

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® Movidius™ VPUs, 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® Movidius™ VPUs, and FPGAs.

AMI comes pre-equipped with the Intel® Distribution of OpenVINO™ toolkit development and deployment components, such as the Model Optimizer and the Inference Engine.

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

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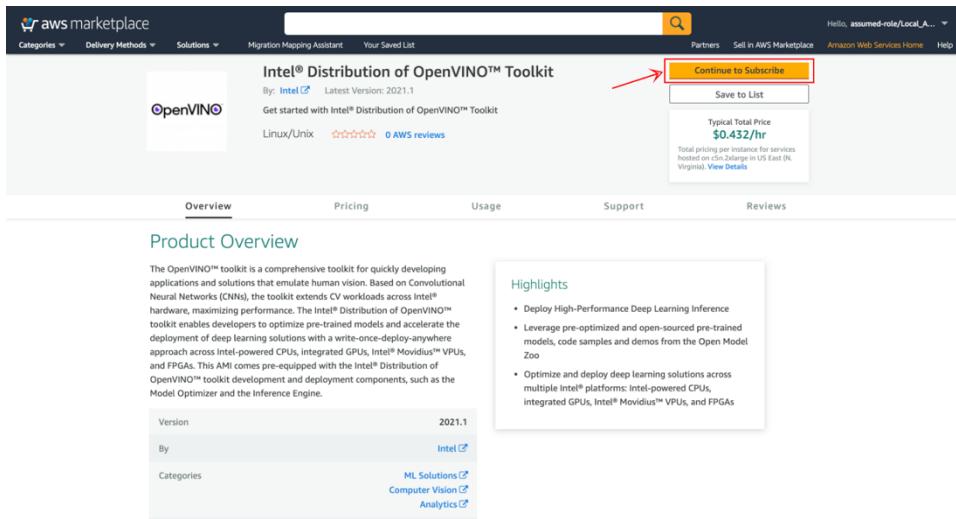
Search for AMI and Subscribe

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

- **Option 1:** Navigate to AMI webpage directly by using this link.
<https://aws.amazon.com/marketplace/pp/B08L6ZHYKH/>
- **Option 2:** Navigate to 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”



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, 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 border 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.

Product	Effective date	Expiration date	Action
Intel® Distribution of OpenVINO™ Toolkit	10/22/2020	N/A	Show Details

3. Click on “Continue to Launch”

This screenshot continues from the previous one, showing the 'Configure' step. The left side of the screen contains configuration options: 'Delivery Method' (set to '64-bit (x86) Amazon Machine Image (AMI)'), 'Software Version' (set to '2021.1 (Oct 13, 2020)'), and 'Region' (set to 'US East (N. Virginia)'). Below these, there's a note about local zones and a link to release notes. On the right side, there's a 'Pricing information' panel with a note about estimated costs. It shows 'Software Pricing' for 'Intel® Distribution of OpenVINO™ Toolkit' running on 'c5n.2xlarge' at '\$0/hr' and 'Infrastructure Pricing' for 'EC2' at '1 * c5n.2xlarge' with a monthly estimate of '\$311.00/month'.

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

- [**Launch from Website**](#)
- [**Launch Through EC2**](#)

The screenshot shows the AWS Marketplace product page 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 title is "Intel® Distribution of OpenVINO™ Toolkit". Below the title, there are buttons for Product Detail, Subscribe, Configure, and Launch. A red arrow points from the text "Choose Action" to a dropdown menu where "Launch from Website" is selected. Another red arrow points from the "Choose Action" text to the "Choose this action to launch from this website" instruction.

Categories ▾ Delivery Methods ▾ Solutions ▾ Migration Mapping Assistant Your Saved List

Hello, assumed-role/Local_A... ▾

Partners Sell in AWS Marketplace Amazon Web Services Home Help

OpenVINO Intel® Distribution of OpenVINO™ Toolkit

< Product Detail Subscribe Configure **Launch**

Launch this software

Review your configuration and choose how you wish to launch the software.

