

# **AWS EC2**

# **Redhat Instance**

# DevOps with AWS and LINUX by Mr.SATISH Sathyam Technologies, Hyderabad #

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Launch Instance Connect Actions

Instance State : Running Add filter

Name Instance ID Instance Type Availability Zone Instance State

No Instances found matching your filter criteria

Select an instance above

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## Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

### Name and tags

Name

REDHAT

Add additional tags

### ▼ Application and OS Images (Amazon Machine Image)

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

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Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE

Amazon Machine Image (AMI)

Red Hat Enterprise Linux 8 (HVM), SSD Volume Type ami-092b43193629811af (64-bit (x86)) / ami-0082f8c86a7132597 (64-bit (Arm)) Free tier eligible

Virtualization: hvm ENA enabled: true Root device type: ebs

Description Provided by Red Hat, Inc.

Architecture 64-bit (x86) AMI ID ami-092b43193629811af Verified provider

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The screenshot shows the AWS Quick Start interface. At the top, there's a navigation bar with the AWS logo, search bar, and user information. Below it, a row of quick links for various operating systems: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE. The Red Hat link is highlighted with a red box and a red arrow pointing up from the bottom of the page towards it. To the right of the links is a search icon and a link to 'Browse more AMIs'. Below the links, there's a section for 'Amazon Machine Image (AMI)' with details about Red Hat Enterprise Linux 8 (HVM), SSD Volume Type, including its AMI ID (ami-092b43193629811af). Further down, there are sections for 'Description' (Provided by Red Hat, Inc.), 'Architecture' (64-bit (x86)), 'AMI ID' (ami-092b43193629811af), and a 'Verified provider' badge. At the bottom, there are links for feedback, language settings, and legal information.

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Instance type

t2.micro Family: t2 1 vCPU 1 GiB Memory On-Demand Linux pricing: 0.0116 USD per Hour On-Demand Windows pricing: 0.0162 USD per Hour Free tier eligible Compare instance types

▼ 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

▼ Network settings Info Edit

Network Info vpc-2fb3c744 Subnet Info

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Instance type t2.micro Family: t2 1 vCPU On-Demand Linux On-Demand Windows

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. 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](#)

**Key pair name** DEVOPS  
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 (Not supported for Windows instances)

**Private key file format**

.pem For use with OpenSSH

.ppk For use with PuTTY

Cancel Create key pair

The screenshot shows the AWS Launch Wizard interface for creating a new Amazon EC2 instance. The top navigation bar includes the AWS logo, a 'Services' menu, and a search bar. A red arrow points from the 'key' label at the top right towards the 'Key pair name' dropdown.

**Instance type**

**t2.micro**  
Family: t2 1 vCPU 1 GiB Memory  
On-Demand Linux pricing: 0.0116 USD per Hour  
On-Demand Windows pricing: 0.0162 USD per Hour

Free tier eligible

Compare instance types

**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**

DEVOPS

Create new key pair

**Network settings** Info

Edit

Network Info  
vpc-2fb3c744

Subnet Info

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### ▼ Network settings

**Network **  
vpc-2fb3c744

**Subnet **  
No preference (Default subnet in any availability zone)

**Auto-assign public IP **  
Enable

**Firewall (security groups) **

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-7**' with the following rules:

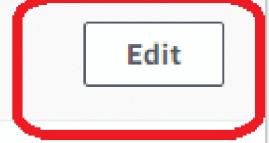
Allow SSH traffic from   
 Helps you connect to your instance Anywhere  
0.0.0.0/0

