




AWS Cloud Demo



The background is a digital art scene featuring a low-poly, crystalline landscape. The floor is a grid of lines that recedes into the distance, illuminated by a bright, glowing light source on the horizon. The sky is a deep purple and blue, with a large, glowing pink and blue arc resembling a sunset or sunrise. The overall aesthetic is futuristic and high-tech.

The first step will be to go to the AWS homepage and set up an account. Homepage is [Cloud Computing Services - Amazon Web Services \(AWS\)](https://aws.amazon.com) (<https://aws.amazon.com>)

- EC2 Dashboard ×
- EC2 Global View
- Events
- Console-to-Code [Preview](#)
- ▼ Instances
- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations
- ▼ Images
- AMIs

Resources

EC2 Global view 



You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:


Instances (running) 0	Auto Scaling Groups 0	Dedicated Hosts 0
Elastic IPs 0	Instances 0	Key pairs 1
Load balancers 0	Placement groups 0	Security groups 2
Snapshots 0	Volumes 0	


Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance ▾

Service health

AWS Health Dashboard 



Region

US East (N. Virginia)

Go to "Launch Instance"

Name

e.g. My Web Server

[Add additional tags](#)

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

 *Search our full catalog including 1000s of application and OS images*

Quick Start

Amazon
Linux



macOS



Ubuntu

ubuntu

Windows



Red Hat



SUSE Linux



[Browse more AMIs](#)

Including AMIs from
AWS, Marketplace and
the Community

Should bring up
this page.

Name

Ubuntu Demo Cloud

[Add additional tags](#)

I named my instance, "Ubuntu Demo Cloud."

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

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[Browse more AMIs](#)

Including AMIs from
AWS, Marketplace and
the Community

Then I selected the type of cloud I want to create, in this case Ubuntu.

Services [Alt+S] N. Virginia ▼

Quickstart AMIs (8)
Commonly used AMIs

My AMIs (0)
Created by me

AWS Marketplace AMIs (2732)
AWS & trusted third-party AMIs

Community AMIs (500)
Published by anyone

results

Clear all filters

☐ Free tier only [Info](#)

▼ OS category

☐ All

Linux/Unix

☐ All Windows

▼ Architecture

ubuntu

Ubuntu

Free tier eligible

Verified provider

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

ami-04a81a99f5ec58529 (64-bit (x86)) / ami-0c14ff330901e49ff (64-bit (Arm))

Select

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

☒ 64-bit (x86)
☐ 64-bit (Arm)

Platform: ubuntu Root device type: ebs Virtualization: hvm

ENA enabled: Yes

ubuntu

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

ami-0a0e5d9c7acc336f1 (64-bit (x86)) / ami-070f589e4b4a3fece (64-bit (Arm))

Select

We can also type in Ubuntu in the search bar and it gets you to the same place.

This method, however, has the added benefit of showing all of the AMI (Amazon Machine Image) options available to you.

For instance, this first one (Ubuntu Server 24.04 LTS) is a Quickstart AMI that is a free option.

“Free Tier Eligible” means we’re not going to pay a lot for this Ubuntu server. It’s 750 hours free and then a few cents if we leave it up and running after that. It also says “Verified provider” which means this is an authenticate Ubuntu product.

This is an Ubuntu Server being created in the cloud—not a desktop. Also notice it says “LTS” which stands for Long Term Support. It also notes that it is an SSD (Solid State Drive)

You will then see the radial buttons: 64-bit (x86) and 64-bit (ARM). 64-bit (x86) CPUs are optimized for performance, while 64-bit (ARM) CPUs are optimized for power and space efficiency. We will select the 64-bit (x86).