Configuration Details

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

Software Version: 2021.1

Region: US East (N. Virginia)

Usage Instructions

Choose Action

Launch from Website

Choose this action to launch from this website

EC2 Instance Type

c5n.2xlarge Memory: 21 GiB CPU: 8 virtual cores

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. Below it, the 'EC2 Instance Type' dropdown is set to 'c5n.2xlarge'. A red arrow points to this dropdown. To its right, detailed instance specifications are listed: Memory: 21 GiB, CPU: 8 virtual cores, Storage: EBS Only, and Network Performance: Up to 25 Gigabit Ethernet.

2. Select your VPC Settings

The screenshot shows the continuation of the AWS Marketplace setup. The 'EC2 Instance Type' dropdown remains at 'c5n.2xlarge'. A new section labeled 'VPC Settings' appears, containing a dropdown menu with a red box over it, indicating a step to select or create a VPC. A red arrow points to this dropdown. Below it is a link 'Create a VPC in EC2'.

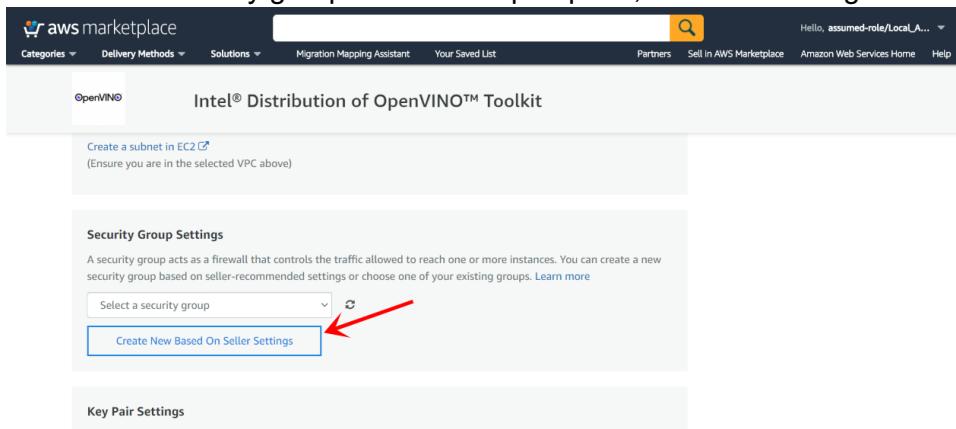
3. Select your Subnet Settings

The screenshot continues the setup process. The 'VPC Settings' section is still visible. Below it, a 'Subnet Settings' section appears, also with a dropdown menu containing a red box, and a red arrow pointing to it. To its right, the IPv4 CIDR block is listed as '10.0.0.0/24'. Below this is a note: '(Ensure you are in the selected VPC above)'. Further down, a 'Security Group Settings' section is shown with a dropdown menu containing 'launch-wizard-3'.

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

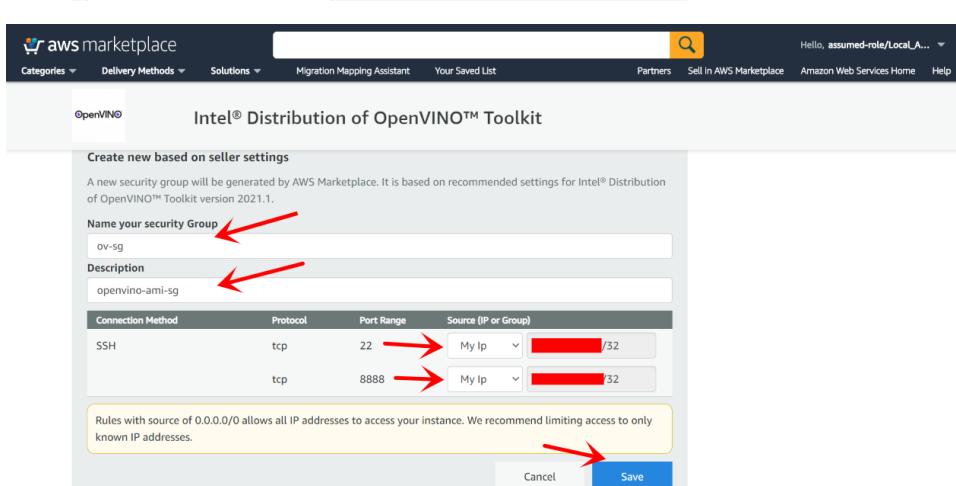
- Enter “Name” and “Description” for the security group.
- For Source (IP or Group), we recommend “MY IP”, you could choose “anywhere” also.
- The security group needs two open ports, “22” for SSH login and “8888” for Jupyter access.