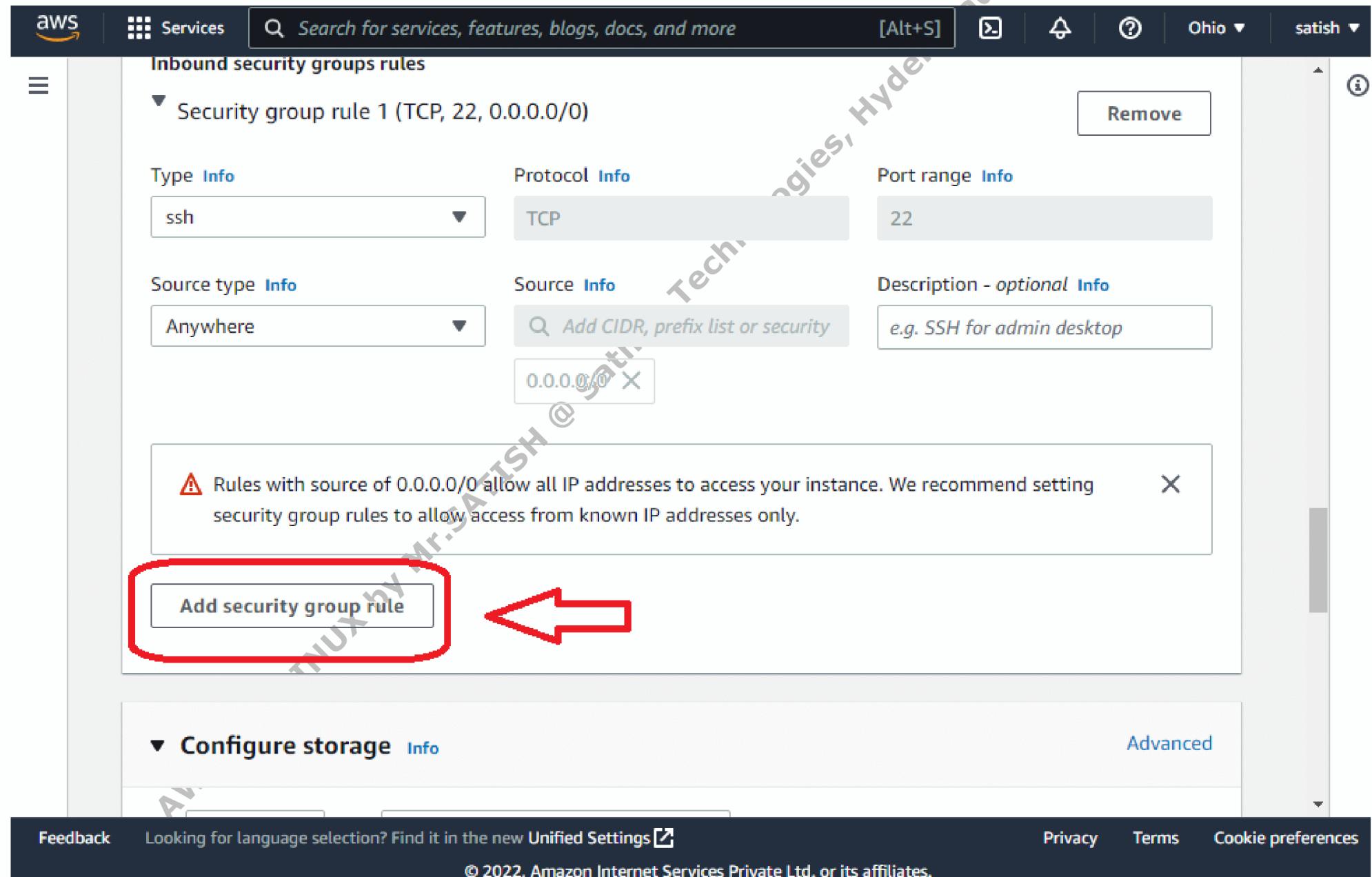
Allow HTTPS traffic from the internet   
 To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet

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0.0.0.0/0 X

**select All TCP**

Security group rule 2 (TCP, 0-65535, 0.0.0.0/0) Remove

Type Info Protocol Info Port range Info

All TCP TCP 0-65535

Source type Info Source Info Description - optional Info

Anywhere Add CIDR, prefix list or security e.g. SSH for admin desktop

0.0.0.0/0 X

**select AnyWhere**

⚠ 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. X

Add security group rule

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▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Provided by Red Hat, Inc.  
ami-092b43193629811af

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 10 GiB

Cancel Launch instance



Successfully initiated launch of instance (i-0c3cbecbdadb78202)

▶ Launch log

## Next Steps

### Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier)

### How to connect to your instance

Your instance is launching and it might be a few minutes until it is in the running state, when it will be ready for you to use

Click View Instances to monitor your instance's status. Once your instance is in the 'running' state, you can connect to it from the Instances screen. Find out how to connect to your instance

[View more resources to get you started](#)



[View all instances](#)

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## Git - Downloading Package



Download for Windows. Click here to download the latest (2.37.3) 32-bit version of **Git for Windows**. This is the most recent maintained build.

