch-screen commands.

While mobile computing is largely a consumer-facing service, cloud computing is something that is used by many businesses and companies. Individuals can also benefit from cloud computing, but some of the most sophisticated and advanced cloud computing services are aimed at enterprises.

d) How user can gain from utility computing?

Ans) Utility computing allows the user to pay only for what they are using. It is a plug-in managed by an organization which decides what type of services has to be deployed from the cloud.

e) For a transport in cloud how you can secure your data?

Ans) To secure your data while transporting them from one place to another, check that there is no leak with the encryption key implemented with the data you are sending.

f) What are the security aspects provided with cloud?

Ans) a) Identity management: It authorizes the application services

b) Access control: permission has to be provided to the users so that they can control the access of another user who is entering into the cloud environment.

c) Authentication and Authorization: Allows only the authorized and authenticated user only to access the data and applications

g) What are system integrators in Cloud Computing?

Ans) In Cloud Computing, systems integrator provides the strategy of the complicated process used to design a cloud platform. Integrator allows to create more accurate hybrid and private cloud network, as integrators have all the knowledge about the data centre creation.

h) List out different layers which define cloud architecture?

Ans) The different layers used by cloud architecture are:

- a) CLC or Cloud Controller
- b) Walrus
- c) Cluster Controller
- d) SC or Storage Controller
- e) NC or Node Controller

i) What is the requirement of virtualization platform in implementing cloud?

Ans) The requirement of virtualization platform in implementing cloud is to

- a) Manage the service level policies
- b) Cloud Operating System
- c) Virtualization platforms helps to keep the backend level and user level concepts different from each other

HANDS-ON

A.Create your free AWS account.

The screenshot shows the AWS Free Tier landing page. At the top, there's a navigation bar with links for Products, Solutions, Pricing, Documentation, Learn, Partner Network, AWS Marketplace, Customer Enablement, Events, Explore More, and a search bar. On the right, there are buttons for Contact Us, Support, English, My Account, and a prominent orange "Complete Sign Up" button. Below the navigation, there are links for AWS Free Tier, Overview, FAQs, and Terms and Conditions. The main content area features a large banner with the text "AWS Free Tier" and a subtext "Gain free, hands-on experience with the AWS platform, products, and services". Below the banner is a "Learn more about AWS Free Tier" link and a blue "Create a Free Account" button. The background of the main section has a dark, abstract geometric pattern of cubes and diamonds.

Types of offers

Explore more than 100 products and start building on AWS using the Free Tier. Three different types of free offers are available depending on the product used. See below for details on each product.



Always free



12 months free



Trials

The screenshot shows the AWS Console - Signup page. At the top, there's a navigation bar with links for AWS Console, Help, and a search bar. On the right, there are buttons for Contact Us, Support, English, and a "Sign In" button. Below the navigation, there's a "Sign up for AWS" header. The main form fields include "Email address" (with placeholder "tonyxd.datta@gmail.com"), "Password" (with placeholder "*****"), "Confirm password" (with placeholder "*****"), and "AWS account name" (with placeholder "tounovdattaTXD"). Below the form is a blue "Continue (step 1 of 5)" button. To the right of the form, there's a link "Sign in to an existing AWS account". The background features a light gray gradient with faint wireframe 3D shapes of buildings and clouds.

AWS Console - Signup

portal.aws.amazon.com/billing/signup?refid=em_127222&redirect_url=https%3A%2F%2Faws.amazon.com%2Fregistration-confirmation#/account

English

Sign up for AWS

Contact Information

How do you plan to use AWS?

Business - for your work, school, or organization

Personal - for your own projects

Who should we contact about this account?

Full Name: Tounov Datta

Phone Number: Enter your country code and your phone number.
+919319922424

Country or Region: India

Address: House No.- L-671, Sector -23,

Sign up for AWS

Confirm your identity

Before you can use your AWS account, you must verify your phone number. When you continue, the AWS automated system will contact you with a verification code.

How should we send you the verification code?

Text message (SMS)

Voice call

Country or region code: India (+91)

Mobile phone number: 9519922424

Security check:



Type the characters as shown above
4whx86

Send SMS (step 4 of 5)

AWS Console - Signup

portal.aws.amazon.com/billing/signup?ppw-messageProcessedResponse=APPROVED&ppw-widgetEvent=MessageProcessedEvent&ppw-widgetState=5-4N1v0ztsp55y-NXZBhf7tlPQ&redirect=succes... ☆ 1 English ▾

Sign up for AWS

Confirm your identity

Verify code

Continue (step 4 of 5)

Having trouble? Sometimes it takes up to 10 minutes to retrieve a verification code. If it's been longer than that, [return to the previous page](#) and try again.

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AWS Console - Signup

portal.aws.amazon.com/billing/signup?ppw-messageProcessedResponse=APPROVED&ppw-widgetEvent=MessageProcessedEvent&ppw-widgetState=5-4N1v0ztsp55y-NXZBhf7tlPQ&redirect=succes... ☆ 1 English ▾

Sign up for AWS

Select a support plan

Choose a support plan for your business or personal account. [Compare plans and pricing examples](#)

You can change your plan anytime in the AWS Management Console.

Basic support - Free

- Recommended for new users just getting started with AWS
- 24x7 self-service access to AWS resources
- For account and usage only
- Access to Personal Health Dashboard & Trusted Advisor

Developer support - From \$29/month

- Recommended for developers experimenting with AWS
- Email access to AWS Support during business hours
- 12 (business)-hour response times

Business support - From \$100/month

- Recommended for running production workloads on AWS
- 24x7 tech support via email, phone, and chat
- 1-hour response times
- Full set of Trusted Advisor best-practice recommendations

Need Enterprise level support?

