

EC2

Create a Windows Server in AWS :-

The screenshot shows the AWS EC2 Dashboard in the Asia Pacific (Mumbai) Region. The left sidebar includes links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, AMIs, and Volumes. The main area displays EC2 resources: 0 Instances (running), 0 Dedicated Hosts, 0 Elastic IPs, 0 Instances, 0 Key pairs, 0 Load balancers, 0 Placement groups, 1 Security groups, 0 Snapshots, and 0 Volumes. A callout box highlights the 'Launch instance' button. To the right, the 'Account attributes' section lists supported platforms (VPC), default VPC (vpc-07e9046b9ea16918f), settings, EBS encryption, zones, EC2 Serial Console, default credit specification, and console experiments. The 'Explore AWS' section promotes ML inference savings, spot instances, and better price performance.

Click on launch instance

The screenshot shows the AWS Cloud9 interface with the following details:

- Left Panel (Application and OS Images):** Displays a search bar and a "Quick Start" section with icons for Amazon Linux, Ubuntu, Windows, Red Hat, and SUSE Linux.
- Selected AMI:** Microsoft Windows Server 2012 R2 Base (ami-06882a26e012f1cf1) is selected, described as "Free tier eligible".
 - Virtualization: hvm
 - ENAv2 enabled: true
 - Root device type: ebs
- Right Panel (Summary):** Summary of the launch configuration:
 - Number of instances: 1
 - Virtual server type (instance type): t2.micro
 - Firewall (security group): New security group
 - Storage (volumes): 1 volume(s) - 30 GiB
- Bottom Right (Action Buttons):** A tooltip provides information about the free tier, followed by "Cancel" and "Launch instance" buttons.
- Bottom Navigation:** Includes links for Feedback, Unified Settings, Privacy, Terms, and Cookie preferences, along with a search bar and system status indicators (36°C, Light rain, ENG, 20:47, 17-07-2022).

Select a windows AMI (AMI is Amazon Machine Image Which contains predefined software configurations like os, storage, security, Networking).

▼ Instance type [Info](#)

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0124 USD per Hour
On-Demand Windows pricing: 0.017 USD per Hour

[Compare instance types](#)

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

Ashutosh



[Create new key pair](#)

For Windows instances, you use a key pair to decrypt the administrator password. You then use the decrypted password to connect to your instance.

Let Instance type be as it is if you do not want to change it. and click on **create new pair** then a window will pop-up where we will define name and type of our key pair. eg. Ashutosh.pem

EC2 Management Console | New Tab | Home - Canva | Add a heading - Presentation | Google Slides: Online Slideshow

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

aws Services Search for services, features, blogs, docs, and more [Alt+S]

Network settings

Network vpc-07e9046b9ea16918f

Subnet No preference (Default subnet in any availability zone)

Auto-assign public IP Enable

Firewall (security groups) Info

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.

Create security group Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

Allow RDP traffic from Anywhere 0.0.0.0/0

Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

⚠️ 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.

Summary

Number of instances **1**

ami-08e7239dc2220a91a

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance

Feedback Looking for language selection? Find it in the new Unified Settings

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36°C Light rain 21:33 17-07-2022

Tick all the **Firewall (security groups)** and keep the RDP Trafic from anywhere you msy chsnge a/c to your need.

▼ Configure storage [Info](#)

[Advanced](#)

1x

30

GiB

gp2



Root volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage X

[Add new volume](#)

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

0 x File systems

[Edit](#)

If we are using free tier don't try to do more customization, Let it be as it is.

Stop - Hibernate behavior

Hibernation stops your instance and saves the contents of the instance's RAM to the root volume. You cannot enable hibernation after launch. If no value is specified the value of the source template will still be used. If the template value is not specified then the default API value will be used.

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Microsoft Windows Server 2019 ...[read more](#)
ami-08e7239dc2220a91a

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
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Cancel [Launch instance](#)

Feedback Looking for language selection? Find it in the new Unified Settings [\[\]](#)

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22:35 17-07-2022

Let Advance Details as it is and Click on **Launch instance**

The screenshot shows the AWS EC2 Management Console interface. At the top, there are several tabs: EC2 Management Console, IAM Management Console, Directory Service, Add a heading - Presentation, and Hardik Pandya Profile - ICC. The main URL in the address bar is ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstances. The navigation bar includes the AWS logo, Services, a search bar with placeholder "Search for services, features, blogs, docs, and more" and keyboard shortcut "[Alt+S]", and user information for Mumbai (Ashutosh kumar).

