

# Launch AWS EC2 Instance with Intel® Distribution of OpenVINO™ toolkit

*Enabling developers to optimize pre-trained models and accelerate the deployment of deep learning solutions with a write-once-deploy-anywhere approach across Intel® powered CPUs, integrated GPUs, Intel discrete GPUs, Intel NPUs, and FPGAs.*

The Intel® Distribution of OpenVINO™ toolkit on Amazon Machine Image (AMI) enables developers to optimize pre-trained models and accelerate the deployment of deep learning solutions with a write-once-deploy-anywhere approach across Intel-powered CPUs, integrated GPUs, Intel discrete GPUs, Intel NPUs, and FPGAs.

OpenVINO AMI comes pre-equipped with the Intel® Distribution of OpenVINO™ toolkit development and deployment components, such as the Model Optimizer and the Inference Engine. It includes Jupyter interface to run OpenVINO notebooks.

This document illustrates all the steps required to deploy AMI in your AWS account and access the Jupyter environment from your local machine. Please note that the AWS account you are using for deploying this AMI needs to have public IP assigned for Jupyter notebooks to be accessed from a local system.

## Quick Launch Instructions:

1. Search for [OpenVINO AMI in AWS Marketplace](#) and Launch the AMI.

**Note:** Make sure the public IP address is enabled and is launched in a VPC with internet access.

2. Open Jupyter Notebook by navigating to port 8888,  
the URL is `http://<ec2-instance-public-ip>:8888`

3. The Jupyter Notebook password is `<ec2-instance-id>`

4. To run sample notebooks, you can navigate to `/notebooks/`.

Sample URL: `http://<ec2-instance-public-ip>:8888/lab/tree/notebooks`

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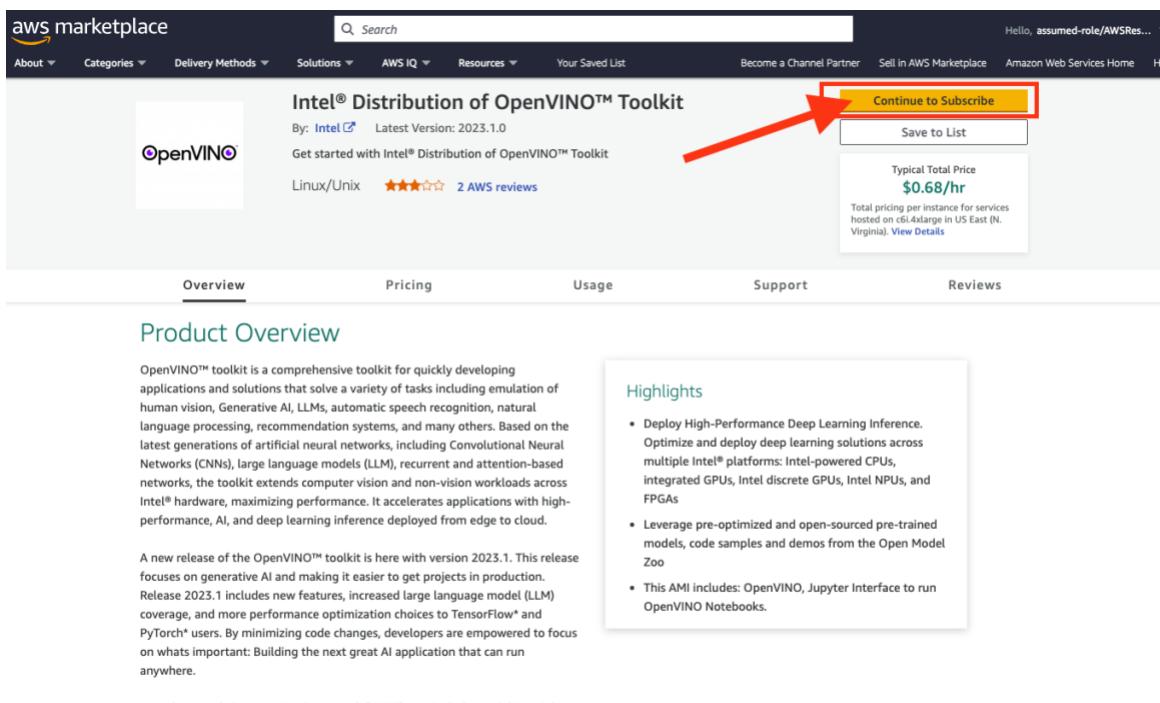
# Search for AMI and Subscribe

There are two ways to subscribe to the OpenVINO™ marketplace offering:

- **Option 1:** Navigate to the AMI webpage directly by using this link.  
<https://aws.amazon.com/marketplace/pp/prodview-sa76mydxmlmwk>
- **Option 2:** Navigate to the AWS marketplace by using the link <https://aws.amazon.com/marketplace> and then search for “Intel® Distribution of OpenVINO™ Toolkit”. Select the “Intel® Distribution of OpenVINO™ Toolkit” AMI.

After selecting the AMI in the AWS marketplace:

## 1. Click on “Continue to Subscribe”



The screenshot shows the AWS Marketplace product page for the "Intel® Distribution of OpenVINO™ Toolkit". The product image is for "OpenVINO™". The title is "Intel® Distribution of OpenVINO™ Toolkit" and it is listed as "By: Intel". The latest version is 2023.1.0. Below the title, there is a brief description: "Get started with Intel® Distribution of OpenVINO™ Toolkit" and "Linux/Unix". There are 2 AWS reviews with a rating of ★★★★☆. To the right of the product image, there is a yellow button labeled "Continue to Subscribe" with a red arrow pointing to it. Below the "Continue to Subscribe" button is a "Save to List" button. Further down, there is a box containing the "Typical Total Price" of "\$0.68/hr". At the bottom of the page, there are tabs for "Overview", "Pricing", "Usage", "Support", and "Reviews". On the left side, under "Product Overview", there is a detailed description of the toolkit's capabilities and a new release note. On the right side, there is a "Highlights" section with a bulleted list of features.

## 2. Click on “Continue to Configuration”

The screenshot shows the AWS Marketplace interface. At the top, there's a navigation bar with links like 'Categories', 'Delivery Methods', 'Solutions', 'Migration Mapping Assistant', 'Your Saved List', 'Partners', 'Sell in AWS Marketplace', 'Amazon Web Services Home', and 'Help'. Below the navigation bar, the product title 'Intel® Distribution of OpenVINO™ Toolkit' is displayed. To the right of the title is a yellow 'Continue to Configuration' button, which is highlighted with a red rectangular box and a red arrow pointing to it. Below the title, there's a section titled 'Subscribe to this software' with a note about being subscribed and terms and pricing details. Further down, there are sections for 'Terms and Conditions' and 'Intel Offer', followed by a table showing product details like Effective date (10/22/2020) and Expiration date (N/A). A 'Show Details' link is also present.