From \$15,000 a month you will receive 15-minute response times and concierge-style experience with an assigned Technical Account Manager. [Learn more](#)

Complete sign up

The image shows two screenshots of the AWS interface. The top screenshot is the 'AWS Console - Signup' page, featuring the AWS logo, a rocket launching from a cloud icon, and a 'Congratulations' message. It includes a link to 'Go to the AWS Management Console'. The bottom screenshot is the 'AWS Management Console' home page, showing sections for 'AWS services', 'Build a solution', and 'Explore AWS'. It also features a sidebar with links like 'Stay connected to your AWS resources on-the-go' and 'Announcing Incident Manager from AWS Systems Manager'.

AWS Console - Signup

portal.aws.amazon.com/billing/signup?ppw-messageProcessedResponse=APPROVED&ppw-widgetEvent=MessageProcessedEvent&ppw-widgetState=5-4N1v0ztsp55y-NXZBhf7tPQ8&redirect=succes...

English

aws

Congratulations

Thank you for signing up for AWS.

We are activating your account, which should only take a few minutes. You will receive an email when this is complete.

Go to the AWS Management Console

Sign up for another account or contact sales.

AWS Management Console

Services

Search for services, features, marketplace products, and docs [Alt+S]

tounovdataTXD ▾ Ohio ▾ Support ▾

AWS Management Console

AWS services

All services

Build a solution

Get started with simple wizards and automated workflows.

Launch a virtual machine
With EC2
2-3 minutes

Build a web app
With Elastic Beanstalk
6 minutes

Build using virtual servers
With Lightsail
1-2 minutes

Register a domain
With Route 53
3 minutes

Connect an IoT device
With AWS IoT
5 minutes

Start migrating to AWS
With AWS MGN
1-2 minutes

Stay connected to your AWS resources on-the-go

AWS Console Mobile App now supports four additional regions. Download the AWS Console Mobile App to your iOS or Android mobile device. [Learn more](#)

Explore AWS

Modernize Your APIs with GraphQL
AWS AppSync is a fully-managed GraphQL service that improves app performance and developer productivity. [Learn more](#)

Announcing Incident Manager from AWS Systems Manager
Respond faster to application issues using new incident response and analysis capabilities. [Learn more](#)

[See AWS Training](#)

Feedback English (US) ▾

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B. Create EC2 instance

The screenshot displays two stacked screenshots of the AWS Management Console.

The top screenshot shows the search results for 'ec2'. The search bar at the top right contains 'ec2'. The results are categorized under 'Services' (6) and 'Features' (34). The 'EC2' service is highlighted, showing its description: 'Virtual Servers in the Cloud'. Other listed services include EC2 Image Builder, AWS Compute Optimizer, and GuardDuty.

The bottom screenshot shows the EC2 dashboard. The left sidebar has a 'New EC2 Experience' feedback section and a navigation menu with options like EC2 Dashboard, Instances, Images, Elastic Block Store, and Network & Security. The main content area shows 'Resources' for the Asia Pacific (Mumbai) Region, including counts for Instances (running), Dedicated Hosts, Elastic IPs, Instances, Key pairs, Load balancers, Placement groups, Security groups, Snapshots, and Volumes. A callout box provides information about launching Microsoft SQL Server Always On availability groups. The 'Service health' section shows the status of the service as 'operating normally' in the Asia Pacific (Mumbai) Region. The right sidebar includes sections for Account attributes (Supported platforms: VPC, Default VPC vpc-3479b75f, Settings, EBS encryption, Zones, Default credit specification, Console experiments) and Explore AWS (Enable Best Price-Performance with AWS Graviton2, Save Up to 45% on ML Inference).

Instances | EC2 Management Console

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

New EC2 Experience Tell us what you think

Services ▾

Instances Info

Search for services, features, marketplace products, and docs [Alt+S]

Instances Instances

EC2 Dashboard Events Tags Limits

Instances Instances Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Capacity Reservations

Images AMIs

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security

Feedback English (US) ▾

Launch instance wizard | EC2 Management Console

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review Cancel and Exit

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Quick Start

- My AMIs
- AWS Marketplace
- Community AMIs
- Free tier only

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-011c99152163a87ae (64-bit x86) / ami-0fc3ea54be0b9c73 (64-bit Arm)

Amazon Linux comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select 64-bit (x86) 64-bit (Arm)

Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-06a0b4e3b7eb7a300 (64-bit x86) / ami-0cbe04a3ce796c98e (64-bit Arm)

Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select 64-bit (x86) 64-bit (Arm)

SUSE Linux Enterprise Server 15 SP2 (HVM), SSD Volume Type - ami-0b3acf3edf2397475 (64-bit x86) / ami-0ab71076ab9b53b0d (64-bit Arm)

SUSE Linux Enterprise Server 15 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Amazon EC2 AMI Tools preinstalled; Apache 2.2, MySQL 5.5, PHP 5.3, and Ruby 1.8.7 available.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select 64-bit (x86) 64-bit (Arm)

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-0c1a7f89451184c8b (64-bit x86) / ami-0d18acc6e813fd2e0 (64-bit Arm)