Security Group Settings

A security group acts as a firewall that controls the traffic allowed to reach one or more instances. You can create a new security group based on seller-recommended settings or choose one of your existing groups. [Learn more](#)

Select a security group



Name your security group
ov-sg

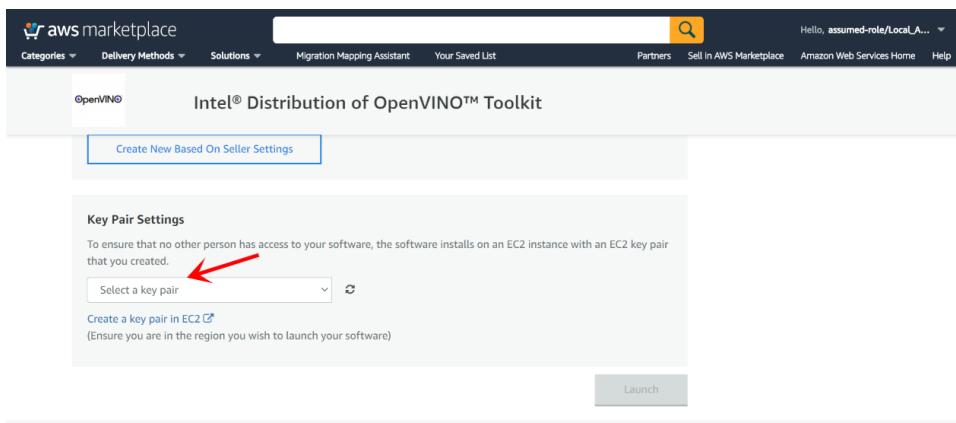
Description
openvino-ami-sg

Connection Method	Protocol	Port Range	Source (IP or Group)
SSH	tcp	22	My Ip /32
	tcp	8888	My Ip /32

Rules with source of 0.0.0.0/0 allows all IP addresses to access your instance. We recommend limiting access to only known IP addresses.

Cancel

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



Key Pair Settings

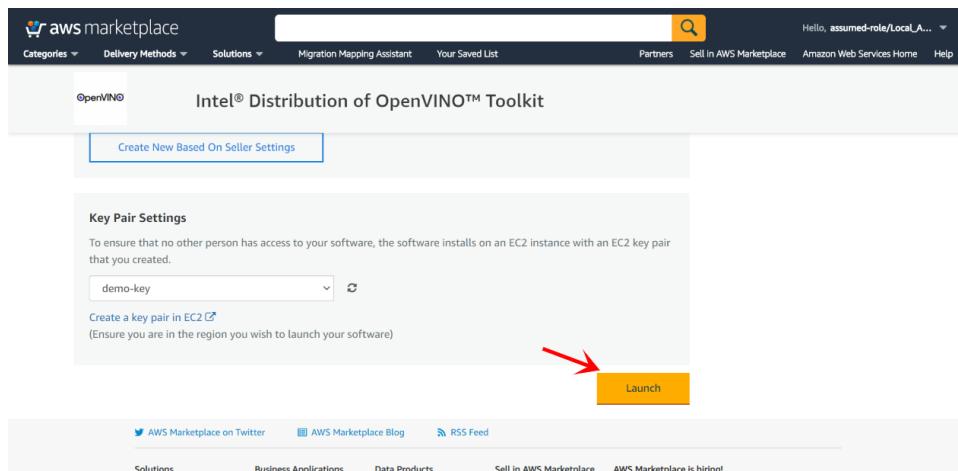
To ensure that no other person has access to your software, the software installs on an EC2 instance with an EC2 key pair that you created.