## 3. Click on “Continue to Launch”

This screenshot shows the configuration step in the AWS Marketplace. The top navigation bar is identical to the previous screenshot. The main content area is titled 'Intel® Distribution of OpenVINO™ Toolkit'. On the left, there are dropdown menus for 'Fulfillment option' (set to '64-bit (x86) Amazon Machine Image (AMI)'), 'Software version' (set to '2023.1.0 (Oct 07, 2023)'), and 'Region' (set to 'US East (N. Virginia)'). Below these, a note says 'Use of Local Zones or WaveLength infrastructure deployment may alter your final pricing.' On the right, there's a 'Pricing information' sidebar with two sections: 'Software Pricing' and 'Infrastructure Pricing'. The 'Software Pricing' section lists the product as 'Intel® Distribution of OpenVINO™ Toolkit' running on 'c6i.4xlarge' at '\$0/hr'. The 'Infrastructure Pricing' section shows 'EC2: 1 \* c6i.4xlarge' and 'Monthly Estimate: \$490.00/month'. At the bottom of the configuration section, there are links for 'Ami Id', 'Ami Alias', 'Product Code', and 'Release notes'.

4. You have two options to launch the AMI under “Choose Action”,

- a. [Launch from Website](#)
- b. [Launch Through EC2](#)

The screenshot shows the AWS Marketplace interface for the Intel® Distribution of OpenVINO™ Toolkit. At the top, there's a navigation bar with links for Categories, Delivery Methods, Solutions, Migration Mapping Assistant, Your Saved List, Partners, Sell in AWS Marketplace, Amazon Web Services Home, and Help. A search bar is also present. The main content area displays the product details for the Intel® Distribution of OpenVINO™ Toolkit, including its configuration (64-bit x86 Amazon Machine Image (AMI) running on c5n.2xlarge), software version (2021.1), and region (US East (N. Virginia)). Below this, there's a 'Usage Instructions' button. The 'Choose Action' dropdown is highlighted with a red box and an arrow pointing to it. The dropdown contains the option 'Launch from Website'. A tooltip next to the dropdown says 'Choose this action to launch from this website'. At the bottom, there's an 'EC2 Instance Type' section showing 'c5n.2xlarge' selected, with details: Memory: 21 GB and CPU: 8 virtual cores.

# AMI Launch Option 1: “Launch from Website”:

## 1. Select your desired EC2 Instance Type

The screenshot shows the AWS Marketplace interface for the Intel® Distribution of OpenVINO™ Toolkit. In the 'Choose Action' section, 'Launch from Website' is selected. The 'EC2 Instance Type' dropdown is open, showing 'c5n.2xlarge'. A red arrow points to this dropdown. To its right, detailed instance information is displayed: Memory: 21 GiB, CPU: 8 virtual cores, Storage: EBS Only, and Network Performance: Up to 25 Gigabit Ethernet.

## 2. Select your VPC Settings

Make sure your VPC and subnet has internet access.

Please refer to “[Create VPC with internet access](#)” on page 17 for detailed instructions.

The screenshot shows the same AWS Marketplace page for the Intel® Distribution of OpenVINO™ Toolkit. The 'EC2 Instance Type' dropdown is still set to 'c5n.2xlarge'. Below it, the 'VPC Settings' section is visible. A red arrow points to the dropdown menu in this section, which is currently empty (indicated by a red redaction box). A note below the dropdown states: "\* indicates a default vpc".

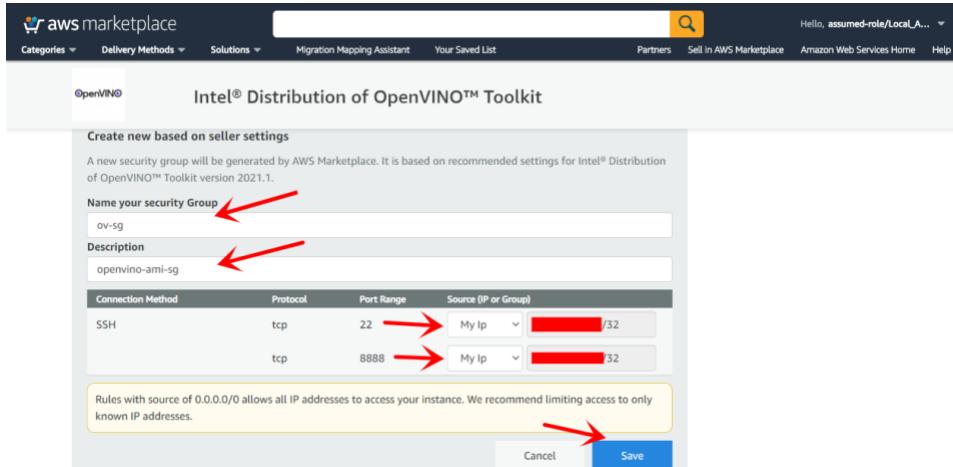
### 3. Select your Subnet Settings

The screenshot shows the AWS Marketplace interface for the Intel® Distribution of OpenVINO™ Toolkit. In the 'Subnet Settings' section, there is a dropdown menu with a red arrow pointing to it. Below the dropdown, the IPv4 CIDR block is listed as 10.0.0.0/24. A link to 'Create a subnet in EC2' is present, along with a note: '(Ensure you are in the selected VPC above)'. The 'Security Group Settings' section follows, featuring a dropdown menu with 'launch-wizard-3' selected.

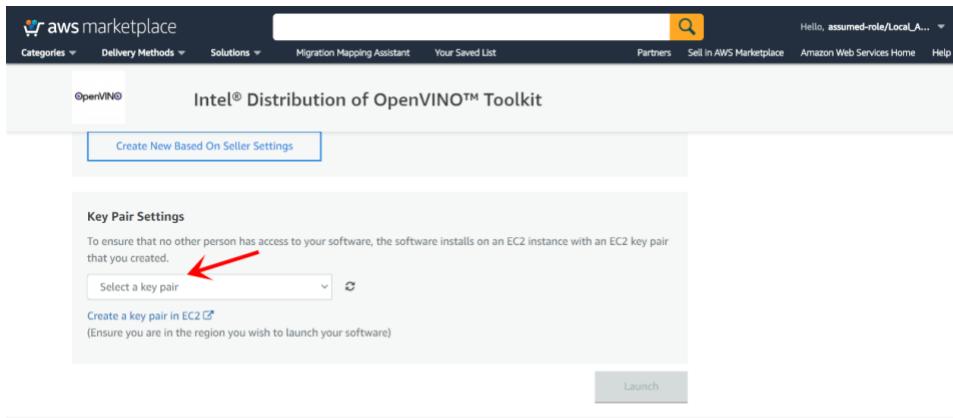
### 4. Under Security Group Settings, click on “Create New Based on Seller Settings”.