Ubuntu Server 20.04 LTS (HVM), EBS General Purpose (SSD) Volume Type

Select

Feedback English (US) ▾

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Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

| Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, ~, 1 GiB memory, EBS only) | | | | | | | | | |
|--|--------|---|-------|--------------|-----------------------|-------------------------|---------------------|--------------|--|
| | Family | Type | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance | IPv6 Support | |
| <input type="checkbox"/> | t2 | t2.nano | 1 | 0.5 | EBS only | - | Low to Moderate | Yes | |
| <input checked="" type="checkbox"/> | t2 | t2.micro <small>Free tier eligible</small> | 1 | 1 | EBS only | - | Low to Moderate | Yes | |
| <input type="checkbox"/> | t2 | t2.small | 1 | 2 | EBS only | - | Low to Moderate | Yes | |
| <input type="checkbox"/> | t2 | t2.medium | 2 | 4 | EBS only | - | Low to Moderate | Yes | |
| <input type="checkbox"/> | t2 | t2.large | 2 | 8 | EBS only | - | Low to Moderate | Yes | |
| <input type="checkbox"/> | t2 | t2.xlarge | 4 | 16 | EBS only | - | Moderate | Yes | |
| <input type="checkbox"/> | t2 | t2.2xlarge | 8 | 32 | EBS only | - | Moderate | Yes | |
| <input type="checkbox"/> | t3 | t3.nano | 2 | 0.5 | EBS only | Yes | Up to 5 Gigabit | Yes | |
| <input type="checkbox"/> | t3 | t3.micro | 2 | 1 | EBS only | Yes | Up to 5 Gigabit | Yes | |

Cancel **Previous** **Review and Launch** **Next: Configure Instance Details**

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot Instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

| | |
|-------------------------------|--|
| Number of Instances | <input type="text" value="1"/> Launch into Auto Scaling Group <input type="checkbox"/> |
| Purchasing option | <input type="checkbox"/> Request Spot instances |
| Network | Network: <input type="text" value="vpc-3479b75f (default)"/> <input type="button" value="Create new VPC"/> Subnet: <input type="text" value="No preference (default subnet in any Availability Zone)"/> <input type="button" value="Create new subnet"/> Auto-assign Public IP: <input type="text" value="Use subnet setting (Enable)"/> |
| Placement group | <input type="checkbox"/> Add instance to placement group |
| Capacity Reservation | <input type="text" value="Open"/> |
| Domain join directory | <input type="text" value="No directory"/> <input type="button" value="Create new directory"/> |
| IAM role | <input type="text" value="None"/> <input type="button" value="Create new IAM role"/> |
| Shutdown behavior | <input type="text" value="Stop"/> |
| Stop - Hibernate behavior | <input type="checkbox"/> Enable hibernation as an additional stop behavior |
| Enable termination protection | <input type="checkbox"/> Protect against accidental termination |
| Monitoring | <input type="checkbox"/> Enable CloudWatch detailed monitoring <small>Additional charges apply.</small> |

Cancel **Previous** **Review and Launch** **Next: Add Storage**

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more about storage options in Amazon EC2.](#)

| Volume Type | Device | Snapshot | Size (GiB) | Volume Type | IOPS | Throughput (MB/s) | Delete on Termination | Encryption |
|-------------|-----------|-------------------------|------------|---------------------------|------------|-------------------|-------------------------------------|---------------|
| Root | /dev/sda1 | snap-0c063602c1f1839b7c | 20 | General Purpose SSD (gp2) | 100 / 3000 | N/A | <input checked="" type="checkbox"/> | Not Encrypted |

[Add New Volume](#)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

| Key | (128 characters maximum) | Value | (256 characters maximum) | Instances | Volumes | Network Interfaces |
|--|--------------------------|-------|--------------------------|-----------|---------|--------------------|
| <i>This resource currently has no tags</i> | | | | | | |

Choose the **Add tag** button or [click to add a Name tag](#). Make sure your [IAM policy](#) includes permissions to create tags.

[Add Tag](#) (Up to 50 tags maximum)

Next: Configure Security Group

Feedback English (US) ▾

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Cancel Previous Review and Launch Next: Configure Security Group

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group Select an existing security group

Security group name: tonnyXD_sg1
Description: first instance

| Type | Protocol | Port Range | Source | Description |
|------|----------|------------|------------------------|----------------------------|
| SSH | TCP | 22 | Custom 0.0.0.0/0 | e.g. SSH for Admin Desktop |
| HTTP | TCP | 80 | Custom 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop |

[Add Rule](#)

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details [Edit AMI](#)

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-0c1a7f89451184c8b
Free tier eligible
Ubuntu Server 20.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>)
Root Device Type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)

| Instance Type | ECUs | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance |
|---------------|------|-------|--------------|-----------------------|-------------------------|---------------------|
| t2.micro | - | 1 | 1 | EBS only | - | Low to Moderate |

Security Groups [Edit security groups](#)

Security group name: tonnyXD_sg1
Description: first instance

| Type | Protocol | Port Range | Source | Description |
|------|----------|------------|------------------------|----------------------------|
| SSH | TCP | 22 | Custom 0.0.0.0/0 | e.g. SSH for Admin Desktop |
| HTTP | TCP | 80 | Custom 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop |

[Cancel](#) [Previous](#) [Review and Launch](#)

Step 7: Review Instance Launch

HTTP TCP 80 ::/0

[Edit instance details](#)