Select a key pair

Create a key pair in EC2 (Ensure you are in the region you wish to launch your software)

Launch

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



AMI Launch option 2: “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 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, the product title 'Intel® Distribution of OpenVINO™ Toolkit' is displayed. Under 'Fulfillment Option', it says '64-bit (x86) Amazon Machine Image (AMI) Intel® Distribution of OpenVINO™ Toolkit running on c5n.2xlarge'. Under 'Software Version', it shows '2021.1'. Under 'Region', it shows 'US East (N. Virginia)'. A blue button labeled 'Usage Instructions' is visible. In the center, there's a 'Choose Action' dropdown set to 'Launch through EC2' with a descriptive note below it: 'Choose this action to launch your configuration through the Amazon EC2 console.' A large yellow 'Launch' button is at the bottom right. Red arrows highlight the 'Choose Action' dropdown and the '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 'Choose Instance Type' step of the AWS EC2 instance creation wizard. The top navigation bar includes 'Local Administration/janasa1x @ 7231-1946-3666', 'N. Virginia', and 'Support'. Below the navigation, a sub-navigation bar lists steps: 1. Choose AMI, 2. Choose Instance Type (which is active), 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review. The main content area is titled 'Step 2: Choose an Instance Type' with a sub-instruction: '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.' A filter bar at the top allows filtering by 'Family' (set to 'c5'), 'Type' (set to 'Current generation'), and 'Show/Hide Columns'. A table lists available instance types. The 'c5.4xlarge' row is highlighted with a red arrow. 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' (which is highlighted in blue), and 'Next: Configure Instance Details' buttons. Red arrows point to the 'c5.4xlarge' row and the 'Review and Launch' button.

2. Configure Instance

The compute instance selected in 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 default VPC with Public IP, follow instructions [Create VPC with internet access](#) section to create one

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: 1 [Launch into Auto Scaling Group](#)

Purchasing option: Request Spot instances

Network: [Create new VPC](#)
No default VPC found. [Create a new default VPC](#)

Subnet: [Create new subnet](#)
249 IP Addresses available

Auto-assign Public IP: [Enable](#)

Placement group: Add instance to placement group

Capacity Reservation: [Open](#)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

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3. Add storage

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

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/xvda	snapshot-snap-01b208bd4d49318b0	30	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.

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Tags](#)

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4. Add tags

Click on “Next: Configure Security Group”

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
This resource currently has no tags					
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) Cancel Previous Review and Launch Next: Configure Security Group					

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5. Security Group

Choose 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 new 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.

Security Group ID	Name	Description
[REDACTED]	default	default VPC security group
[REDACTED]	Demo_SG	Allow SSH access to developers

Select a security group above to view its inbound rules.

Assign a security group: Create a new security group Select an existing security group Cancel Previous Review and Launch

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6. Launch your instance

Click Launch on the Review page.

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

OpenVINO 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 file 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 Launch Instances

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

Initiating Instance Launches

Please do not close your browser while this is loading

Initiating launches...

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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, a green banner says "Your instances are now launching" with a red arrow pointing to the instance ID "i-0719207e3bde38334". Below the banner, there's a section about estimated charges and instructions on how to connect to instances. A blue bar at the bottom provides links for Intel Distribution of OpenVINO Toolkit and software subscription management. The footer includes standard AWS links like Feedback, English (US), 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. On the left, a sidebar lists various EC2-related options like EC2 Dashboard, Events, Tags, Instances, and Images. The main area shows a table with one instance listed. A red arrow points to the "Connect" button in the top navigation bar. Another red arrow points to the "open address" link under the Public IPv4 address for the instance. The footer is identical to the previous screenshot.