Q Ubuntu

X

▼

Quickstart AMIs (8)
Commonly used AMIs

My AMIs (0)
Created by me

AWS Marketplace AMIs (2732)
AWS & trusted third-party AMIs

Community AMIs (500)
Published by anyone

results

Clear all filters

☐ Free tier only

Info

▼ OS category

☐ All

Linux/Unix

☐ All Windows

▼ Architecture

ubuntu

Free tier eligible

Verified provider

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

ami-04a81a99f5ec58529 (64-bit (x86)) / ami-0c14ff330901e49ff (64-bit (Arm))

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

Platform: ubuntu Root device type: ebs Virtualization: hvm ENA enabled: Yes

Select

☒ 64-bit (x86)

☐ 64-bit (Arm)

ubuntu

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

ami-0a0e5d9c7acc336f1 (64-bit (x86)) / ami-070f589e4b4a3fece (64-bit (Arm))

Select

CatalogPublishedArchitectureVirtualizationRoot device typeENA Enabled

Q

Get advice on instance type selection...

t2.nano

Family: t2 1 vCPU 0.5 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0058 USD per Hour

On-Demand SUSE base pricing: 0.0058 USD per Hour

On-Demand Windows base pricing: 0.0081 USD per Hour

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

Free tier eligible

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

Free tier eligible

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ 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

▼ Summary

Number of instances Info

1

Software Image (AMI)

Ubuntu Server 24.04 LTS (HVM),...read more

ami-04a81a99f5ec58529

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 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, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Now we are going to set up the hardware types for our cloud server. When I construct an Ubuntu VM, I can modify how much memory to dedicate to the server and also vary how many drives I want my VM to have.


This is the same kind of thing for my AMI. You can also see the cost per hour with these various options. Linux base pricing is 0.0116 USD per hour. Pretty cheap if you want to learn how to run AWS Cloud servers. I strongly recommend this if you're learning AWS!

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

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory  Current generation: true

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

[Additional costs apply for AMIs with pre-installed software](#)

▼ Key pair (login) [Info](#)

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

Key pair name - *required*

Select

This provides the “Hardware Type” that t2.micro is going to provide us: We get 1 CPU and 1 GiB of Memory.

Again, this is great option if you want to play around with AWS cloud and really learn it. Remember that you DO NOT have to be actively on the AWS website for it to charge you after your 750 free hours. The instance just has to be created and “Running.” But again, you have a lot of free time to play on AWS before it starts charging you for a free tier instance.

Image ID
ami-04a81a99f5ec58529

Q |

On-Demand Linux base pricing: 5.1752 USD per Hour
On-Demand RHEL base pricing: 3.6936 USD per Hour

r7i.8xlarge
Family: r7i 32 vCPU 256 GiB Memory Current generation: true
On-Demand RHEL base pricing: 2.4624 USD per Hour
On-Demand SUSE base pricing: 2.2418 USD per Hour
On-Demand Linux base pricing: 2.1168 USD per Hour
On-Demand Windows base pricing: 3.5888 USD per Hour

r7i.metal-24xl
Family: r7i 96 vCPU 768 GiB Memory Current generation: true
On-Demand SUSE base pricing: 6.4754 USD per Hour
On-Demand Linux base pricing: 6.3504 USD per Hour
On-Demand RHEL base pricing: 7.3872 USD per Hour
On-Demand Windows base pricing: 10.7664 USD per Hour

t2.micro Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.026 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour

device type ENA Enabled
Yes

☐ All generations

[Compare instance types](#)

Additional costs apply for AMIs with pre-installed software

r7i.metal-24xl

Family: r7i 96 vCPU 768 GiB Memory ← Current generation: true
On-Demand SUSE base pricing: 6.4754 USD per Hour
On-Demand Linux base pricing: 6.3504 USD per Hour
On-Demand RHEL base pricing: 7.3872 USD per Hour
On-Demand Windows base pricing: 10.7664 USD per Hour

When we open up the triangle button we can scroll down and see all the various options. You can see this version, r7i, gives you 96 CPUs and 768 GiB of Memory. We can tailor Cloud servers to match Organizational objectives/needs.

Of course the pricing goes up to 6.3504 USD per hour.