Instance Details

| | | | |
|-----------------------------------|-----------------------------|-----------------------------------|---|
| Number of instances | 1 | Purchasing option | On demand |
| Network | vpc-3479b75f | Subnet | No preference (default subnet in any Availability Zone) |
| EBS-optimized | No | Monitoring | No |
| Termination protection | No | Shutdown behavior | Stop |
| Stop - Hibernate behavior | Disabled | Capacity Reservation | open |
| IAM role | None | Host ID | |
| Domain join directory | None | Host resource group name | |
| Tenancy | default | Affinity | Off |
| Credit specification | Standard | Kernel ID | Use default |
| RAM disk ID | Use default | RAM disk ID | Use default |
| Encclave | false | Metadata accessible | Enabled |
| Metadata version | V1 and V2 (token optional) | Metadata token response hop limit | 1 |
| Metadata token response hop limit | 1 | User data | |
| Assign Public IP | Use subnet setting (Enable) | Assign IPv6 IP | Use subnet setting (Enable) |
| Assign Carrier IP | | | |

[Cancel](#) [Previous](#) [Launch](#)

Feedback English (US) ▾

Step 7: Review Instance Launch

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[Edit storage](#)

Storage

| Volume Type | Device | Snapshot | Size (GiB) | Volume Type | IOPS | Throughput (MB/s) | Delete on Termination | Encrypted |
|-------------|-----------|------------------------|------------|-------------|------------|-------------------|-----------------------|---------------|
| Root | /dev/sda1 | snap-0c063602c11839b7c | 20 | gp2 | 100 / 3000 | N/A | Yes | Not Encrypted |

[Edit tags](#)

[Cancel](#) [Previous](#) [Launch](#)

Feedback English (US) ▾

Step 7: Review Instance Launch

Configure Instance

7. Review

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types. ED25519 keys are smaller and faster while offering the same level of security as RSA keys. Use ED25519 keys to improve the speed of authentication or if you have regulatory requirements that mandate the use of ED25519 keys.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Create a new key pair
Key pair name
tonyXD
Download Key Pair

You have to download the **private key file (*.pem file)** before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel Launch Instances

Feedback English (US) ▾

Launch instance wizard | EC2 Ma...

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:

Services ▾

Search for services, features, marketplace products, and docs [Alt+S]

tounovdattaTXD Mumbai Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Stop - Hibernate behavior: Disabled
Capacity Reservation: open
IAM role: None
Domain join directory: None
Tenancy: default
Credit specification: Standard
Host ID: Host resource group name: Affinity: Off
Kernel ID: Use default
RAM disk ID: Use default
Encclave: false
Metadata accessible: Enabled
Metadata version: V1 and V2 (token op
Metadata token response hop limit: 1
User data:
Assign Public IP: Use subnet setting (Snapshot: snap-0c063602c1183e
Assign IPv6 IP: Use subnet setting (Snapshot: snap-0c063602c1183e
Assign Carrier IP: Snapshot: snap-0c063602c1183e

Storage

Volume Type: Device: Snapshot: i

Root /dev/sda1 snap-0c063602c1183e

Tags

Edit storage
Encrypted
Not Encrypted
Edit tags
Cancel Previous Launch

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Step 7: Review Instance Launch

Configure Instance

7. Review

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types. ED25519 keys are smaller and faster while offering the same level of security as RSA keys. Use ED25519 keys to improve the speed of authentication or if you have regulatory requirements that mandate the use of ED25519 keys.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Create a new key pair
Key pair name
tonyXD
Download Key Pair

You have to download the **private key file (*.pem file)** before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel Launch Instances

Feedback English (US) ▾

Launch instance wizard | EC2 Ma...

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:

Services ▾

Search for services, features, marketplace products, and docs [Alt+S]

tounovdattaTXD Mumbai Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Stop - Hibernate behavior: Disabled
Capacity Reservation: open
IAM role: None
Domain join directory: None
Tenancy: default
Credit specification: Standard
Host ID: Host resource group name: Affinity: Off
Kernel ID: Use default
RAM disk ID: Use default
Encclave: false
Metadata accessible: Enabled
Metadata version: V1 and V2 (token op
Metadata token response hop limit: 1
User data:
Assign Public IP: Use subnet setting (Snapshot: snap-0c063602c1183e
Assign IPv6 IP: Use subnet setting (Snapshot: snap-0c063602c1183e
Assign Carrier IP: Snapshot: snap-0c063602c1183e

Storage

Volume Type: Device: Snapshot: i

Root /dev/sda1 snap-0c063602c1183e

Tags

Edit storage
Encrypted
Not Encrypted
Edit tags
Cancel Previous Launch

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tonyXD.pem

Show all

Launch Status

Your instances are now launching
The following instance launches have been initiated: i-03f4b24f2acea216f [View launch log](#)

Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances
Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.
Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can [connect](#) to them from the Instances screen. [Find out](#) how to connect to your instances.

Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

- Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
- Create and attach additional EBS volumes (Additional charges may apply)
- Manage security groups

[View Instances](#)

Instances | EC2 Management Console

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Instances (1) Info

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS |
|------|---------------------|----------------|---------------|--------------|--------------|-------------------|--|
| - | i-03f4b24f2acea216f | Running | t2.micro | Initializing | No alarms | ap-south-1a | ec2-65-0-85-112.ap-south-1.amazonaws.com |

Select an instance above

New EC2 Experience Tell us what you think

EC2 Dashboard

Events

Tags

Limits

Instances

Instances New

- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances New
- Dedicated Hosts
- Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

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Instance details | EC2 Management Console ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#InstanceDetails:instanceId=i-03f4b24f2acea216f

New EC2 Experience Tell us what you think

EC2 Dashboard Services ▾

Search for services, features, marketplace products, and docs [Alt+S]

tounovdattaTXD Mumbai Support

EC2 > Instances > i-03f4b24f2acea216f

Instance summary for i-03f4b24f2acea216f Info Updated less than a minute ago

Connect **Instance state**

| | | |
|--|--|--|
| Instance ID i-03f4b24f2acea216f | Public IPv4 address 65.0.85.112 open address | Private IPv4 addresses 172.31.41.167 |
| Instance state Running | Public IPv4 DNS ec2-65-0-85-112.ap-south-1.compute.amazonaws.com open address | Private IPv4 DNS ip-172-31-41-167.ap-south-1.compute.internal |
| Instance type t2.micro | Elastic IP addresses - | VPC ID vpc-3479b75f |
| AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more | IAM Role - | Subnet ID subnet-e716e18c |

Details Security Networking Storage Status checks Monitoring Tags

Instance details Info

| | | |
|-------------------------------|---------------------------------|-----------------------------------|
| Platform Ubuntu (inferred) | AMI ID ami-0c1a7f89451184c8b | Monitoring disabled |
| Platform details | AMI name | Termination protection Enabled |

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Connect to instance | EC2 Management Console ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#ConnectToInstance:instanceId=i-03f4b24f2acea216f

New EC2 Experience Tell us what you think

EC2 Services ▾

Search for services, features, marketplace products, and docs [Alt+S]

tounovdattaTXD Mumbai Support

EC2 > Instances > i-03f4b24f2acea216f > Connect to instance

Connect to instance Info Connect to your instance i-03f4b24f2acea216f using any of these options

EC2 Instance Connect Session Manager SSH client

Instance ID
i-03f4b24f2acea216f

Public IP address
65.0.85.112

User name
ubuntu

Connect using a custom user name, or use the default user name ubuntu for the AMI used to launch the instance.

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

Cancel **Connect**

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```
i-03f4b24f2acea216f | EC2 Instance | ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-03f4b24f2acea216f
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

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

System information as of Sat Jul 3 06:38:55 UTC 2021

System load: 0.12      Processes:          103
Usage of /: 6.5% of 19.32GB   Users logged in: 0
Memory usage: 22%           IPv4 address for eth0: 172.31.41.167
Swap usage: 0%

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable

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-172-31-41-167:~$
```

i-03f4b24f2acea216f

Public IPs: 65.0.85.112 Private IPs: 172.31.41.167

```
i-03f4b24f2acea216f | EC2 Instance | ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-03f4b24f2acea216f
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libjpeg8 amd64 8c-2ubuntu8 [2194 B]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libjbig0 amd64 2.1-3.1build1 [26.7 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libwebp6 amd64 0.6.1-2 [185 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libtiff5 amd64 4.1.0+git191117-2ubuntu0.20.04.1 [162 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libxpm4 amd64 1:3.5.12-1 [34.0 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libgd3 amd64 2.2.5-5.2ubuntu2 [118 kB]
Err:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 nginx-common all 1.18.0-0ubuntu1
  404 Not Found [IP: 13.231.249.135 80]
Err:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libnginx-mod-http-image-filter amd64 1.18.0-0ubuntu1
  404 Not Found [IP: 13.231.249.135 80]
Err:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libnginx-mod-http-xslt-filter amd64 1.18.0-0ubuntu1
  404 Not Found [IP: 13.231.249.135 80]
Err:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libnginx-mod-mail amd64 1.18.0-0ubuntu1
  404 Not Found [IP: 13.231.249.135 80]
Err:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libnginx-mod-stream amd64 1.18.0-0ubuntu1
  404 Not Found [IP: 13.231.249.135 80]
Err:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 nginx-core amd64 1.18.0-0ubuntu1
  404 Not Found [IP: 13.231.249.135 80]
Err:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 nginx all 1.18.0-0ubuntu1
  404 Not Found [IP: 13.231.249.135 80]
Fetched 1829 kB in 3s (584 kB/s)
E: Failed to fetch http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/pool/main/n/nginx/nginx-common_1.18.0-0ubuntu1_all.deb 404 Not Found [IP: 13.231.249.135 80]
E: Failed to fetch http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/pool/main/n/nginx/libnginx-mod-http-image-filter_1.18.0-0ubuntu1_amd64.deb 404 Not Found [IP: 13.231.249.135 80]
E: Failed to fetch http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/pool/main/n/nginx/libnginx-mod-http-xslt-filter_1.18.0-0ubuntu1_amd64.deb 404 Not Found [IP: 13.231.249.135 80]
E: Failed to fetch http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/pool/main/n/nginx/libnginx-mod-mail_1.18.0-0ubuntu1_amd64.deb 404 Not Found [IP: 13.231.249.135 80]
E: Failed to fetch http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/pool/main/n/nginx/libnginx-mod-stream_1.18.0-0ubuntu1_amd64.deb 404 Not Found [IP: 13.231.249.135 80]
E: Failed to fetch http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/pool/main/n/nginx/nginx-core_1.18.0-0ubuntu1_amd64.deb 404 Not Found [IP: 13.231.249.135 80]
E: Failed to fetch http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/pool/main/n/nginx/nginx_1.18.0-0ubuntu1_all.deb 404 Not Found [IP: 13.231.249.135 80]
E: Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?
ubuntu@ip-172-31-41-167:~$
```

i-03f4b24f2acea216f

Public IPs: 65.0.85.112 Private IPs: 172.31.41.167