You've visited this page many times. Last visit: 23/9/22

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## Downloads - Git SCM

Downloads. macOS · **Windows** · Linux/Unix · Older releases are available and the **Git** source repository is on GitHub.

<https://gitforwindows.org>

## Git for Windows

**Git for Windows** focuses on offering a lightweight, native set of tools that bring the full feature set of the Git SCM to Windows while providing appropriate ...

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The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on [Amazon.com](#).

## Download for Windows

[Click here to download](#) the latest (2.37.3) 64-bit version of **Git for Windows**. This is the most recent [maintained build](#). It was released **24 days ago**, on 2022-08-30.

Other Git for Windows downloads

Standalone Installer

[32-bit Git for Windows Setup.](#)

[64-bit Git for Windows Setup.](#)

Portable ("thumbdrive edition")

[32-bit Git for Windows Portable.](#)

[64-bit Git for Windows Portable.](#)

Using `winget` tool

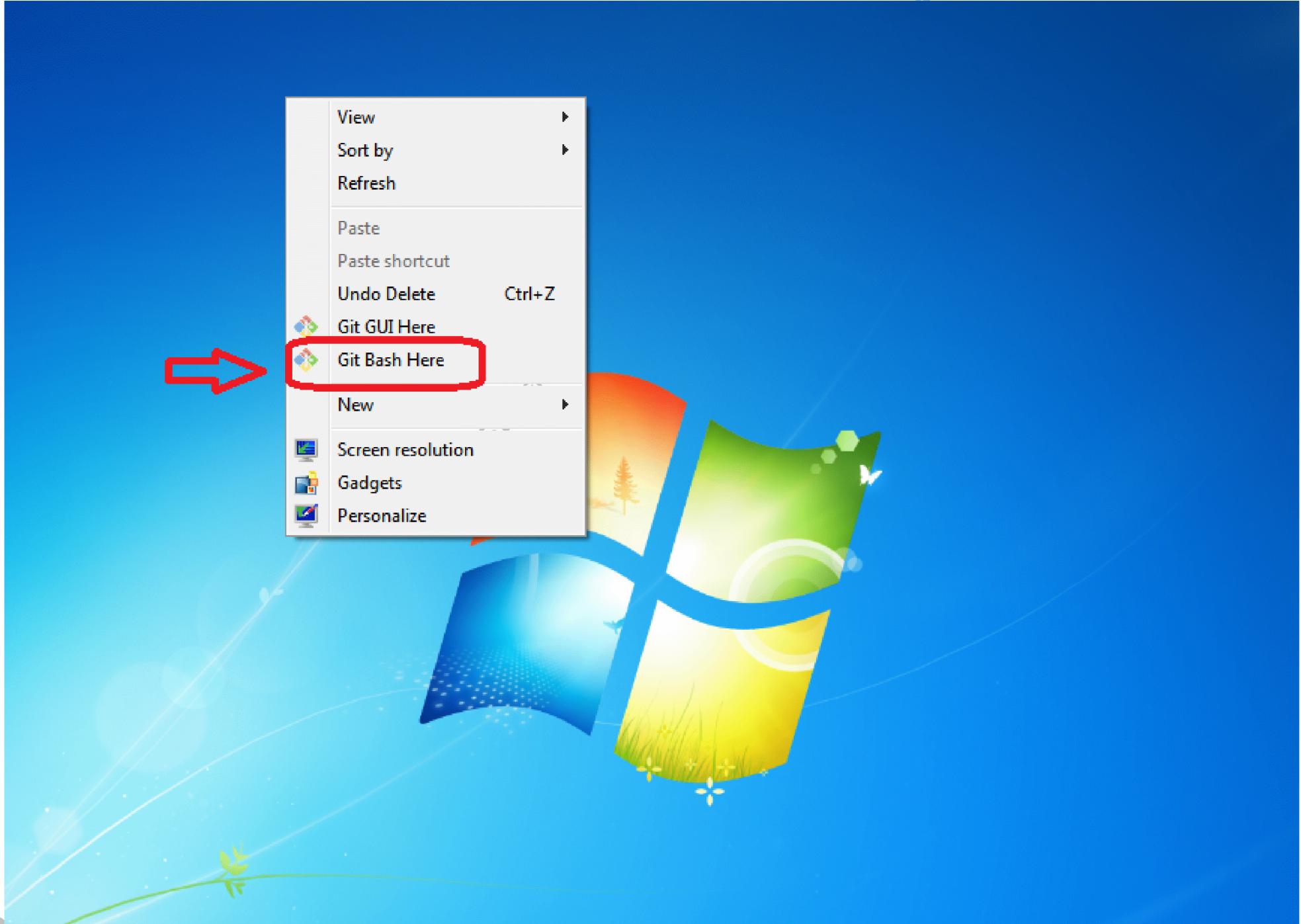
Install `winget` tool if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git -e --source winget
```

The current source code release is version 2.37.3. If you want the newer version, you can build it from [the source code](#).

Download and  
do Install GitBash

Now What?



