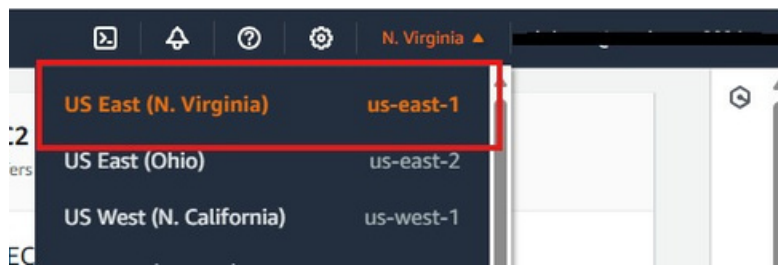


AWS Resource Setup – Setup EC2 Instances

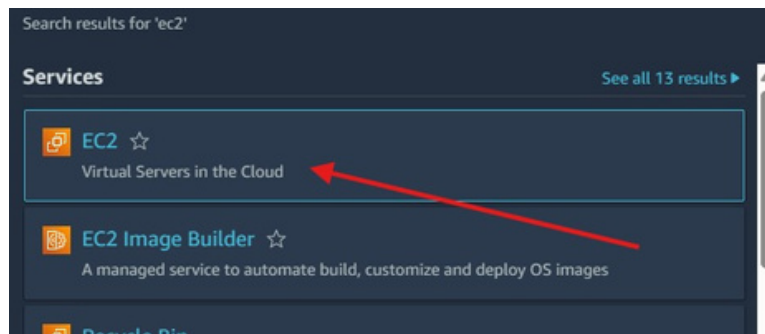
*****NOTE: HIBERNATE INSTANCE AFTER USE*****

Setup Instructions

1. Sign-in to AWS Console
 - a. Enter Username and Password provided by AWS administrator
 - b. You'll be asked to create a new password upon login
2. In the upper right corner, set region



3. In 'Services' search bar type "EC2"



4. Click "Launch Instance"
5. Choose a descriptive name for the instance



6. Application and OS Images (selecting a machine image)
 - a. Searchfor->"Ubuntu Server 24.04 LTS (HVM)"

Name
Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

Description
Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Canonical, Ubuntu, 24.04, amd64 noble image

Image ID
ami-020cba7c55df1f615

Username ⓘ
ubuntu

Catalog
Quick Start AMIs

Published
2025-06-10T10:42:58.000Z

Architecture
x86_64

Virtualization
hvm

Root device type
ebs

ENA En
Yes

Boot mode

Verified provider

Free tier eligible

[Brow](#)
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7. Change Instance Type: "m5.xlarge"

▼ Instance type [Info](#) | [Get advice](#)

Instance type
m5.xlarge
Family: m5 4 vCPU 16 GiB Memory Current generation: true On-Demand Linux base pricing: 0.192 USD per Hour
On-Demand Windows base pricing: 0.376 USD per Hour On-Demand Ubuntu Pro base pricing: 0.199 USD per Hour
On-Demand RHEL base pricing: 0.25 USD per Hour On-Demand SUSE base pricing: 0.248 USD per Hour

☒ All generations
[Compare instance types](#)

Additional costs apply for AMIs with pre-installed software

8. At the Key Pair box, click "Create a new key pair"

▼ 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

Select ▼

[Create new key pair](#)

- a. Name your key pair using the following convention -> FirstinitialLastname-kp
- b. Select Type "RSA"
- c. Select Format ".pem"

Key pair name
Key pairs allow you to connect to your instance securely.

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type


☒ **RSA**
RSA encrypted private and public key pair

☐ **ED25519**
ED25519 encrypted private and public key pair

Private key file format

☒ **.pem**
For use with OpenSSH

☐ **.ppk**
For use with PuTTY

 When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

NOTE: a .pem file will be downloaded. Place this file in (secure) location where it can be accessed later

Expand "Network settings"

9.

For first user in group:

- In the "Firewall (security groups)" sections click "Create Security Group"
- Set appropriate settings for security across the working group

Or for later users

- "Select existing security groups" The "Common security groups"
- dropdown box will appear. Select "intern2025-sg"

▼ Network settings [Info](#)

Network [Info](#)

Subnet [Info](#)
No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)
Enable
[Additional charges apply](#) when outside of [free tier allowance](#)

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

Common security groups [Info](#)

10. Configure Storage according to the following specs

a. 1x 50 GiB Gp3

▼ **Configure storage** [Info](#) Advanced

1x 50 GiB gp3 Root volume, 3000 IOPS, Not encrypted

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

[Add new volume](#)

11. Click "Advanced" to view more options for storage specifications

a. Click "Show details" to reveal options:

▼ **Storage (volumes)** [Info](#) Simple

EBS Volumes [Show details](#)

No Data Lifecycle Manager policies targeting this instance [Show details](#)

File systems [Show details](#)

b. Choose to Encrypt the volume:

EBS Volumes [Hide details](#)

▼ **Volume 1 (AMI Root) (Custom)**

Storage type Info EBS	Device name - required Info /dev/xvda	Snapshot Info snap-0230eddc242d8212c
Size (GiB) Info 100	Volume type Info gp3	IOPS Info 3000
Delete on termination Info Yes	Encrypted Info Encrypted	KMS key Info Select
Throughput Info 125		

c. Collapse "Storage volumes"

12. Configure ability to hibernate instance

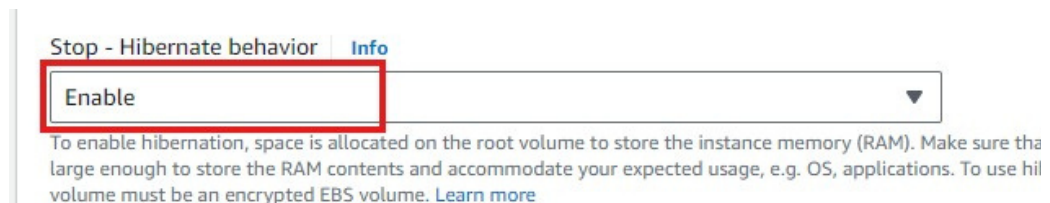
a. Click "Advanced Details" to expand options



The screenshot shows the 'Advanced details' section of the AWS EC2 instance configuration page. It is the bottom-most section and is highlighted with a red rectangular border. Above it are sections for 'Key pair (login)', 'Network settings' (with an 'Edit' button), and 'Storage (volumes)' (with a 'Simple' link). Each section has a right-pointing triangle icon and an 'Info' link.

b. Scroll to "Stop – Hibernate behavior"

c. Choose "Enable"



The screenshot shows the 'Stop - Hibernate behavior' dropdown menu. The 'Enable' option is selected and highlighted with a red rectangular border. Below the dropdown, there is explanatory text: 'To enable hibernation, space is allocated on the root volume to store the instance memory (RAM). Make sure that it is large enough to store the RAM contents and accommodate your expected usage, e.g. OS, applications. To use hibernation, the root volume must be an encrypted EBS volume. [Learn more](#)'.

13. Review Summary & Launch

a. click "Launch Instance"