

Create an EC2 AWS Instance:

Services

Search for services, features, blogs, docs, and more

[Alt+S]

N. Virginia

Corestack_R

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

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

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

S

Browse more AMIs

Including AMIs from AWS, Marketplace and

Summary

Number of instances

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

ami-026b57f3c383c2eec

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, 30 GiB of EBS storage, 3 million IOPS of EBS snapshots, and

×

Cancel

Launch instance

Connect to EC2 console:

```
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Last login: Thu Oct 13 05:07:05 2022 from ec2-18-206-107-27.compute-1.amazonaws.com

 _ _ _ _ _
| | ( _ | /   Amazon Linux 2 AMI
|_| \_/_|_|_|

https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 7 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-89-125 ~]$
```

Install jdk1.8:

```
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Corestack_Role/ajithkumar_k_mphasis @ 9650-4368-0190

-bash: root: command not found
[ec2-user@ip-172-31-89-125 ~]$ sudo su
[root@ip-172-31-89-125 ec2-user]# yum install java-1.8.0-openjdk
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package java-1.8.0-openjdk.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 will be installed
--> Processing Dependency: java-1.8.0-openjdk-headless(x86-64) = 1:1.8.0.342.b07-1.amzn2.0.1 for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: xorg-x11-fonts-Type1 for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libjvm.so(SUNWprivate 1.1) (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libjava.so(SUNWprivate 1.1) (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libasound.so.2(ALSA 0.9.0rc4) (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libasound.so.2(ALSA 0.9) (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libXcomposite(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: gtk2(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: fontconfig(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libjvm.so() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libjava.so() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libgif.so.4() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libXtst.so.6() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libXrender.so.1() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libXi.so.6() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libXext.so.6() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Processing Dependency: libX11.so.6() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
--> Running transaction check
--> Package alsa-lib.x86_64 0:1.1.4.1-2.amzn2 will be installed
--> Package fontconfig.x86_64 0:12.13.0-4.3.amzn2 will be installed
```

Install Tomcat server:

```
[root@ip-172-31-89-125 ec2-user]# wget https://d1cdn.apache.org/tomcat/tomcat-9/v9.0.68/bin/apache-tomcat-9.0.68.tar.gz
--2022-10-13 05:15:15-- https://d1cdn.apache.org/tomcat/tomcat-9/v9.0.68/bin/apache-tomcat-9.0.68.tar.gz
Resolving d1cdn.apache.org (d1cdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to d1cdn.apache.org (d1cdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11597709 (11M) [application/x-gzip]
Saving to: 'apache-tomcat-9.0.68.tar.gz'

100%[=====>] 11,597,709 --.-R/s in 0.05s

2022-10-13 05:15:15 (217 MB/s) - 'apache-tomcat-9.0.68.tar.gz' saved [11597709/11597709]

[root@ip-172-31-89-125 ec2-user]#
```

Unzip Tomcat server tar file:

```
[root@ip-172-31-89-125 ec2-user]# tar -zxvf apache-tomcat-9.0.68.tar.gz
apache-tomcat-9.0.68/conf/
apache-tomcat-9.0.68/conf/catalina.policy
apache-tomcat-9.0.68/conf/catalina.properties
apache-tomcat-9.0.68/conf/context.xml
apache-tomcat-9.0.68/conf/jaspic-providers.xml
apache-tomcat-9.0.68/conf/jaspic-providers.xsd
apache-tomcat-9.0.68/conf/logging.properties
apache-tomcat-9.0.68/conf/server.xml
apache-tomcat-9.0.68/conf/tomcat-users.xml
apache-tomcat-9.0.68/conf/tomcat-users.xsd
apache-tomcat-9.0.68/conf/web.xml
apache-tomcat-9.0.68/bin/
apache-tomcat-9.0.68/lib/
apache-tomcat-9.0.68/logs/
```

Create S3 bucket:

Amazon S3 > Buckets

► Account snapshot View Storage Lens dashboard

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Buckets (1) [Info](#) 🔄 Copy ARN Empty Delete Create bucket