```
Connect to instance | EC2 Manager | i-03f4b24f2acea216f | EC2 Instance | +  
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-03f4b24f2acea216f  
  
Get:9 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [282 kB]  
Get:10 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [40.9 kB]  
Get:11 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [456 B]  
Get:12 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [628 kB]  
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]  
Get:14 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [95.9 kB]  
Get:15 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [11.6 kB]  
Get:16 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [19.9 kB]  
Get:17 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-en [4316 B]  
Get:18 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [528 B]  
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f Metadata [265 kB]  
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [144 kB]  
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse Translation-en [104 kB]  
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n-f Metadata [9136 B]  
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1081 kB]  
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [238 kB]  
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [13.6 kB]  
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [318 kB]  
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted Translation-en [46.1 kB]  
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 c-n-f Metadata [456 B]  
Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [831 kB]  
Get:30 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [174 kB]  
Get:31 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [18.0 kB]  
Get:32 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [23.6 kB]  
Get:33 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [6472 B]  
Get:34 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [648 kB]  
Get:35 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [2568 B]  
Get:36 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [1120 B]  
Get:37 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [400 B]  
Get:38 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]  
Get:39 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [5788 B]  
Get:40 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe Translation-en [2060 B]  
Get:41 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [288 B]  
Get:42 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]  
Fetched 19.6 MB in 5s (3894 kB/s)
```

i-03f4b24f2acea216f

Public IPs: 65.0.85.112 Private IPs: 172.31.41.167

```
Connect to instance | EC2 Manager | i-03f4b24f2acea216f | EC2 Instance | +  
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-03f4b24f2acea216f  
  