Instance type

g5.48xlarge

Family: g5 192 vCPU 768 GiB Memory ← Current generation: true

On-Demand RHEL base pricing: 18.1312 USD per Hour

On-Demand SUSE base pricing: 16.413 USD per Hour

On-Demand Windows base pricing: 25.12 USD per Hour

On-Demand Linux base pricing: 16.288 USD per Hour

Just as an example of how large these bad boys can go, we have the g5.48xlarge:

192 CPUs

768 GiB Memory

The pricing goes up to 16.288 USD per hour. But if your organization has the need and the capital, then this is the way you have to go.

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

Additional costs apply for AMIs with pre-installed software

▼ Key pair (login) Info

Q |

Proceed without a key pair (Not recommended)

Default value

UbuntuTemp

Type: rsa

Select

↻ Create new key pair

Now that we have selected our Instance type of t2.micro, we need to create a Key Pair so that we can ssh into our Ubuntu Server later.

I have already created a Key Pair, "UbuntuTemp" previously. I set this up by clicking on the "Create a new key pair," selecting the encryption type (RSA in this case), and the .pem file which is used with OpenSSH (rather than a .ppk file, which is only used with an older application called PuTTY). I recommend the pem and RSA combo.

ron@goldenstate: ~ Windows PowerShell

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

PS C:\Users\Ron> cd downloads

PS C:\Users\Ron\downloads> dir *pem

Directory: C:\Users\Ron\downloads

Mode	LastWriteTime	Length	Name
-a----	4/15/2024 9:32 AM	1674	ron.pem
-a----	4/15/2024 1:31 PM	1678	ron2.pem
-a----	4/29/2024 9:46 AM	1678	UbuntuTemp.pem

Open up a command prompt.

Once I change directory into "Downloads" and search with a wildcard for any .pem files you can see my previous .pem files/key pairs that I have created with AWS.

The ron.pem and ron2.pem I deleted, so I went with my UbuntuTemp.pem key pair when I set up my new t2.micro Ubuntu Server.



Key pair name - *required*

UbuntuTemp



Create new key pair

▼ Network settings [Info](#)

Edit

Network [Info](#)

vpc-01210bc332270c89b

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

We'll create a new security group called 'launch-wizard-2' with the following rules:

☒ Allow SSH traffic from
Helps you connect to your instance

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

Anywhere 0.0.0.0/0	✓
Custom	
My IP 172.59.228.9/32	
Anywhere 0.0.0.0/0	▲

Now that we have our key pair, UbuntuTemp.pem, the network settings automatically sets up a default vpc for us (ends in c89b).

I selected "Create security group" under the firewall radial options. Under that we can change our security group configurations:

Right now I have it set so that I can allow SSH traffic from anywhere (any cidr can access this server). I can change this to restricting access to this server to only my public IP address.

Note that we could also allow traffic from HTTPS, HTTP, or both from the internet.

Network [Info](#)

vpc-01210bc332270c89b

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](#)

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☒ Create security group

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We'll create a new security group called **'launch-wizard-2'** with the following rules:

☒ Allow SSH traffic from
Helps you connect to your instance

My IP
172.59.228.9/32

☒ 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.

▼ **Configure storage** [Info](#)

Advanced


I wanted to make this server a bit more secure so I selected only traffic from My IP. However, even if I left the server open for anyone, they would still need my security credentials that I set up previously.

I also selected "Allow HTTPS traffic from the internet." HTTPS uses encryption to secure data sent between a browser and a web server. HTTPS uses the Transport Layer Security (TLS) protocol. TLS uses an asymmetric public key infrastructure to encrypt communications, making data undecipherable until the site owner unlocks it.

▼ Configure storage [Info](#)

Advanced


1x GiB ▼ Root volume (Not encrypted)

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



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

 Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.



0 x File systems

Edit

► Advanced details [Info](#)

Scroll down and you can see the Configure storage panel.

Currently, we have it set up for 8 Gigs, which is fine for our demo purposes here.

However, you will notice that we can set this up for 30 GB if we wanted to and that is still under the free tier t2.micro option that we started out with.

Data Lifecycle Manager policies.