- Enter “Name” and “Description” for the security group.
- For Source (IP or Group), we recommend “MY IP”, you could choose “anywhere” also.
- The security group needs two open ports, “22” for SSH login, “8888” for Jupyter access.

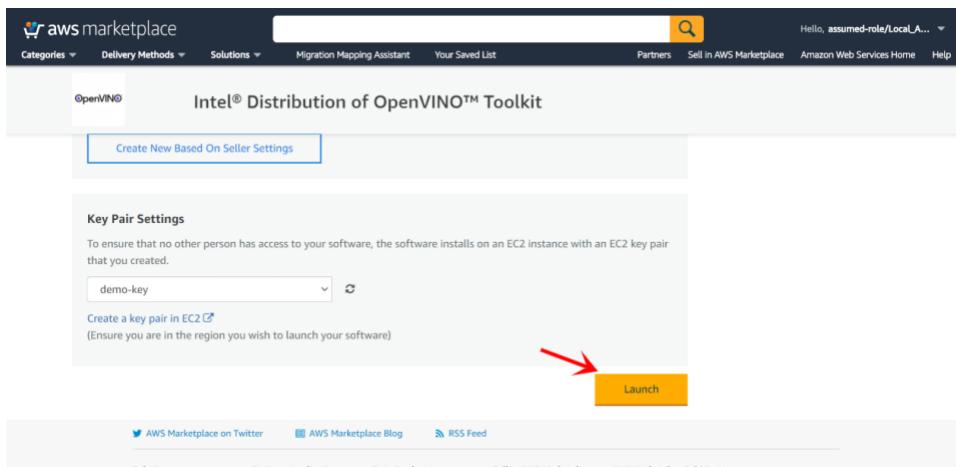
The screenshot shows the AWS Marketplace interface for the Intel® Distribution of OpenVINO™ Toolkit. In the 'Security Group Settings' section, there is a dropdown menu labeled 'Select a security group' with a red arrow pointing to it. Below the dropdown, a blue button labeled 'Create New Based On Seller Settings' is highlighted with a red arrow. The 'Key Pair Settings' section is visible at the bottom.



## 5. Select an existing Key Pair or create a new key pair



## 6. After selecting all the required fields above, click “Launch”



## 7. Instance is successfully launched. Click on “EC2 Console.

Congratulations! An instance of this software is successfully deployed on EC2!

AMI ID: ami-034310fd178033708 (View Launch Configuration Details)

You can view this instance on [EC2 Console](#). You can also view all instances on [Your Software](#). Software and AWS hourly usage fees apply when the instance is running and will appear on your monthly bill.

You can launch this configuration again below or go to the [configuration page](#) to start a new one.

**Configuration Details**

Fulfillment Option: 64-bit (x86) Amazon Machine Image (AMI)  
Intel® Distribution of OpenVINO™ Toolkit  
running on c5n.2xlarge

## 8. [Optional] Allocating Elastic IP address.

If you stop and start the instance, the IP address will change. Do this step if you want to keep the same IP address.

Go to “Elastic IPs”. Click on “Allocate Elastic IP address”.

Elastic IP addresses (4)

Actions Allocate Elastic IP address

Name	Allocated IPv4 add...	Type	Allocation ID
...	...	...	...
...	...	...	...
...	...	...	...

Click on “Allocate”.

Elastic IP address settings

Network Border Group: us-west-1

Public IPv4 address pool: Amazon's pool of IPv4 addresses

Global static IP addresses

Create accelerator

Cancel Allocate

Go to “Actions”. Select “Associate Elastic IP address”.

The screenshot shows the AWS Elastic IP addresses page. On the left sidebar, under 'Network & Security', 'Elastic IPs' is selected. In the main content area, there is a table titled 'Elastic IP addresses (1/5)'. The first row has a red arrow pointing to the 'Actions' column, which contains two buttons: 'Associate Elastic IP address' (highlighted with a red box) and 'Disassociate Elastic IP address'. Below the table, there are tabs for 'Summary' and 'Tags'.

Choose your instance. Click on “Associate”.

The screenshot shows the 'Associate Elastic IP address' dialog box. It starts with a header 'Associate Elastic IP address' and a sub-header 'Choose the instance or network interface to associate to this Elastic IP address'. A red box highlights the 'Elastic IP address' input field, which contains a redacted value. Below it, a 'Resource type' section has a radio button for 'Instance' selected. A warning message states: 'If you associate an Elastic IP address to an instance that already has an Elastic IP address associated, this previously associated Elastic IP address will be disassociated but still allocated to your account.' A red arrow points to the 'Instance' dropdown menu, which also contains a redacted value. Under 'Private IP address', there is a dropdown menu with a redacted value and a link 'Choose a private IP address'. At the bottom right, there is a red box around the 'Associate' button.

Go to “Instances”.

Copy Public IPv4 address and instance-id, they will be public IP and password to Jupyter Notebook.

The screenshot shows the AWS Instances page. On the left sidebar, 'Instances' is selected. In the main content area, there is a table titled 'Instances (1/1)'. The single row has a red arrow pointing to the 'Name' column, which contains a redacted value. Below the table, there is a detailed view for the instance, showing the 'Details' tab. Under 'Public IPv4 address', there is a red box around the value '10.0.4.98' and a red arrow pointing to the 'open address' link.

# AMI Launch Option 2: “Launch through EC2”:

The screenshot shows the AWS Marketplace interface for the Intel® Distribution of OpenVINO™ Toolkit. The product details include a Fulfillment Option (64-bit (x86) Amazon Machine Image (AMI) running on c5n.2xlarge), Software Version (2021.1), and Region (US East (N. Virginia)). Below these, there is a 'Usage Instructions' button. At the bottom, there is a 'Choose Action' dropdown set to 'Launch through EC2' and a large yellow 'Launch' button.

## 1. Choose instance type

Choose an instance and then click “Configure Instance Details”.

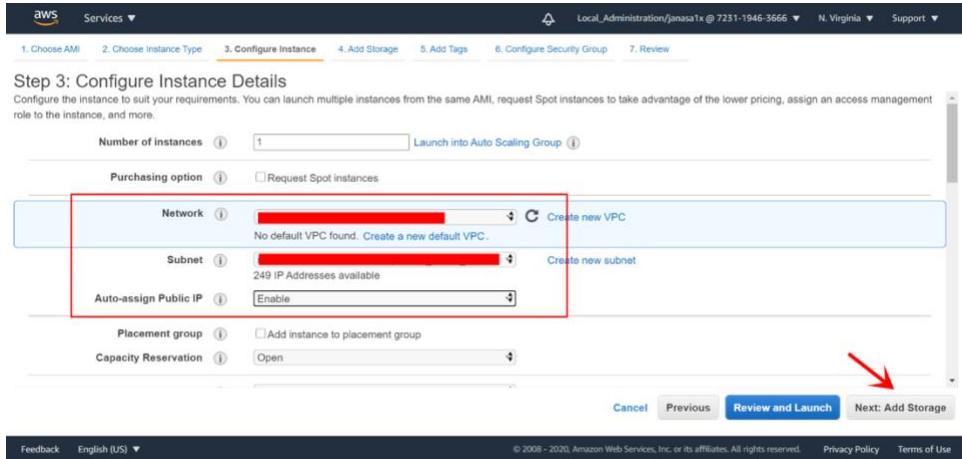
Here we have picked a *c5.4xlarge (68 ECUs, 16 vCPUs, 32 GiB memory, EBS only)*.