# D



DEVOPS.pem



MINGW64:/c/Users/Admin/Desktop

Admin@Sathya-Tech MINGW64 ~/Desktop

\$

Admin@Sathya-Tech MINGW64 ~/Desktop

\$ cp ~/Downloads/DEVOPS.pem ~/Desktop/

copy key(.pem file)  
to Desktop

Admin@Sathya-Tech MINGW64 ~/Desktop

\$

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Capacity Reservations

Images

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name Instance ID Instance Type Availability Zone Instance State

Name	Instance ID	Instance Type	Availability Zone	Instance State
MAIN-SERVER	i-0c169d97b4275f46a	t2.micro	us-east-2c	stopped
REDHAT	i-0c3cbecbdadb78202	t2.micro	us-east-2c	running
K8-Node	i-0cb2a995dcf28dbfd	t2.micro	us-east-2a	stopped
K8-Master	i-0fe383e53cd51eadb	t2.medium	us-east-2c	stopped

Instance: i-0c3cbecbdadb78202 (REDHAT) Public DNS: ec2-18-217-206-252.us-east-2.compute.amazonaws.com

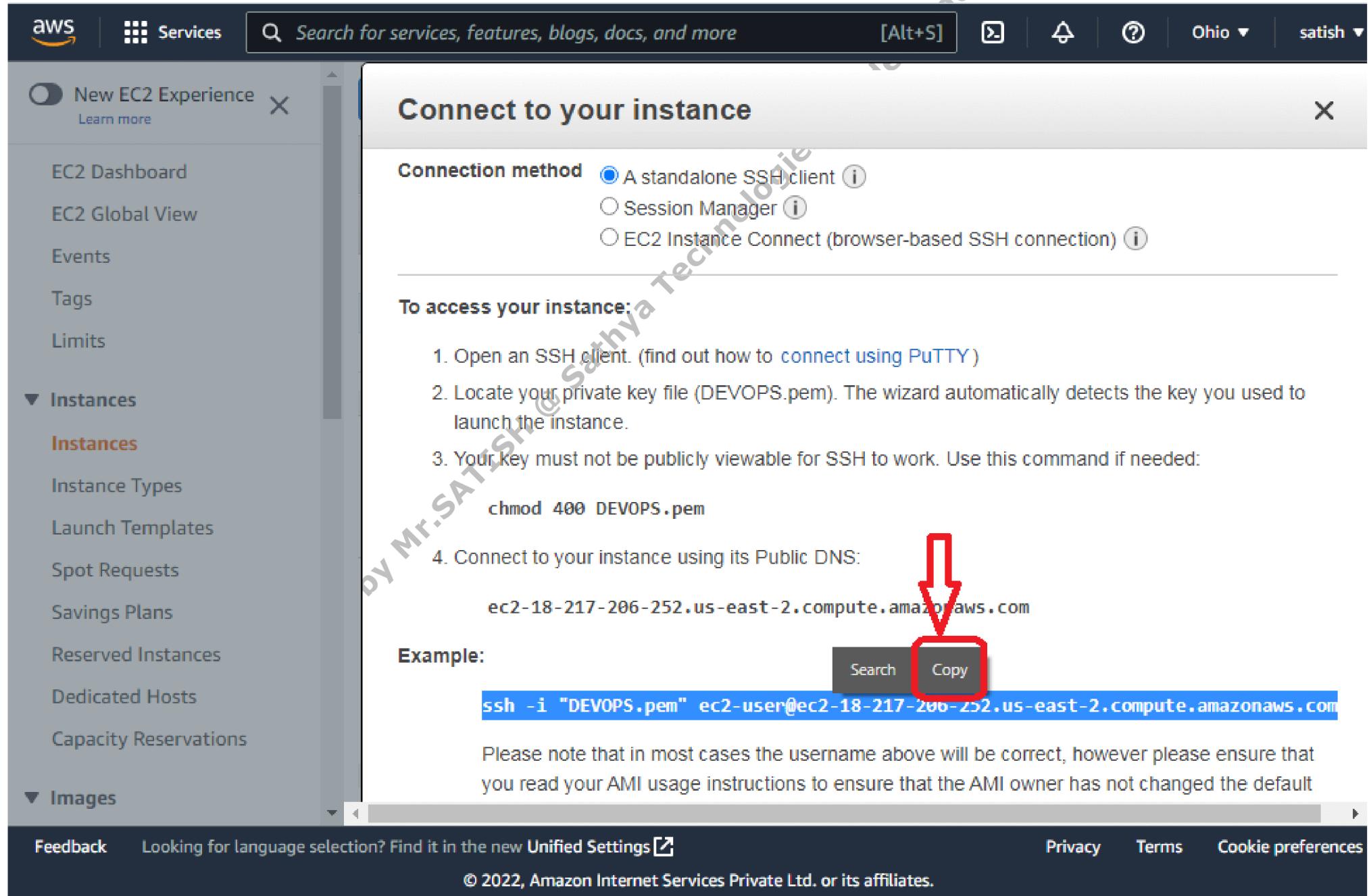
Description Status Checks Monitoring Tags

Instance ID	i-0c3cbecbdadb78202	Public DNS (IPv4)	ec2-18-217-206-2
Instance state	running	east-	2.compute.amazc
Instance type	t2.micro	IPv4 Public IP	18.217.206.252
Finding	Opt-in to AWS	IPv6 IPs	-
		Elastic IPs	

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MINGW64:/c/Users/Admin/Desktop

Admin@Sathya-Tech MINGW64 ~/Desktop

\$

Admin@Sathya-Tech MINGW64 ~/Desktop

\$ cp ~/Downloads/DEVOPS.pem ~/Desktop/

Admin@Sathya-Tech MINGW64 ~/Desktop

