

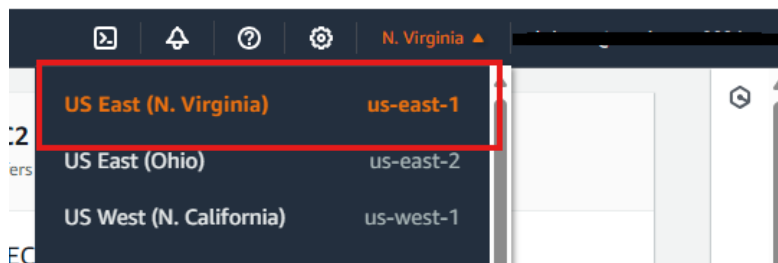
# AWS Resource Setup – Setup EC2 Instances

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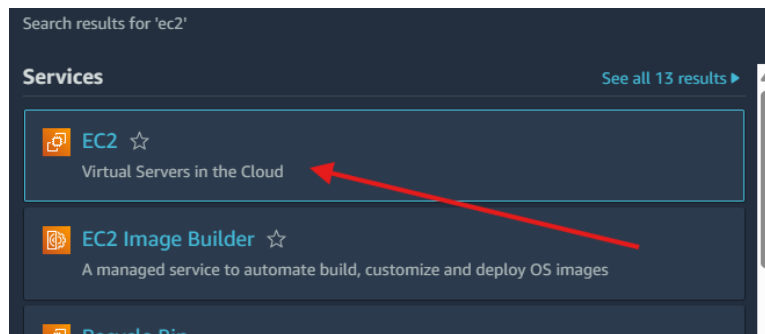
**\*\*\*NOTE: HIBERNATE INSTANCE AFTER USE\*\*\***

## 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. Search for -> "ami-0071a03652ef3189e"

Selected AMI: (ami-08a0d1e16fc3f61ea) (Quickstart AMIs)

Q ami-0071a03652ef3189e

Quickstart AMIs (47) Commonly used AMIs	My AMIs (0) Created by me	AWS Marketplace AMIs (10700) AWS & trusted third-party AMIs	Community AMIs (500) Published by anyone
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- b. Press Select

The following machine descriptors should match:

**Deep Learning OSS Nvidia Driver AMI GPU TensorFlow 2.16 (Ubuntu 20.04)**

**Platform: Ubuntu**

**Root device type: ebs**

**Virtualization: hvm**

**ENA enabled: Yes**

**Architecture: 64-bit (x86)**

7. Change Instance Type: "t2.xlarge"

t2.xlarge ←

Family: t2 4 vCPU 16 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.1856 USD per Hour

On-Demand RHEL base pricing: 0.2456 USD per Hour

On-Demand Windows base pricing: 0.2266 USD per Hour

On-Demand SUSE base pricing: 0.2856 USD per Hour

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**

9. Expand "Network settings"

**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 "launch-wizard-1"

▼ 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. 1 x 100 GiB Gp3

1x  GiB  Root volume (Not encrypted)

[Add new volume](#)

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

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

1x  GiB  Root volume (Not encrypted)

a. Click "Show details" to reveal options:

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

**EBS Volumes** [Show details](#)

**No Data Lifecycle Manager policies targeting this instance**  
Creating backups can help you prevent data loss. [Learn more](#)

**File systems** [Show details](#)

b. Choose to Encrypt the volume:

**EBS Volumes** [Hide details](#)

▼ Volume 1 (AMI Root) (Custom)

Storage type <a href="#">Info</a>	Device name - required <a href="#">Info</a>	Snapshot <a href="#">Info</a>
EBS	/dev/xvda	snap-0230eddc242d8212c
Size (GiB) <a href="#">Info</a>	Volume type <a href="#">Info</a>	IOPS <a href="#">Info</a>
<input type="text" value="100"/>	<input type="text" value="gp3"/>	<input type="text" value="3000"/>
Delete on termination <a href="#">Info</a>	Encrypted <a href="#">Info</a>	KMS key <a href="#">Info</a>
<input type="text" value="Yes"/>	<input type="text" value="Encrypted"/>	<input type="text" value="Select"/>
Throughput <a href="#">Info</a>	<input type="text" value="Encrypted"/>	
<input type="text" value="125"/>	<input type="text" value="Not encrypted"/>	

c. Collapse "Storage volumes"

## 12. Configure ability to hibernate instance

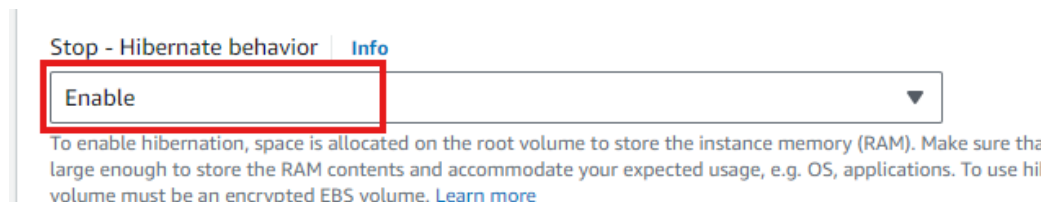
a. Click "Advanced Details" to expand options



This screenshot shows the configuration options for an AWS EC2 instance. The options are listed in a vertical stack: "Key pair (login)", "Network settings", "Storage (volumes)", and "Advanced details". The "Advanced details" option is highlighted with a red rectangular box. Each option has a right-pointing arrow and an "Info" link.

b. Scroll to "Stop – Hibernate behavior"

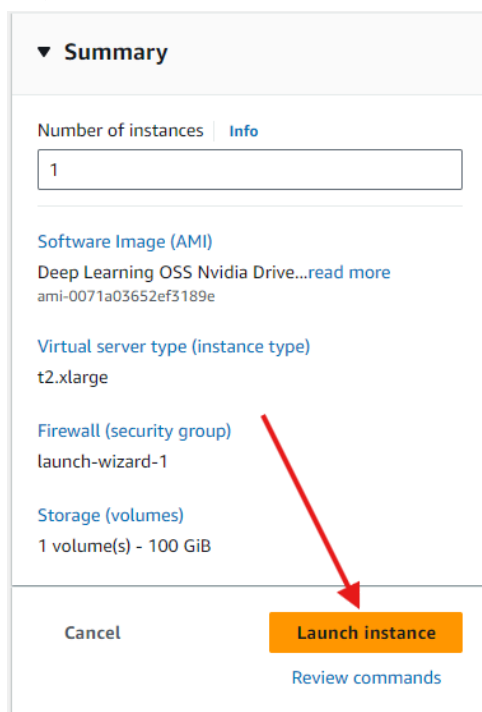
c. Choose "Enable"



This screenshot shows the "Stop - Hibernate behavior" dropdown menu. The "Enable" option is selected and highlighted with a red rectangular box. Below the dropdown, there is a text explanation: "To enable hibernation, space is allocated on the root volume to store the instance memory (RAM). Make sure the volume 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. If setting match, click "Launch Instance"



This screenshot shows the "Summary" section of the AWS EC2 instance launch wizard. It lists the following configuration details: "Number of instances" (1), "Software Image (AMI)" (Deep Learning OSS Nvidia Drive...), "Virtual server type (instance type)" (t2.xlarge), "Firewall (security group)" (launch-wizard-1), and "Storage (volumes)" (1 volume(s) - 100 GiB). At the bottom, there are two buttons: "Cancel" and "Launch instance". A red arrow points to the "Launch instance" button. Below the "Launch instance" button is a link that says "Review commands".