The screenshot shows the AWS EC2 instance selection screen. It lists several instance types, with the 'c5.4xlarge' option selected. The table columns include Family, Type, vCPUs, Memory (GiB), Instance Storage (GB), EBS-Optimized Available, Network Performance, and IPv6 Support. At the bottom, there are 'Cancel', 'Previous', 'Review and Launch' (highlighted in blue), and 'Next: Configure Instance Details' buttons.

## 2. Configure Instance

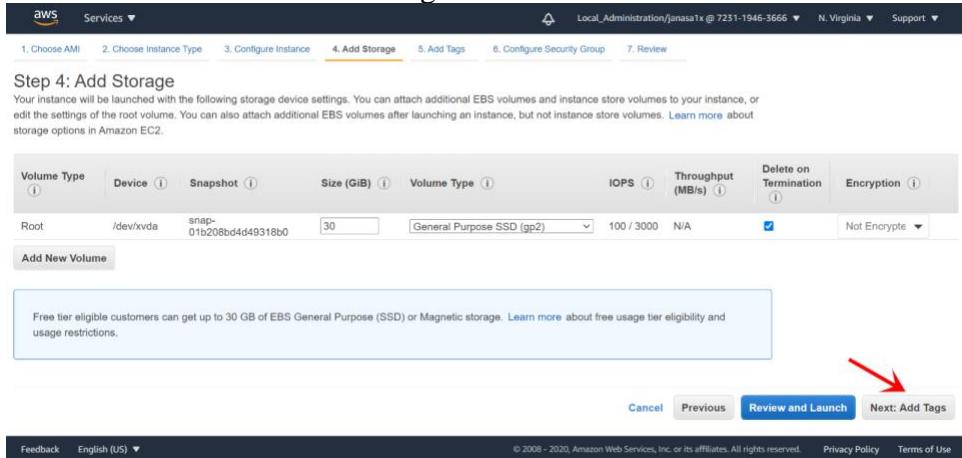
The compute instance selected in the previous step is only available in a Virtual Private Cloud (VPC), so choose the default VPC and enable “Auto-assign Public IP”.

In case you don't have a default VPC with Public IP, follow the instructions [Create VPC with internet access](#) section to create one.



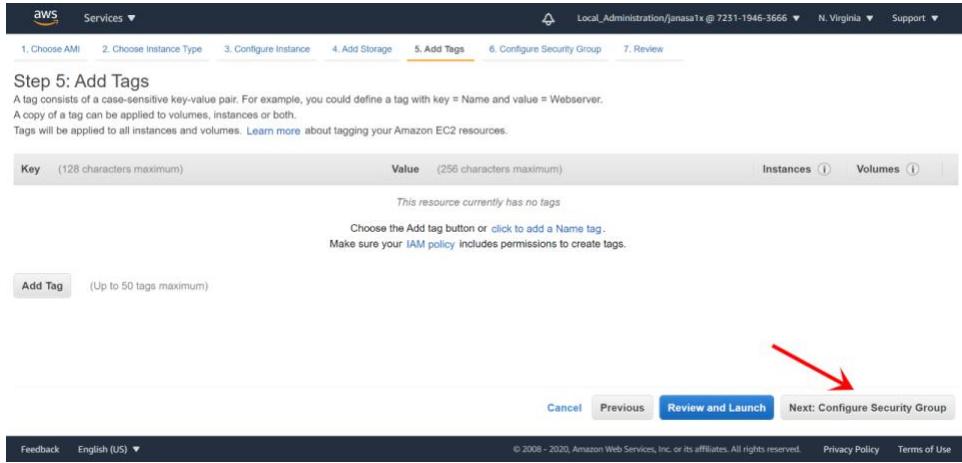
### 3. Add storage

Update the storage size based on your Requirement. We would recommend selecting a 30 GB minimum to start with as shown in the image below.



### 4. Add tags

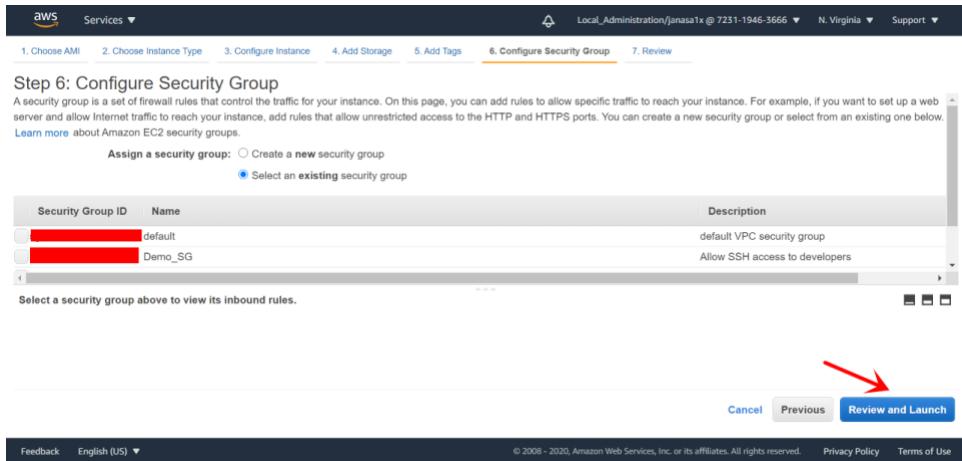
Click on “Next: Configure Security Group”.



## 5. Security Group

Choose the existing security group and click “Review and Launch”.

In case you don't have an existing security group then follow instructions in the [Create security group](#) section to create a new security group.



## 6. Launch your instance

Click “Launch”.

**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**

Intel® Distribution of OpenVINO™ Toolkit  
Intel Distribution of OpenVINO-2021.1-AmazonLinux2  
Root Device Type: ebs Virtualization type: hvm

**Hourly Software Fees:** \$0.00 per hour on c5.4xlarge instance. Additional taxes or fees may apply.  
Software charges will begin once you launch this AMI and continue until you terminate the instance.

By launching this product, you will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's

**Cancel Previous Launch**

## 7. Choose or create a new private key file

Choose an existing private key file or create a new one by selecting “create a new key pair” and click “Download Key Pair” to save it. Then click “Launch Instance”.

**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 allows you to securely SSH into your instance.

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](#).