\$ ssh -i "DEVOPS.pem" ec2-user@ec2-18-217-206-252.us-east-2.compute.amazonaws.com

The authenticity of host 'ec2-18-217-206-252.us-east-2.compute.amazonaws.com (18.217.206.252)' can't be established.

ECDSA key fingerprint is SHA256:uxJ8n8+8fLnw4KSj2DU05+lehRfdEGK5F9cjNC+kkW0.

Are you sure you want to continue connecting (yes/no)? yes



[ec2-user@ip-172-31-37-79:~]



ECDSA key fingerprint is SHA256:uxJ8n8+8fLnw4KSj2DU05+lehRfdEGK5F9cjNC+kkW0.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added 'ec2-18-217-206-252.us-east-2.compute.amazonaws.com,18.217.206.252' (ECDSA) to the list of known hosts.  
[ec2-user@ip-172-31-37-79 ~]\$  
[ec2-user@ip-172-31-37-79 ~]\$ **cat /etc/os-release**  
NAME="Red Hat Enterprise Linux"  
VERSION="8.6 (Ootpa)"  
ID="rhel"  
ID\_LIKE="fedora"  
VERSION\_ID="8.6"  
PLATFORM\_ID="platform:el8"  
PRETTY\_NAME="Red Hat Enterprise Linux 8.6 (Ootpa)"  
ANSI\_COLOR="0;31"  
CPE\_NAME="cpe:/o:redhat:enterprise\_linux:8::baseos"  
HOME\_URL="https://www.redhat.com/"  
DOCUMENTATION\_URL="https://access.redhat.com/documentation/red\_hat\_enterprise\_linux/8/"  
BUG\_REPORT\_URL="https://bugzilla.redhat.com/"  
  
REDHAT\_BUGZILLA\_PRODUCT="Red Hat Enterprise Linux 8"  
REDHAT\_BUGZILLA\_PRODUCT\_VERSION=8.6  
REDHAT\_SUPPORT\_PRODUCT="Red Hat Enterprise Linux"  
REDHAT\_SUPPORT\_PRODUCT\_VERSION="8.6"  
[ec2-user@ip-172-31-37-79 ~]\$ |