A prominent message banner at the top states: "You've been opted into the new launch experience. [Find out more](#) about this experience or [send us feedback](#). You can still return to the previous version by opting-out." It includes a "Opt out to the old experience" button and a close button.

The main content area shows the "EC2 > Instances > Launch an instance" path. A success message box indicates: "Success" and "Successfully initiated launch of instance (i-0b8a7e92b657afeb1)". Below it is a link to "Launch log".

A sidebar titled "Stop - Hibernate behavior" provides information: "Hibernation stops your instance and saves the contents of the instance's RAM to the root volume. You cannot enable hibernation after launch. If no value is specified the value of the source template will still be used. If the template value is not specified then the default API value will be used."

The "Next Steps" section includes:

- 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 instance**: Your instance is launching and it might be a few minutes until it is in the running state, when it will be ready for you to use. Click [View Instances](#) to monitor your instance's status. Once your instance is in the 'running' state, you can connect to it from the Instances screen. Find out [how to connect to your instance](#)
- [View more resources to get you started](#)

At the bottom right of the main content area is a blue "View all instances" button. The bottom of the screen shows the Windows taskbar with various pinned icons (File Explorer, Mail, Edge, etc.) and system status information: Feedback, Looking for language selection? Find it in the new Unified Settings, © 2022, Amazon Internet Services Private Ltd. or its affiliates., Privacy, Terms, Cookie preferences, 33°C Haze, 22:37, 17-07-2022, ENG.

Our Instance Launched..!! View It

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes links for Instances, EC2 Management Console, IAM Management Console, Directory Service, Add a heading - Presentation, and Hardik Pandya Profile - ICC. The main search bar is set to "Search for services, features, blogs, docs, and more". The sidebar on the left is titled "New EC2 Experience" and lists various EC2-related options: EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Read it Later (with links to Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images (AMIs, AMI Catalog), and Elastic Block Store (Volumes). The main content area is titled "Instances (1) Info" and displays a table with one row. The table columns are: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. The single instance listed is "i-0b8a7e92b657afeb1", which is "Running" (indicated by a green checkmark), of type "t2.micro", and has an "Initializing" status check. It is located in the "ap-south-1a" availability zone with the public IP "ec2-15-206-168-". At the bottom of the page, there is a "Select an instance" section and a footer with the URL "https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:", copyright information "© 2022, Amazon Internet Services Private Ltd. or its affiliates.", and links for Privacy, Terms, and Cookie preferences. The system tray at the bottom shows icons for various applications like File Explorer, Mail, and Google Chrome, along with system status like "33°C Haze" and "22:39 17-07-2022".

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
-	i-0b8a7e92b657afeb1	Running	t2.micro	Initializing	No alarms	ap-south-1a	ec2-15-206-168-

Here Our Instance Is Ready and It's RUNNING...!!

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with various navigation options like EC2 Dashboard, Global View, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main area displays a table of instances with one row selected. The selected instance is an 'i-0b8a7e92b657afeb1' running on a t2.micro type. The details panel for this instance is expanded, showing its summary: Instance ID (i-0b8a7e92b657afeb1), Public IPv4 address (15.206.168.250), Private IPv4 address (172.31.42.85), Instance state (Running), Public IPv4 DNS (ec2-15-206-168-250.ap-south-1.compute.amazonaws.com), and Private IP DNS name (ip-172-31-42-85.ap-south-1.compute.internal). The bottom of the screen shows the Windows taskbar with various pinned icons.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
-	i-0b8a7e92b657afeb1	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-15-206-168-250.ap-south-1.compute.amazonaws.com