**Choose an existing key pair**  
**Select a key pair**  
**demo-key**

acknowledge that I have access to the selected private key file (`demo-key.pem`), and that without this file, I won't be able to log into my instance.

**Cancel Previous Launch Instances**

Please note that it might take some time for the instance to be created.

**Launch Status**

**Initiating Instance Launches**

Please do not close your browser while this is loading

Initiating launches...

## 8. Click on the “instance id” to see your instance status.

Also, copy this instance-id, as this will be your password to your Jupyter Notebook.

The screenshot shows the AWS Launch Status page. At the top, it says "Your instances are now launching" with a red arrow pointing to the instance ID "i-0719207e3bde38334". Below this, there's a section about estimated charges and a link to "View launch log". Further down, there's information on how to connect to instances, a software subscription section, and a footer with links for feedback, privacy policy, and terms of use.

## 9. Click “Connect” to view instructions to SSH into the instance.

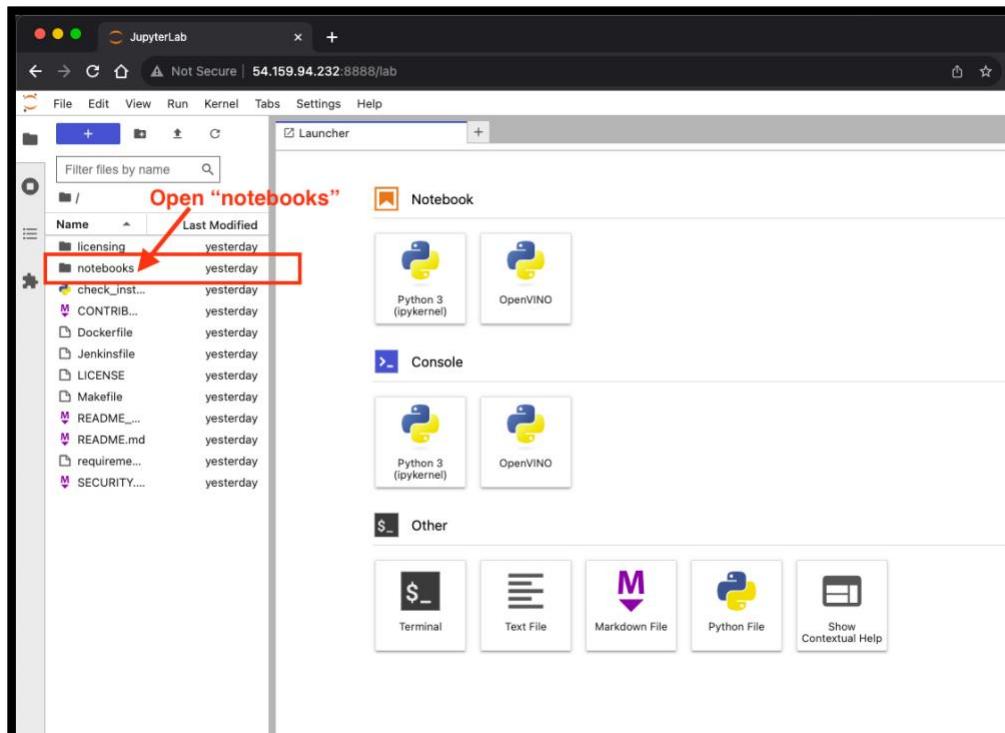
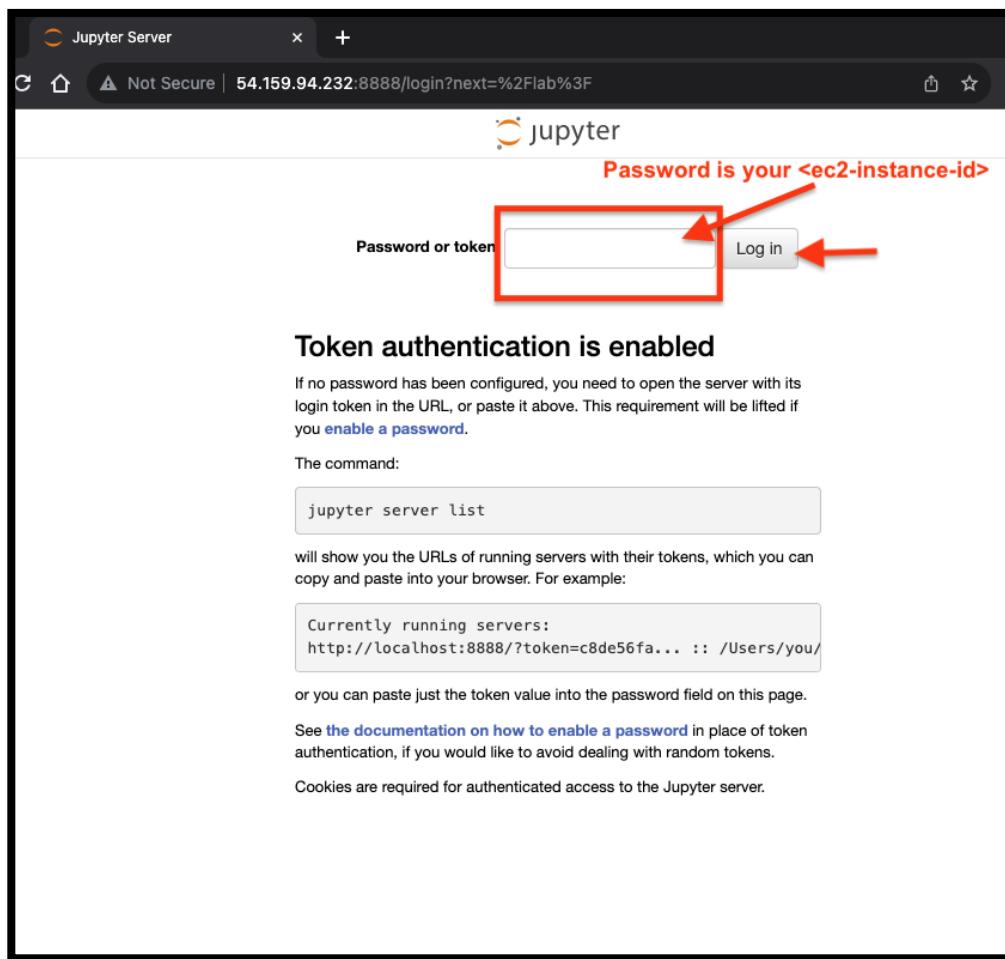
Click on the “Connect” button on top of the page to launch web CLI