10. 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>
```

```
Microsoft Windows [Version 10.0.18363.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\janasax\Downloads>ssh -L localhost:8888:localhost:8888 -i demo-key.pem ec2-user@<Your instance Public IP>
The authenticity of host [REDACTED] can't be established.
ECDSA key fingerprint is SHA256:yI0ynqkIr3JXDYLGZRU719betadTqTqdkRYhShENGb4.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added [REDACTED] (ECDSA) to the list of known hosts.
Last login: Wed Sep 23 10:57:17 2020
Last login: Wed Sep 23 10:57:17 2020

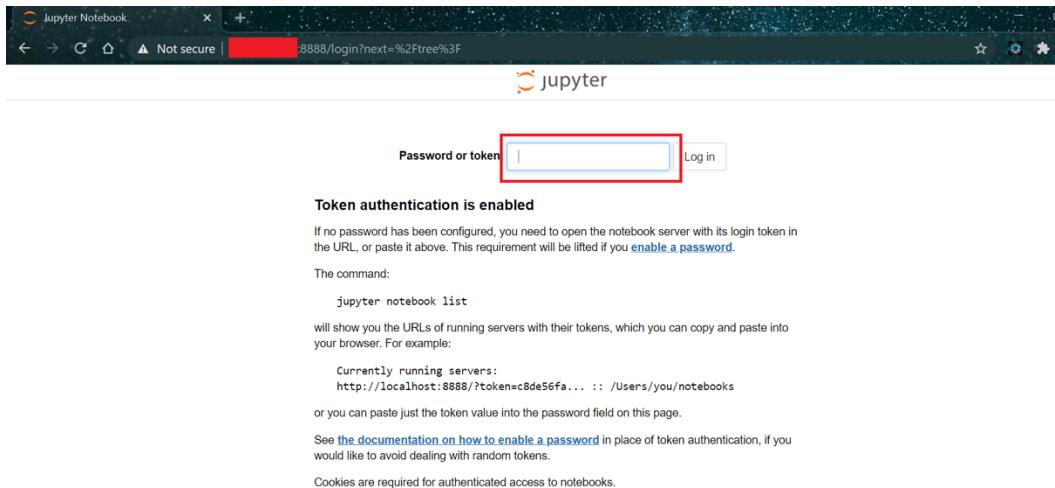
[REDACTED]
Amazon Linux 2 AMI

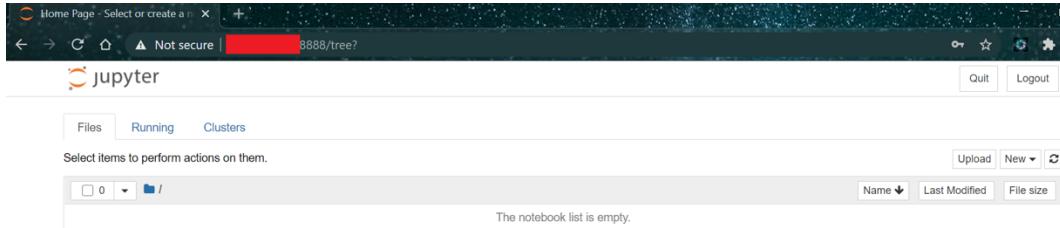
https://aws.amazon.com/amazon-linux-2/
No packages needed for security; 1 packages available
Run "sudo yum update" to apply all updates.
[setupvars.sh] OpenVINO environment initialized
[ec2-user@ip-10-0-4-74 ~]$
```

11. Connect to Jupyter Notebook.

Open a browser window and navigate to the URL given below and replace text below in red.)

```
http://<your instance Public IP>:8888
Password or token: <your EC2 instance-id>
```





12. Change Jupyter Notebook password.

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