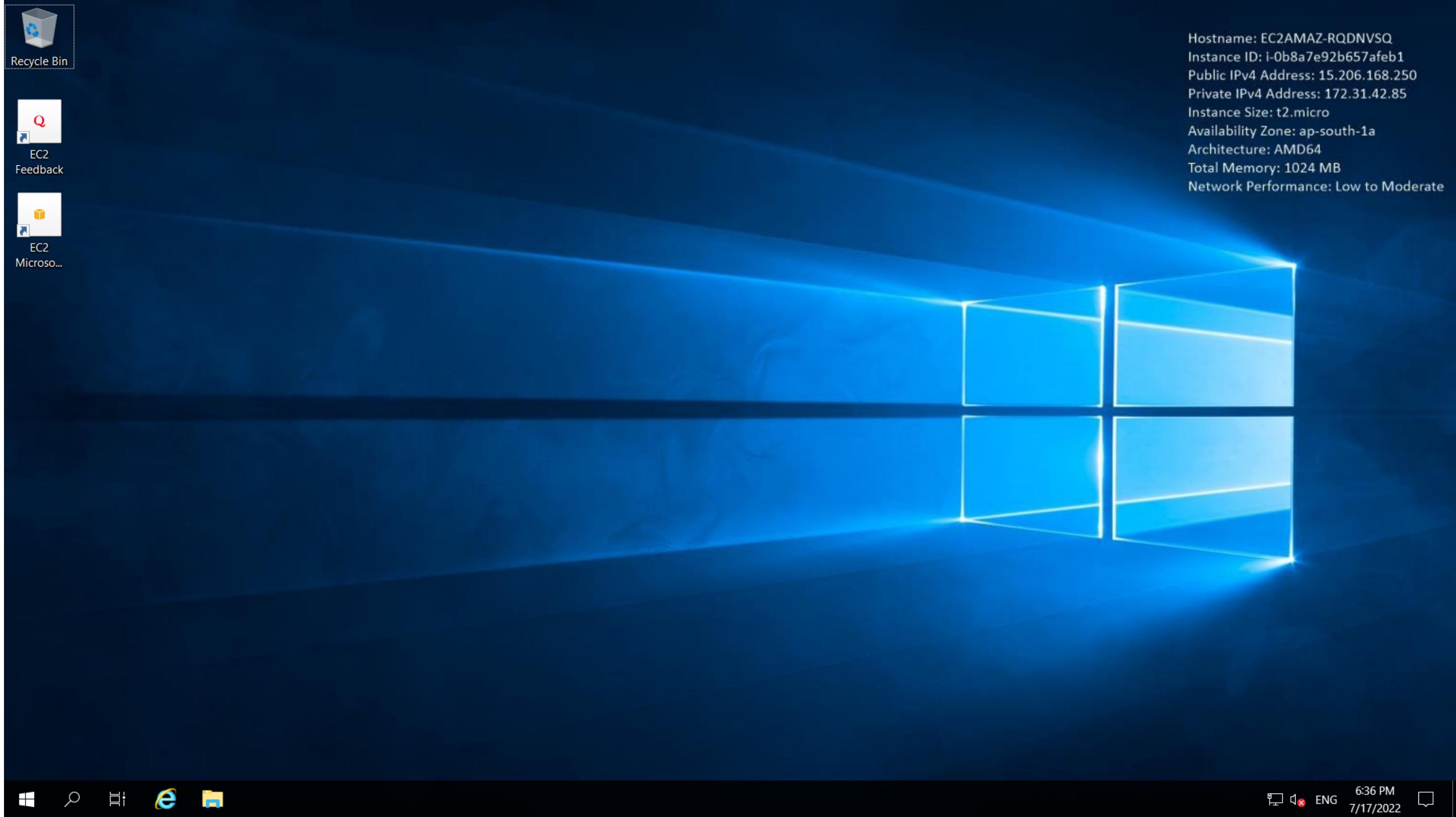
Instance: i-0b8a7e92b657afeb1

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary

Instance ID i-0b8a7e92b657afeb1	Public IPv4 address 15.206.168.250 open address	Private IPv4 addresses 172.31.42.85
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-15-206-168-250.ap-south-1.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-42-85.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-42-85.ap-south-1.compute.internal	

Tick the checkBox of the instance which you want to connect and access through your computer and click on connect



And finally through RDP we are able to connect our instance with the use of private key ie. .pem file and now we can use our EC2 instance as we want.