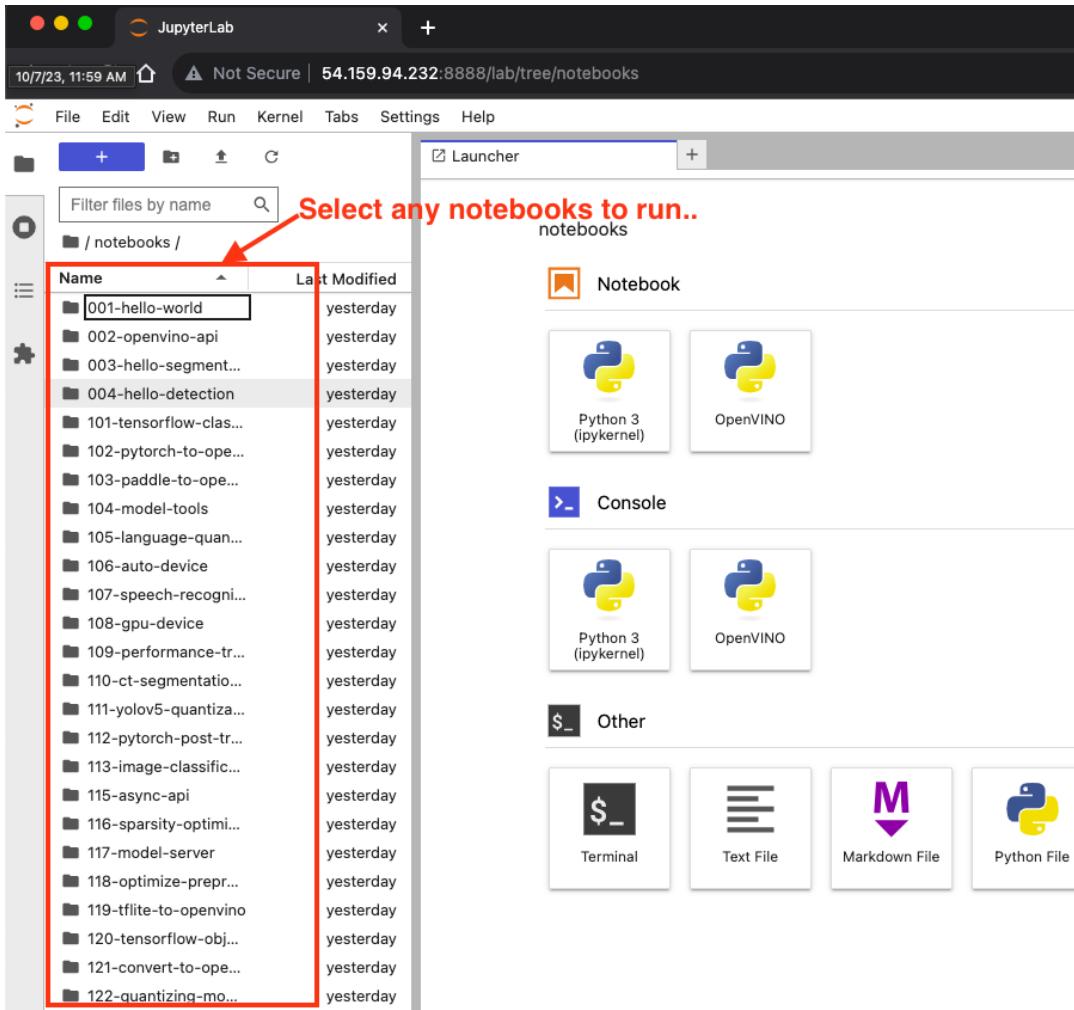
The screenshot shows the AWS EC2 Instances page. It displays one instance named "i-0719207e3bde38334" which is "Running". A red arrow points to the "Connect" button at the top of the instance card. Another red arrow points to the "open address" link under the Public IPv4 address section. The left sidebar shows navigation options like EC2 Dashboard, Events, Instances, and Images.

## 10. Connect to Jupyter Notebook.

Open a browser window and navigate to the URL given below. (NOTE: Replace text below in red.)

http://<your ec2-instance Public IP>:8888  
Password or token: <your ec2-instance id is your password>



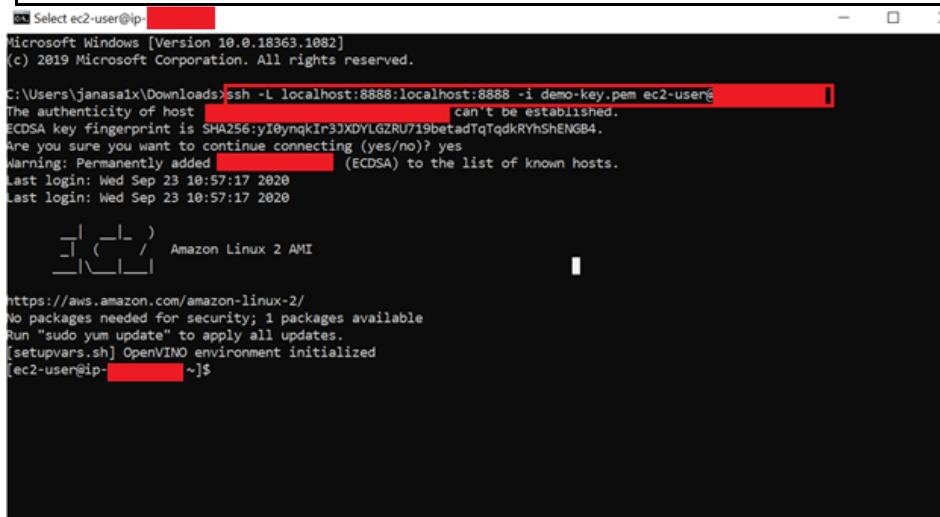


**NOTE: Stop the instance when not in use to prevent additional charges.** AWS charges you for the hours that your EC2 instance is running. To save money, you can stop your EC2 instance when you're not using it. You can also use spot instances, which are EC2 instances that are available at a discounted price. However, spot instances can be terminated at any time if AWS needs to use the resources for other customers.

## 11. [Optional] Connect to your instance via Terminal

Open a terminal then connect to your instance using SSH and Replace text below in red.

```
cd /Users/your_username/Downloads/  
  
chmod 0400 <your .pem file name>  
  
ssh -L localhost:8888:localhost:8888 -i <your .pem file name> ec2-  
user@<Your instance Public IP>  
  
# If you need to connect via proxy:  
  
ssh -o ProxyCommand='nc -x <your_proxy_address>:<your_proxy_port> <Your  
instance DNS> 22' -L localhost:8888:localhost:8888 -i <your .pem file  
name> ec2-user@<Your instance Public IP>
```



The screenshot shows a terminal window titled "Select ec2-user@ip-XXXXXX" running on Microsoft Windows. The command entered is "ssh -L localhost:8888:localhost:8888 -i demo-key.pem ec2-user@ip-XXXXXX". The output shows the host key fingerprint being displayed and a warning about adding it to the list of known hosts. It also shows the user's home directory (~) and the OpenVINO environment being initialized. The terminal window has a standard Windows title bar and a black background.