```
pkill 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://169.254.169.254/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/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/opencv/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
```

Tips: Stop the instance when not in use to prevent additional charges.

Create VPC with internet access

1. Navigate to VPC then click on Create VPC

The screenshot shows the 'Create VPC' wizard in the AWS Management Console. The top navigation bar includes 'Your VPCs (5) Info', 'Actions ▾', and a 'Create VPC' button. Below the navigation is a search bar with 'Filter VPCs'. The main content area has two tabs: 'VPC settings' (selected) and 'Tags'.
VPC settings:

- Name tag - optional:** A text input field containing 'My_Demo'.
- IPv4 CIDR block:** A text input field containing '10.0.0.0/16'.
- IPv6 CIDR block:** Radio button options: 'No IPv6 CIDR block' (selected), 'Amazon-provided IPv6 CIDR block', and 'IPv6 CIDR owned by me'.
- Tenancy:** A dropdown menu set to 'Default'.

Tags:

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
Q Name	Q My_Demo X Remove

Add new tag

You can add 49 more tags.

At the bottom right are 'Cancel' and 'Create VPC' buttons.

Please fill in the following fields in 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

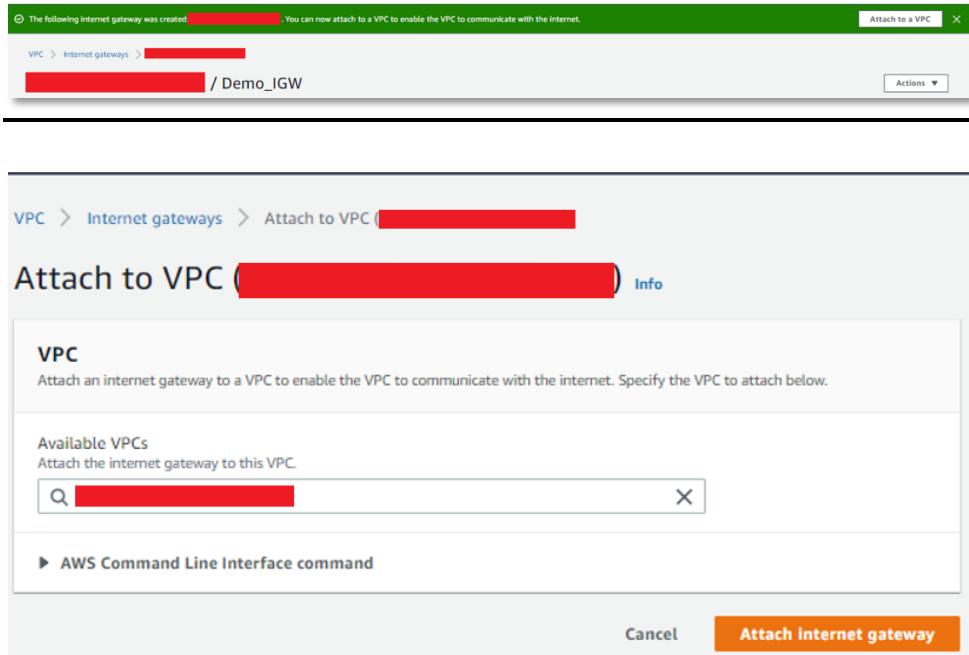
2. Create an internet gateway with the following details.

The screenshot shows the AWS VPC Internet Gateways creation interface. At the top, there's a navigation bar with 'Internet gateways (3) Info' and a search bar labeled 'Filter internet gateways'. Below the navigation is a breadcrumb trail: 'VPC > Internet gateways > Create internet gateway'. The main title is 'Create internet gateway' with an 'Info' link. A descriptive text explains that an internet gateway connects a VPC to the internet and asks to specify a name. The first section is 'Internet gateway settings' containing a 'Name tag' field with placeholder text 'Creates a tag with a key of 'Name' and a value that you specify.' and a text input box containing 'Demo_IGW'. The second section is 'Tags - optional', which includes a table for adding tags with columns 'Key' and 'Value - optional'. A single tag 'Name: Demo_IGW' is listed. Below the table is a note: 'You can add 49 more tags.' At the bottom right are 'Cancel' and 'Create Internet gateway' buttons.

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 internet gateway



- Click "Attach to a VPC"
- Choose the VPC (Demo_VPC) that we created and click "Attach Internet Gateway"

4. Create Public Subnet