Selecting previously unselected package libnginx-mod-mail.  
Preparing to unpack .../13-libnginx-mod-mail_1.18.0-0ubuntu1.2_amd64.deb ...  
Unpacking libnginx-mod-mail (1.18.0-0ubuntu1.2) ...  
Selecting previously unselected package libnginx-mod-stream.  
Preparing to unpack .../14-libnginx-mod-stream_1.18.0-0ubuntu1.2_amd64.deb ...  
Unpacking libnginx-mod-stream (1.18.0-0ubuntu1.2) ...  
Selecting previously unselected package nginx-core.  
Preparing to unpack .../15-nginx-core_1.18.0-0ubuntu1.2_amd64.deb ...  
Unpacking nginx-core (1.18.0-0ubuntu1.2) ...  
Selecting previously unselected package nginx.  
Preparing to unpack .../16-nginx_1.18.0-0ubuntu1.2_all.deb ...  
Unpacking nginx (1.18.0-0ubuntu1.2) ...  
Setting up libxml2:amd64 (1:3.5.12-1) ...  
Setting up libxpm4:amd64 (1.18.0-0ubuntu1.2) ...  
Setting up nginx-common (1.18.0-0ubuntu1.2) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /lib/systemd/system/nginx.service.  
Setting up libjbig0:amd64 (2.1-3_lbu1ld1) ...  
Setting up libnginx-mod-http-xslt-filter (1.18.0-0ubuntu1.2) ...  
Setting up libwebp6:amd64 (0.6.1-2ubuntu0.20.04.1) ...  
Setting up fonts-dejavu-core (2.37-1) ...  
Setting up libjpeg-turbo0:amd64 (2.0.3-0ubuntu1.20.04.1) ...  
Setting up libjpeg0:amd64 (8c-0ubuntu8) ...  
Setting up libnginx-mod-mail (1.18.0-0ubuntu1.2) ...  
Setting up fontconfig-config (2.13.1-2ubuntu3) ...  
Setting up libnginx-mod-stream (1.18.0-0ubuntu1.2) ...  
Setting up libtiff5:amd64 (4.1.0+git191117-2ubuntu0.20.04.1) ...  
Setting up libfontconfig1:amd64 (2.13.1-2ubuntu3) ...  
Setting up libgd3:amd64 (2.2.5-2.2ubuntu2) ...  
Setting up libnginx-mod-http-image-filter (1.18.0-0ubuntu1.2) ...  
Setting up nginx-core (1.18.0-0ubuntu1.2) ...  
Setting up nginx (1.18.0-0ubuntu1.2) ...  
Processing triggers for ufw (0.36-6) ...  
Processing triggers for systemd (245.4-4ubuntu3.6) ...  
Processing triggers for man-db (2.9.1.1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...  
ubuntu@ip-172-31-41-167:~$ sudo systemctl start nginx  
ubuntu@ip-172-31-41-167:~$
```

i-03f4b24f2acea216f

Public IPs: 65.0.85.112 Private IPs: 172.31.41.167



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.

Thank you for using nginx.

C. Deploy any dummy model on ELB

The screenshot shows the AWS Management Console search results for 'load balancer'. The search bar at the top contains 'load balancer'. The results are categorized into three sections:

- Services (11)**:
 - Global Accelerator**: Improve your application's availability and performance using the AWS Global Network
 - EC2**: Virtual Servers in the Cloud
 - Data Pipeline**: Orchestration for Data-Driven Workflows
 - Launch Wizard**: guided deployment of enterprise applications
- Features (20)**:
 - Load balancers**:
 - Lightsail feature
 - Load balancers**:
 - EC2 feature
- Workloads**: (No results shown)

On the right side of the search results, there is a sidebar with the following sections:

- Connected to your AWS on-the-go**: AWS Console Mobile App now supports 10 additional regions. Download the AWS Console Mobile App to your iOS or Android mobile device. [Learn more](#)
- AWS**: Your career with AWS Cloud Practitioner
- Training**: Get certified with the top 7 reasons to get AWS Certified.
- Amazon Machine Learning**: Machine learning features, use cases, and tutorials to help you build machine learning models.
- MachineLearning Resources**: Machine learning features, use cases, and tutorials to help you build machine learning models.

Screenshot of the AWS Cloud Console showing the Load Balancers section. The left sidebar shows various AWS services like Dedicated Hosts, Capacity Reservations, Images, Elastic Block Store, Network & Security, Load Balancing, Auto Scaling, and more. Under Load Balancing, 'Load Balancers' is selected. The main content area displays a search bar and a table header for 'Create Load Balancer'. A message states 'You do not have any load balancers in this region.' Below this, a 'Select a load balancer' section is shown.

Select load balancer type

Elastic Load Balancing supports four types of load balancers: Application Load Balancers, Network Load Balancers, Gateway Load Balancers, and Classic Load Balancers. Choose the load balancer type that meets your needs. Learn more about which load balancer is right for you.

Application Load Balancer

Choose an Application Load Balancer when you need a flexible feature set for your web applications with HTTP and HTTPS traffic. Operating at the request level, Application Load Balancers provide advanced routing and visibility features targeted at application architectures, including microservices and containers.

[Learn more >](#)

Network Load Balancer

Choose a Network Load Balancer when you need ultra-high performance, TLS offloading at scale, centralized certificate deployment, support for UDP, and static IP addresses for your application. Operating at the connection level, Network Load Balancers are capable of handling millions of requests per second securely while maintaining ultra-low latencies.

[Learn more >](#)

Gateway Load Balancer

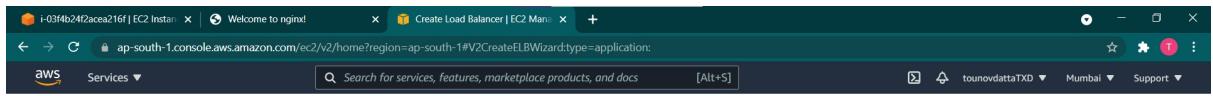
Choose a Gateway Load Balancer when you need to deploy and manage a fleet of third-party virtual appliances that support GENEVE. These appliances enable you to improve security, compliance, and policy controls.

[Learn more >](#)

Classic Load Balancer

PREVIOUS GENERATION

[Cancel](#)



Step 1: Configure Load Balancer

Basic Configuration

To configure your load balancer, provide a name, select a scheme, specify one or more listeners, and select a network. The default configuration is an Internet-facing load balancer in the selected network with a listener that receives HTTP traffic on port 80.

Name Only a-z, A-Z, 0-9 and hyphens are allowed

Scheme internet-facing Internal

IP address type

Listeners

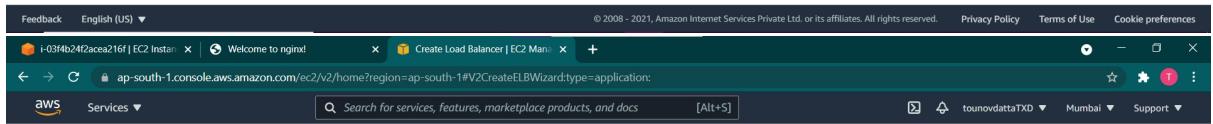
A listener is a process that checks for connection requests, using the protocol and port that you configured.

| Load Balancer Protocol | Load Balancer Port |
|------------------------------|--------------------|
| HTTP | 80 |
| Add listener | |

Availability Zones

Specify the Availability Zones to enable for your load balancer. The load balancer routes traffic to the targets in these Availability Zones only. You can specify only one subnet per Availability Zone. You must specify subnets from at least two Availability Zones to increase the availability of your load balancer.

[Cancel](#) [Next: Configure Security Settings](#)



Step 2: Configure Security Settings

⚠ Improve your load balancer's security. Your load balancer is not using any secure listener.