0 x File systems

Edit

▼ Advanced details [Info](#)

Domain join directory [Info](#)

Select



[Create new directory](#)



IAM instance profile [Info](#)

Select



[Create new IAM profile](#)



Hostname type [Info](#)

IP name

DNS Hostname [Info](#)

- ☒ Enable IP name IPv4 (A record) DNS requests
- ☒ Enable resource-based IPv4 (A record) DNS requests
- ☐ Enable resource-based IPv6 (AAAA record) DNS requests

Instance auto-recovery [Info](#)

Select

Shutdown behavior [Info](#)

Stop

Advanced details just allows you to throw in some options that might be advantageous for your organization.

For instance, joining a Domain directory, create an Identity and Access Management profile, etc.

For the purposes of this demo I am not going to add anything from Advanced details, but it is good to familiarize yourself with the various options—especially if one is running cloud servers for a large organization.

Number of instances | [Info](#)

1

Software Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type
ami-04a81a99f5ec58529

Virtual server type (instance type)



t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 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, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet. 

Cancel

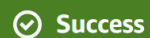
Launch instance

Along the side of my configuration a Summary is created which tells me everything about the AMI that I have set up.

This instance includes the following:

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, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

After you read through the instance summary, click “Launch instance.”

[EC2](#) > [Instances](#) > Launch an instance

Success

Successfully initiated launch of instance ([i-01d356480fd668ae8](#))**We have launched our AWS AMI!**

► Launch log

Next Steps

< 1 2 3 4 5 6 >

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

[Create billing alerts](#)

Connect to your instance

Once your instance is running, log into it from your local computer.

[Connect to instance](#)[Learn more](#)

Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

[Connect an RDS database](#)[Create a new RDS database](#)[Learn more](#)

Create EBS snapshot policy

Create a policy that automates the creation, retention, and deletion of EBS snapshots

[Create EBS snapshot policy](#)

Manage detailed monitoring

Enable or disable detailed monitoring for

Create Load Balancer

Create a application, network gateway or

Create AWS budget

AWS Budgets allows you to create

Manage CloudWatch alarms

Create or update Amazon CloudWatch

EC2 Dashboard



EC2 Global View

Events

Console-to-
Code [Preview](#)

▼ Instances

Instances

Instance Types

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Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

▼ Images

AMIs

AMI Catalog

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

▼ Network & Security

Resources

EC2 Global view



You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)

1

Auto Scaling Groups

0

Dedicated Hosts

0

Elastic IPs

0

Instances

1

Key pairs

1

Load balancers

0

Placement groups

0

Security groups

3

Snapshots

0

Volumes

1

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance

Migrate a server

Note: Your instances will launch in the US East (N. Virginia) Region

Instance alarms

View in CloudWatch

Service health

AWS Health Dashboard



Region

US East (N. Virginia)

Status

This service is operating normally.

Zones

Zone name

Zone ID

us-east-1a

use1-az6

EC2 Free Tier [Info](#)

Offers for all AWS Regions.

0 EC2 free tier offers in

End of month forecast

0 offers forecasted to ex

Exceeds free tier

 0 offers exceeded and is r
ricing.[View Global EC2 resources](#)[View all AWS Free Tier offers](#)