The screenshot shows the 'Create subnet' form. The title is 'Subnets > Create subnet'. It has a 'Create subnet' header and instructions: '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.' The form fields include:

- Name tag: Public_Demo_Subnet
- VPC*: [REDACTED]
- Availability Zone: No preference
- VPC CIDRs: CIDR 10.0.0.0/16 Status associated
- IPv4 CIDR block*: 10.0.4.0/24

At the bottom are 'Required' and 'Create' buttons.

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

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.

Name tag	Public_Demo_RT	<small>i</small>
VPC*	Demo_VPC	<small>C i</small>
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)
- **VPC*** → Choose the VPC (Demo_VPC) that we created

6. Attach the created internet gateway in the route table

Route Table: rtb-0801cd61eaa0a8502

Summary	Routes	Subnet Associations	Edge Associations	Route Propagation	Tags
	<small>Edit routes</small>				
	<small>View All routes</small>				
Destination	Target	Status	Propagated		
10.0.0.0/16	local	active	No		

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

- **Destination** → 0.0.0.0/0 (Any)
- **Target** → Choose your Internet Gateway(Demo_IGW)

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0/0	igw-0059fba23969ff2e9	No	<small>x</small>

Add route

* Required Cancel Save routes

7. Attach the created public subnet in the route table

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

Subnet ID → Choose the created Public Subnet(Public_Demo_Subnet)

8. Create Network ACL

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

- **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.

Network ACLs > Edit Inbound rules

Edit inbound rules

Network ACL aci-0464d27fe71d5c00

Rule #	Type	Protocol	Port Range	Source	Allow / Deny
1	SSH (22)	TCP (6)	22	10.10.10.10/32	ALLOW
2	Custom TCP Rule	TCP (6)	8888	10.10.10.10/32	ALLOW

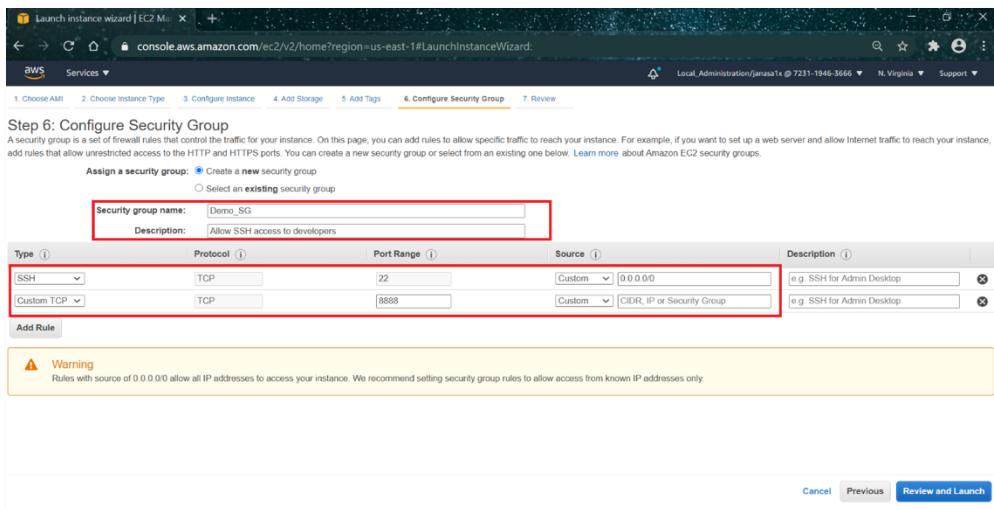
[Add Rule](#)

* Required [Cancel](#) [Save](#)

Inbound rules

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

Create Security Group



Please fill the following fields in the page & click “Review and Launch”

- **Security group name** → Demo_SG (Example Name)
- **Description** → Allow SSH access to developers (Example Description)
- **Inbound rules**

Type	Port	Source
SSH	22	Custom (Your System IP)
Custom TCP	8888	Custom (Your System IP)

Summary:

Thus, we saw in detail how to create an EC2 instance using Intel® Distribution of OpenVINO™ toolkit AMI in this tutorial. Please note that AWS charges you for the hours server is running, so 'Stop' it when it's unused to save on your costs.



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