## 12. [Optional] Change the Jupyter Notebook password.

Login to instance via SSH and replace the text below in red.

```
pkkill jupyter  
  
Change password in `~/.start_jupyter.sh` and run `~/.start_jupyter.sh`  
  
OR  
  
jupyter notebook --no-browser --NotebookApp.allow_password_change=False  
--NotebookApp.token='<new password>' --ip 0.0.0.0 --port 8888 >  
/tmp/jupyter.out 2>&1 &
```

```
[ec2-user@ip-10-0-4-169 ~]$ pkill jupyter
[ec2-user@ip-10-0-4-169 ~]$ cat start_jupyter.sh
TOKEN=`curl -X PUT "http://169.254.169.254/latest/api/token" -H "X-aws-ec2-metadata-token-ttl-seconds: 21600"`
INSTANCE_ID=`curl -H "X-aws-ec2-metadata-token: $TOKEN" http://169.254.254/latest/meta-data/instance-id`

cd /home/ec2-user
source /home/ec2-user/.bashrc
#source /opt/intel/openvino_2021/bin/setupvars.sh

export PATH=/opt/intel/openvino_2021/deployment_tools/model_optimizer:/opt/intel/openvino_2021/data_processing/gstreamer/bin:/opt/intel/openvino_2021/data_processing/gstreamer/bin/gstreamer-1.0:/usr/local/bin:/usr/local/sbin:/usr/sbin:/home/ec2-user/.local/bin:/home/ec2-user/bin

export LD_LIBRARY_PATH=/opt/intel/openvino_2021/data_processing/dl_streamer/lib:/opt/intel/openvino_2021/data_processing/gstreamer/lib:/opt/intel/openvino_2021/openvnc/lib:/opt/intel/openvino_2021/deployment_tools/ngraph/lib:/opt/intel/openvino_2021/deployment_tools/inference_engine/external/hddl_unite/lib:/opt/intel/openvino_2021/deployment_tools/inference_engine/external/hddl/lib:/opt/intel/openvino_2021/deployment_tools/inference_engine/external/gna/lib:/opt/intel/openvino_2021/deployment_tools/inference_engine/external/mkltiny_lnx/lib:/opt/intel/openvino_2021/deployment_tools/inference_engine/external/tbb/lib:/opt/intel/openvino_2021/deployment_tools/inference_engine/lib/intel64
export PYTHONPATH=/opt/intel/openvino_2021/python/python3.7:/opt/intel/openvino_2021/python/python3:/opt/intel/openvino_2021/deployment_tools/open_model_zoo/tools/accuracy_checker:/opt/intel/openvino_2021/deployment_tools/model_optimizer:/opt/intel/openvino_2021/data_processing/dl_streamer/python:/opt/intel/openvino_2021/data_processing/gstreamer/lib/python3.6/site-packages:

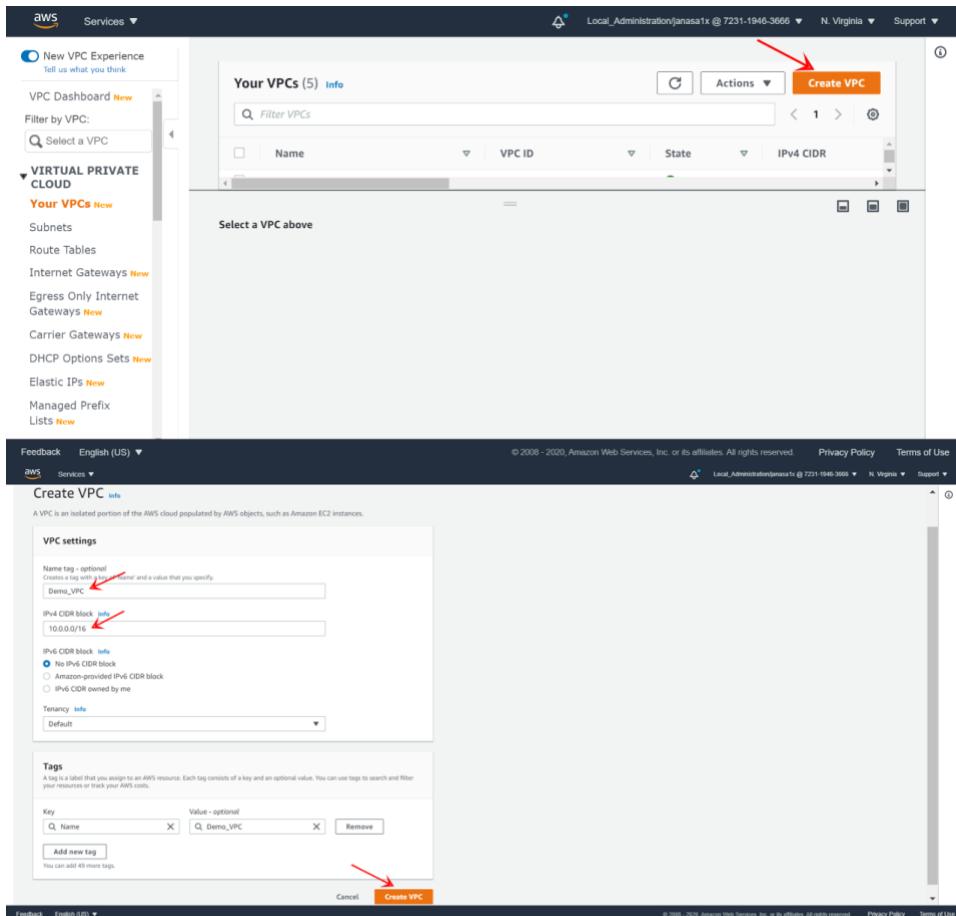
/home/ec2-user/.local/bin/jupyter notebook --no-browser --NotebookApp.allow_password_change=False --NotebookApp.token="$INSTANCE_ID" --ip 0.0.0.0 --port 8888 > /tmp/jupyter.out 2>&1 &

[ec2-user@ip-10-0-4-169 ~]$ jupyter notebook --no-browser --NotebookApp.allow_password_change=False --NotebookApp.token='openvino@123' --ip 0.0.0.0 --port 8888 > /tmp/jupyter.out 2>&1 &
[1] 4695
```

## Appendix

### Create VPC with internet access

#### 1. Navigate to VPC then click on Create VPC



Please fill in the following fields on the page and click “Create VPC”:

- **Name tag – optional** → Demo\_VPC (Example Name)
- **IPv4 CIDR block** → 10.0.0.0/16
- **IPv6 CIDR block** → No IPv6 CIDR block
- **Tenancy** → Default

## 2. Create an internet gateway with the following details.

The screenshot illustrates the AWS VPC Internet Gateways creation process. It consists of two main parts:

- Top Part:** Shows the 'Internet gateways' list. A red arrow points to the 'Create internet gateway' button at the top right of the list table.
- Bottom Part:** Shows the 'Create internet gateway' settings page. A red arrow points to the 'Create internet gateway' button at the bottom right of the form.