If your traffic to the load balancer needs to be secure, use the HTTPS protocol for your front-end connection. You can go back to the first step to add/configure secure listeners under Basic Configuration section. You can also continue with current settings.

[Cancel](#) [Previous](#) [Next: Configure Security Groups](#)



Step 3: Configure Security Groups

A security group is a set of firewall rules that control the traffic to your load balancer. On this page, you can add rules to allow specific traffic to reach your load balancer. First, decide whether to create a new security group or select an existing one.

Assign a security group Create a new security group Select an existing security group

| Security Group ID | Name | Description | Actions |
|----------------------|--|---|---------------------------|
| sg-0e2b5d0ec1a094f97 | awseb-e-enspxdp2k3-stack-AWSEBLoadBalancerSecurityGroup-UDLWBD68XDYM | Elastic Beanstalk created security group used when no ELB security groups are specified during ELB creation | Copy to r |
| sg-0102f6265014ea2e6 | awseb-e-enspxdp2k3-stack-AWSEBSecurityGroup-1XBV1JAJ7M362 | SecurityGroup for ElasticBeanstalk environment. | Copy to r |
| sg-6823act4 | default | default VPC security group | Copy to r |
| sg-0c87e4af87064fc7 | tonnyXD_sg1 | first instance | Copy to r |

Step 4: Configure Routing

Name

Target type Instance IP Lambda function

Protocol

Port

Protocol version HTTP1 HTTP2 gRPC

Health checks

Protocol

Path

[Advanced health check settings](#)

Screenshot of the AWS CloudFormation console showing the 'Create Load Balancer' wizard at Step 5: Register Targets. The page displays two registered targets: 'i-03f4b24f2acea216f' and 'i-03309691689d0b748', both running on port 80. A search bar at the top allows for filtering services, features, marketplace products, and docs.

Step 5: Register Targets

Register targets with your target group. If you register a target in an enabled Availability Zone, the load balancer starts routing requests to the targets as soon as the registration process completes and the target passes the initial health checks.

Registered targets

To deregister instances, select one or more registered instances and then click Remove.

| <input type="checkbox"/> | Instance | Name | Port | State | Security groups | Zone |
|--------------------------|---------------------|----------------|------|---------|--|-------------|
| <input type="checkbox"/> | i-03f4b24f2acea216f | | 80 | running | tonnyXD_sg1 | ap-south-1a |
| <input type="checkbox"/> | i-03309691689d0b748 | Dummymodel-env | 80 | running | awseb-e-enspxdp2k3-stack-AWSEBSecurityGroup-1XBV1... | ap-south-1a |

Instances

To register additional instances, select one or more running instances, specify a port, and then click Add. The default port is the port specified for the target group. If the instance is already registered on the specified port, you must specify a different port.

Add to registered on port 80

| <input type="checkbox"/> | Instance | Name | State | Security groups | Zone | Subnet ID | Subnet CIDR |
|-------------------------------------|---------------------|----------------|---------|------------------------|-------------|-----------------|----------------|
| <input checked="" type="checkbox"/> | i-03f4b24f2acea216f | | running | tonnyXD_sg1 | ap-south-1a | subnet-e716e18c | 172.31.32.0/20 |
| <input checked="" type="checkbox"/> | i-03309691689d0b748 | Dummymodel-env | running | awseb-e-enspxdp2k3-... | ap-south-1a | subnet-e716e18c | 172.31.32.0/20 |

Cancel Previous Next: Review

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ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#V2CreateELBWizard:type=application:

aws Services ▾ Search for services, features, marketplace products, and docs [Alt+S]

1. Configure Load Balancer 2. Configure Security Settings 3. Configure Security Groups 4. Configure Routing 5. Register Targets 6. Review

Step 6: Review

Please review the load balancer details before continuing.

Load balancer

| | | |
|-----------------|---|------|
| Name | tonyXD-elb1 | Edit |
| Scheme | Internet-facing | |
| Listeners | Port:80 - Protocol:HTTP | |
| IP address type | ipv4 | |
| VPC | vpc-3479b75f | |
| Subnets | subnet-e716e18c, subnet-97edc9db, subnet-022b4579 | |
| Tags | | |

Security groups

| | | |
|-----------------|---------------------|------|
| Security groups | sg-0c87e4af87064fcf | Edit |
|-----------------|---------------------|------|

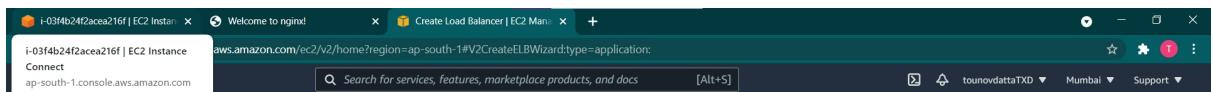
Routing

| | | |
|-----------------------|------------------|------|
| Target group | New target group | Edit |
| Target group name | tonyXD TG1 | |
| Port | 80 | |
| Target type | instance | |
| Protocol | HTTP | |
| Protocol version | HTTP1 | |
| Health check protocol | HTTP | |
| Path | / | |
| Health check port | traffic port | |
| Healthy threshold | 5 | |
| Unhealthy threshold | 2 | |

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Load Balancer Creation Status

Successfully created load balancer

Load balancer **tonyXD-elb1** was successfully created.

Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic, and for the targets to complete the registration process and pass the initial health checks.

Suggested next steps

- Discover other services that you can integrate with your load balancer. Visit the [Integrated services](#) tab within **tonyXD-elb1**
- Consider using AWS Global Accelerator to further improve the availability and performance of your applications. [AWS Global Accelerator console](#)

[Close](#)

The screenshot shows the AWS EC2 Management Console with the URL ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LoadBalancers:sort=loadBalancerName. On the left, there is a navigation sidebar with various services like Dedicated Hosts, Capacity Reservations, Images, AMIs, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces, Load Balancing, Auto Scaling, and Target Groups.

In the main content area, the "Load Balancers" section is selected. A table lists the created load balancer:

| Name | DNS name | State | VPC ID | Availability Zones | Type | Created / |
|-------------|--|--------|--------------|--------------------------|-------------|--------------|
| tonyXD-elb1 | tonyXD-elb1-806259608.ap... Edit | Active | vpc-3479675f | ap-south-1c, ap-south-1d | application | July 3, 2020 |

Below the table, a "Basic Configuration" panel shows the following details for the load balancer:

| Name | tonyXD-elb1 |
|----------|---|
| ARN | arn:aws:elasticloadbalancing:ap-south-1:700575038692:loadbalancer/app/tonyXD-elb1/b5e1f1e7a74c12a3 Edit |
| DNS name | tonyXD-elb1-806259608.ap-south-1.elb.amazonaws.com Edit (A Record) |
| State | Active |
| Type | application |



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.