Account attributes

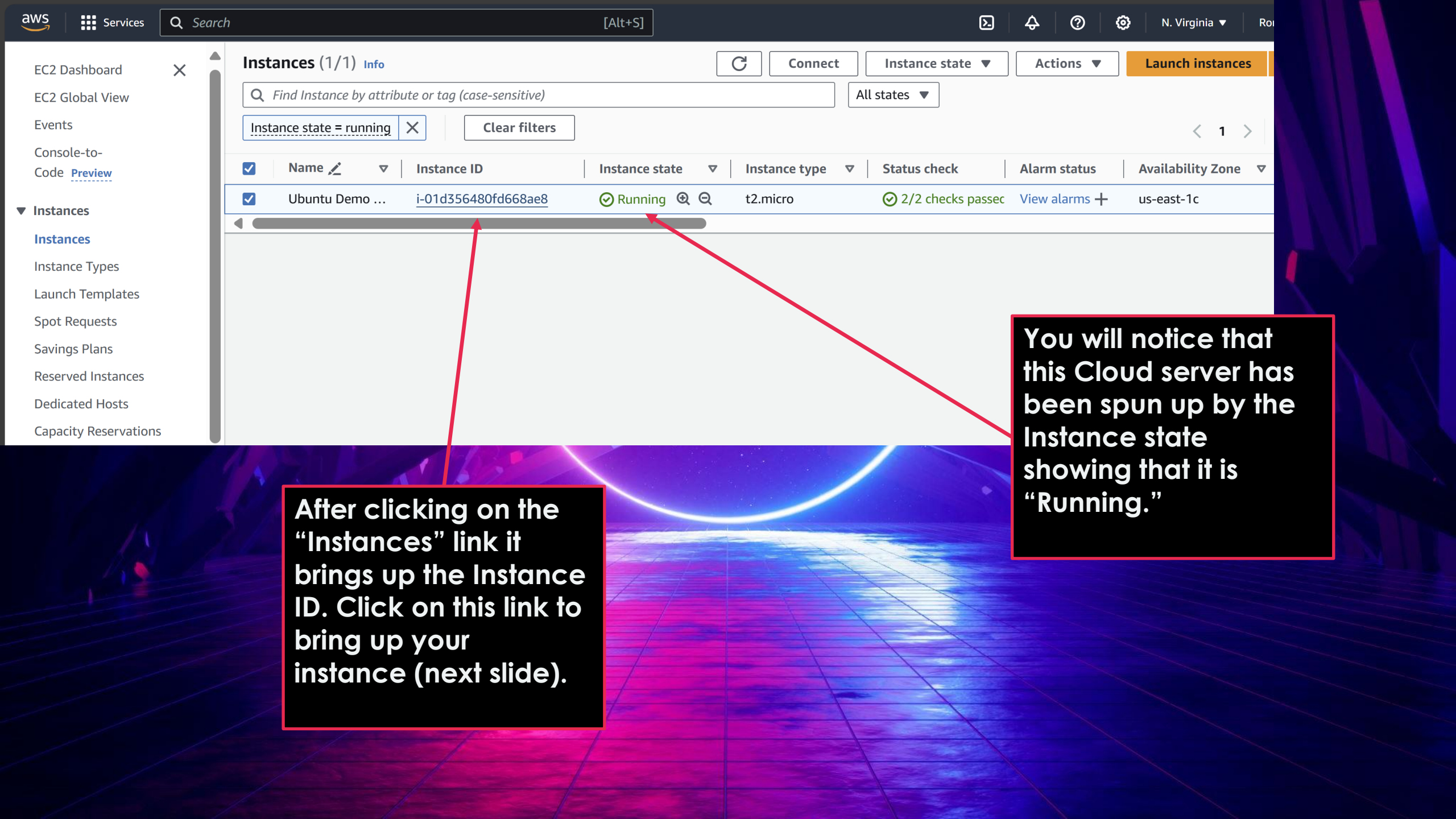
Default VPC

vpc-01210bc332270c89b

Settings

[Data protection and security](#)[Zones](#)[EC2 Serial Console](#)[Default credit specification](#)[EC2 console preferences](#)

Go to the EC2 Dashboard and we can see that our instance is running.



aws

Services

Search

[Alt+S]

N. Virginia

Ro

EC2 Dashboard

EC2 Global View

Events

Console-to-Code

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Instances (1/1) Info

Refresh

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

Instance state = running

Clear filters

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	Ubuntu Demo ...	i-01d356480fd668ae8	Running	t2.micro	2/2 checks pass	View alarms	us-east-1c

After clicking on the “Instances” link it brings up the Instance ID. Click on this link to bring up your instance (next slide).

You will notice that this Cloud server has been spun up by the Instance state showing that it is “Running.”