Please fill the following field in the page and click “Create Internet gateway”

- **Name tag → Demo\_IGW (Example Name)**

### 3. Attach the created VPC to the internet gateway.

The first screenshot shows the 'Internet gateways' page with a red box highlighting an Internet Gateway named 'Demo\_IGW'. A red arrow points from the 'Actions' menu to the 'Attach to VPC' option. The second screenshot shows the 'Attach to VPC' dialog box, also with a red arrow pointing to the 'Attach internet gateway' button.

- Click “Attach to a VPC”.
- Choose the VPC (Demo\_VPC) that we created and click “Attach Internet Gateway”.

### 4. Create Public Subnet.

A red arrow points to the 'Create subnet' button in the top navigation bar. Another red arrow points to the 'Subnets' link in the left-hand navigation menu under 'Virtual Private Cloud'.

Create subnet

Specify your subnet's IP address block in CIDR format; for example, 10.0.0.0/24. IPv4 block sizes must be between a /16 netmask and /28 netmask, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

VPC CIDRs	CIDR	Status	Status Reason
	10.0.0.0/16	associated	

IPv4 CIDR block\*   ⓘ

⚠ CIDR Address overlaps with existing Subnet CIDR: 10.0.4.0/24

\* Required

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Please fill the following field in the page & click “Create”:

- **Name tag** → Public\_Demo\_Subnet (Example Name)
- **VPC\*** → Choose the VPC (Demo\_VPC) that we created
- **Availability Zone** → us-east-1a (Choose your respective region)
- **IPv4 CIDR block\*** → 10.0.4.0/24

## 5. Create “Route Table”.

New VPC Experience Tell us what you think

VPC Dashboard [New](#)

Filter by VPC:

**VIRTUAL PRIVATE CLOUD**

Your VPCs [New](#)

Subnets [Route Tables](#) New

Internet Gateways [New](#)

Egress Only Internet Gateways [New](#)

Carrier Gateways [New](#)

DHCP Options Sets [New](#)

Elastic IPs [New](#)

Managed Prefix Lists [New](#)

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Route Tables > Create route table

Create route table

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Key	(128 characters maximum)	Value	(256 characters maximum)
This resource currently has no tags			

Add Tag 50 remaining (Up to 50 tags maximum)

\* Required

Cancel Create

Please fill the following field in the page & click “Create”:

- **Name tag** → Public\_Demo\_RT (Example Name)

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- **VPC\*** → Choose the VPC (Demo\_VPC) that we created

## 6. Attach the created internet gateway in the “route table”.

The screenshot shows the AWS VPC Dashboard. On the left sidebar, under 'Route Tables', the 'Public\_Demo\_RT' route table is selected. A red arrow points to the 'Edit routes' button at the bottom of the table's detail view. The top navigation bar includes 'Create route table' and 'Actions'.

Click “Edit routes” and add a route with the following details & click “Save routes”

- **Destination** → 0.0.0.0/0 (Any)
- **Target** → Choose your Internet Gateway(Demo\_IGW)

The screenshot shows the 'Edit routes' dialog box. It lists two routes: one for 10.0.0.0/16 with a target of 'local' and an active status, and another for 0.0.0.0 with a target set to a placeholder. At the bottom right, there are 'Cancel' and 'Save routes' buttons, with a red arrow pointing to the 'Save routes' button.

## 7. Attach the created public subnet in the “route table”.

Click “Edit subnet associations” and choose the following details and click “Save”.

New VPC Experience  
Tell us what you think

VPC Dashboard New  
Filter by VPC:  
Select a VPC

**VIRTUAL PRIVATE CLOUD**  
Your VPCs New  
Subnets  
**Route Tables**  
Internet Gateways New  
Egress Only Internet Gateways New

Create route table Actions ?

Route Table: **Public\_Demo\_RT**

Summary Routes Subnet Associations Edge Associations Route Propagation

Edit subnet associations

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**Subnet ID → Choose the created Public Subnet(Public\_Demo\_Subnet)**

Route Tables > Edit subnet associations

Edit subnet associations

Route table **Public\_Demo\_RT**

Associated subnets

Required

Cancel Save

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## 8. Create Network ACL.

Please fill the following field in the page and click “Create”

New VPC Experience  
Tell us what you think

Lists New  
Endpoints  
Endpoint Services  
NAT Gateways New  
Peering Connections  
**SECURITY**  
**Network ACLs**  
Security Groups New

**VIRTUAL PRIVATE NETWORK (VPN)**  
Customer Gateways  
Virtual Private Gateways  
Site-to-Site VPN Connections  
Client VPN Endpoints

Create network ACL Actions ?

Name Network ACL ID Associated with Default VPC Owner

BU-UUUC310Z4CC1... BUSINESS TES vpc-427a180e00000000 Local\_Administration/janasa1x @ 7231-1946-3666 N. Virginia Support

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A network ACL is an optional layer of security that acts as a firewall for controlling traffic in and out of a subnet.

Name tag: Demo\_NACL

VPC\*: [Redacted]

\* Required

Create

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- **Name tag** → Demo\_NACL (Example Name)
- **VPC\*** → Choose the VPC (Demo\_VPC) that we created

## 9. Click Edit inbound rules and add the following rules.

Rule #	Type	Protocol	Port Range	Source	Allow / Deny
*	ALL Traffic	ALL	ALL	0.0.0.0/0	DENY

Edit inbound rules

Rule #	Type	Protocol	Port Range	Source	Allow / Deny
1	SSH (22)	TCP (6)	22	[Redacted]	ALLOW
2	Custom TCP Rule	TCP (6)	8888	[Redacted]	ALLOW

Add Rule

\* Required

Cancel Save

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## Inbound rules

Type	Port	Source	Allow/Deny
SSH	22	Your System IP	Allow
Custom TCP Rule	8888	Your System IP	Allow

# Create a Security Group

The screenshot shows the 'Configure Security Group' step in the AWS EC2 wizard. It displays two security group rules:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	My IP	e.g. SSH for Admin Desktop
Custom TCP F	TCP	8888	My IP	e.g. SSH for Admin Desktop

Below the table is a 'Review and Launch' button, which has a red arrow pointing to it.

- For Source, we recommend “MY IP”, you could choose “anywhere” also.
- The security group needs two open ports, “22” for SSH login, “8888” for Jupyter access

## Summary:

- This document provided you with step-by-step instructions on how to create an EC2 instance using the Intel® Distribution of OpenVINO™ toolkit AMI. It is important to note that Amazon Web Services (AWS) charges you based on the number of hours your server is running. Therefore, it is recommended to stop the server when it is not in use to save on your costs.

## Additional Resources:

- [OpenVINO Developer Guide and Documentation](#)
- [OpenVINO Open Model Zoo](#)



### Notices and Disclaimers

#### [FTC Optimization Notice](#)

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