Buckets are containers for data stored in S3. [Learn more](#)

🔍 Find buckets by name < 1 > ⚙️

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
○	springappdeployaws	US East (N. Virginia) us-east-1	⚠️ Public	October 13, 2022, 12:25:30 (UTC+05:30)

Upload Jar file of spring application:

Amazon S3 > Buckets > springappdeployaws

springappdeployaws [Info](#)

Publicly accessible

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	Aws-spring-0.0.1-SNAPSHOT.jar	jar	October 13, 2022, 12:30:23 (UTC+05:30)	16.8 MB	Standard

Change permission of object to public:

springappdeployaws [Info](#)

Publicly accessible

Objects | Properties | **Permissions** | Metrics | Management | Access Points

Permissions overview

Access

Public

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

[Edit](#)

Block all public access

Off

► Individual Block Public Access settings for this bucket

Get spring boot application jar file in EC2 instance:

```
[ec2-user@ip-172-31-89-125 ~]$ wget https://springappdeployaws.s3.amazonaws.com/Aws-spring-0.0.1-SNAPSHOT.jar
--2022-10-13 07:16:08-- https://springappdeployaws.s3.amazonaws.com/Aws-spring-0.0.1-SNAPSHOT.jar
Resolving springappdeployaws.s3.amazonaws.com (springappdeployaws.s3.amazonaws.com)... 54.231.225.41
Connecting to springappdeployaws.s3.amazonaws.com (springappdeployaws.s3.amazonaws.com)|54.231.225.41|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 17632653 (17M) [application/x-www-form-urlencoded]
Saving to: 'Aws-spring-0.0.1-SNAPSHOT.jar'

100%[=====>] 17,632,653 --R/s in 0.1s

2022-10-13 07:16:08 (125 MB/s) - 'Aws-spring-0.0.1-SNAPSHOT.jar' saved [17632653/17632653]
```

Run the jar file:

```

apache-tomcat-9.0.68  apache-tomcat-9.0.68.tar.gz  Aws-spring-0.0.1-SNAPSHOT.jar
[ec2-user@ip-172-31-89-125 ~]$ java -jar Aws-spring-0.0.1-SNAPSHOT.jar

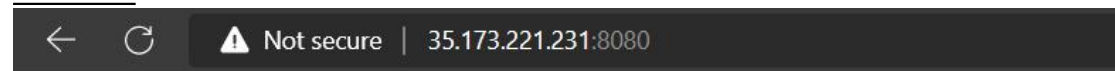
  ____  _
 / ___|| | | |
| |___| |_| |
 \___ \|  _/
      |_| |_|

:: Spring Boot ::                (v2.7.4)

2022-10-13 07:40:08.926 INFO 16937 --- [          main] com.example.demo.AwsSpringApplication : Starting AwsSpringApplication v0.0.1-SNAPSHOT using Java 1.8.0_342 on i
p-172-31-89-125.ec2.internal with PID 16937 (/home/ec2-user/Aws-spring-0.0.1-SNAPSHOT.jar started by ec2-user in /home/ec2-user)
2022-10-13 07:40:08.930 INFO 16937 --- [          main] com.example.demo.AwsSpringApplication : No active profile set, falling back to 1 default profile: "default"
2022-10-13 07:40:11.668 INFO 16937 --- [          main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-10-13 07:40:11.698 INFO 16937 --- [          main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-10-13 07:40:11.699 INFO 16937 --- [          main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.65]
2022-10-13 07:40:11.854 INFO 16937 --- [          main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-10-13 07:40:11.860 INFO 16937 --- [          main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 2783 ms
2022-10-13 07:40:13.248 INFO 16937 --- [          main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2022-10-13 07:40:13.278 INFO 16937 --- [          main] com.example.demo.AwsSpringApplication : Started AwsSpringApplication in 5.41 seconds (JVM running for 6.416)

```

OUTPUT:



Welcome to AWS spring boot deployment!!