- EC2 Dashboard
- EC2 Global View
- Events
- Console-to-Code [Preview](#)
- ▼ Instances
- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations
- ▼ Images
- AMIs
- AMI Catalog
- ▼ Elastic Block Store
- Volumes
- Snapshots
- Lifecycle Manager
- ▼ Network & Security

EC2 > Instances > i-01d356480fd668ae8

Instance summary for i-01d356480fd668ae8 (Ubuntu Demo Cloud) Info

Updated 3 minutes ago

Public IPv4 address copied

Instance ID
i-01d356480fd668ae8 (Ubuntu Demo Cloud)

IPv6 address
-

Hostname type
IP name: ip-172-31-85-211.ec2.internal

Answer private resource DNS name
IPv4 (A)

Auto-assigned IP address
44.203.250.13 [Public IP]

IAM Role
-

IMDSv2
Required

Public IPv4 address
44.203.250.13 | open address

Instance state
Running

Private IP DNS name (IPv4 only)
ip-172-31-85-211.ec2.internal

Instance type
t2.micro

VPC ID
vpc-01210bc332270c89b

Subnet ID
subnet-026e52e16a47788b9

Instance ARN
arn:aws:ec2:us-east-1:590183875712:instance/i-01d356480fd668ae8

Private IPv4 addresses
172.31.85.211

Public IPv4 DNS
ec2-44-203-250-13.compute-1.amazonaws.com | open address

Elastic IP address
-

AWS Compute Optimizer
Opt-in to recommendations. | Learn more

Auto Scaling
-

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

This page shows all the specifics of your AWS Cloud server. I went ahead and clicked the double-squares to copy my public IPV4 Address to the clipboard.

```
ron@goldenstate: ~  
Command Prompt  
Microsoft Windows [Version 10.0.22631.3880]  
(c) Microsoft Corporation. All rights reserved.  
C:\Users\Ron>cd downloads  
C:\Users\Ron\Downloads>dir *.pem  
Volume in drive C is OS  
Volume Serial Number is 4C8F-4F5E  
  
Directory of C:\Users\Ron\Downloads  
  
04/15/2024  09:32 AM                1,674 ron.pem  
04/15/2024  01:31 PM                1,678 ron2.pem  
04/29/2024  09:46 AM                1,678 UbuntuTemp.pem  
            3 File(s)                5,030 bytes  
            0 Dir(s)  688,163,856,384 bytes free  
  
C:\Users\Ron\Downloads>  
C:\Users\Ron\Downloads>  
C:\Users\Ron\Downloads>ssh -i UbuntuTemp.pem ubuntu@44.203.250.13
```

Now we go back to the command prompt to ssh into our brand, shiny, new AWS Cloud Server by typing in the following command:

```
ssh -i UbuntuTemp.pem ubuntu@44.203.250.13
```

That is why we copied the public IPV4 address prior to going to the command prompt.

Note that the ssh command includes our key pair .pem file so that is what gives us authorization to access the server. Plus, the server is set up only to allow traffic from my IP address.

Hit "Enter" and....


```
System load: 0.0          Processes:           106
Usage of /:  26.9% of 6.71GB Users logged in:       0
Memory usage: 31%        IPv4 address for enX0: 172.31.85.211
Swap usage:  0%
```

* Ubuntu Pro delivers the most comprehensive open source security and compliance features.

<https://ubuntu.com/aws/pro>

Expanded Security Maintenance for Applications is not enabled.

16 updates can be applied immediately.
13 of these updates are standard security updates.
To see these additional updates run: `apt list --upgradable`

Enable ESM Apps to receive additional future security updates.
See <https://ubuntu.com/esm> or run: `sudo pro status`

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in `/usr/share/doc/*/copyright`.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "`sudo <command>`".
See "`man sudo_root`" for details.

ubuntu@ip-172-31-85-211:~\$ |

We did it! We are now remotely logged into the AWS Cloud Server that we just stood up.

You will notice that the IP now comes up as the private IPV4 address ending in 85-211 instead of the public IPV4 address that we used to gain access to the server.

Now you can log into your Ubuntu server remotely and use the Linux system just as you would on a VM.



This was a basic demonstration on how to set up cloud servers on AWS. Hope it was helpful. Any questions please feel free to contact me on my LinkedIn page:
<https://www.linkedin.com/in/ronald-hustwit72/>