

# Deployment of Spring Boot Pet Clinic Application on AWS EC2

## (Amazon Linux)

Step 1: here creation of EC2 instance shown  
-----Search EC2

The screenshot shows the AWS search results for the query 'ec2'. The top navigation bar includes the AWS logo, a search bar with 'Q ec2', an 'Ask Amazon' button, and account information ('Account ID: 7217-8765-0579' and 'voclabs/user3790801=ashishgoswami23@lpu.in'). The main content area is titled 'Services' and lists three items: 'EC2 Virtual Servers in the Cloud', 'EC2 Image Builder', and 'Recycle Bin'. Below this is a 'Features' section with 'EC2 Instances' (CloudWatch feature), 'EC2 Resource Health' (CloudWatch feature), and 'Dashboard' (EC2 feature). A sidebar on the right contains a 'Create application' button and a 'Find applications' search bar. At the bottom, there are links for 'Getting started with AWS', 'Open issues', 'Current monitor', 'Cost (\$)', and 'CloudShell Feedback'.

-----Launch Instance

The screenshot shows the AWS EC2 landing page. The top navigation bar includes the AWS logo, a search bar with 'Search [Alt+S]', an 'Ask Amazon' button, and account information ('Account ID: 7217-8765-0579' and 'voclabs/user3790801=ashishgoswami23@lpu.in'). The left sidebar has a 'EC2' icon and sections for 'Dashboard', 'Instances' (with sub-options like Instances, Instance Types, Launch Templates, etc.), 'Images' (AMIs, AMI Catalog), and 'Elastic Block Store' (Volumes, Snapshots). The main content area features a message 'You can change your default landing page for EC2.' with 'Permanently dismiss' and 'Change landing page' buttons. It includes sections for 'Resources' (listing Instances (running) 0, Auto Scaling Groups 0, Capacity Reservations 0, Dedicated Hosts 0, Elastic IPs 0, Instances 0, Key pairs 1, Load balancers 0, Placement groups 0, Security groups 1, Snapshots 0, Volumes 0), 'Launch instance' (with 'Launch instance' and 'Migrate a server' buttons), 'Service health' (AWS Health Dashboard), and 'Explore AWS' (sections for Optimizing EC2 Cost with Spot Instances and EC2 Auto Scaling, and Amazon GuardDuty Malware Protection). The bottom of the page includes standard AWS footer links for 'CloudShell', 'Feedback', and copyright information ('© 2026, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences').

## ----Setup Instance

The screenshot shows the 'Launch an instance' wizard in the AWS Management Console. The first step, 'Name and tags', has 'petclinic-sandbox' entered in the 'Name' field. The second step, 'Application and OS Images (Amazon Machine Image)', shows a search bar and a grid of quick start AMIs including Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, and Debian. The third step, 'Summary', shows one instance being launched with AMI ami-0532be01f26a3de55, t2.micro instance type, and 1 volume(s) - 8 GiB storage. A note about the free tier is displayed. The 'Launch instance' button is at the bottom right.

## ----Instance Network Setting

The screenshot shows the 'Network settings' configuration step in the 'Launch an instance' wizard. It includes fields for VPC (vpc-0dc2b1f8c1f7a3ee7), Subnet (No preference), Availability Zone (No preference), Auto-assign public IP (Enable), and Firewall (Create security group). The security group name is 'launch-wizard-1'. The summary on the right shows one instance with the same configurations as the previous step.

-----Launch Instance SUCCESSFULLY

# -----Successfully Instance CREATED

The screenshot shows the AWS EC2 Instances Launch an instance page. At the top, there is a green success banner that reads "Success Successfully initiated launch of instance i-07e544b32927a2333". Below the banner, there is a "Launch log" section. Under "Next Steps", there are several cards: "Create billing and free tier usage alerts", "Connect to your instance", "Connect an RDS database", "Create EBS snapshot policy", "Manage detailed monitoring", "Create Load Balancer", "Create AWS budget", and "Manage CloudWatch alarms". Each card has a corresponding "Learn more" link. At the bottom of the page, there are links for "CloudShell" and "Feedback".

## -----Step 2: EC2 Console + Connect Page

The screenshot shows the AWS EC2 Connect to instance page. The URL in the address bar is "EC2 > Instances > i-07e544b32927a2333 > Connect to instance". The page title is "Connect". It has tabs for "EC2 Instance Connect", "Session Manager", "SSH client", and "EC2 serial console". The "EC2 Instance Connect" tab is selected. The "Instance ID" field shows "i-07e544b32927a2333 (petclinic-sandbox)". The "Connection type" section has two options: "Connect using a Public IP" (selected) and "Connect using a Private IP". Below that, there are options for "Public IPv4 address" (98.80.74.4) and "IPv6 address". The "Username" field contains "ec2-user". A note at the bottom says: "Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username." At the bottom right, there are "Cancel" and "Connect" buttons.

-----Now TERMINAL OPENS their we Download hrough commands (git, java, maven, petclinic)

aws CloudShell Search [Alt+S] United States (N. Virginia) Account ID: 7217-8765-0579  
vocabs/user3790801=ashishgposwami23@ipu.in

```
[INFO] Nothing to compile - all classes are up to date.  
[INFO] --- maven-resources-plugin:3.3.1:testResources (default-testResources) @ spring-petclinic ---  
[INFO] skip non existing resourceDirectory /home/ec2-user/spring-petclinic/src/test/resources  
[INFO] --- maven-compiler-plugin:3.14.1:testCompile (default-testCompile) @ spring-petclinic ---  
[INFO] Nothing to compile - all classes are up to date.  
[INFO] <<< spring-boot-maven-plugin:4.0.1:run (default-cli) < test-compile @ spring-petclinic <<<  
[INFO]  
[INFO] --- spring-boot-maven-plugin:4.0.1:run (default-cli) @ spring-petclinic ---  
[INFO] Attaching agents: []  
  
R E U L I  
:: Built with Spring Boot :: 4.0.1  
  
i-07e544b32927a2333 (petclinic-sandbox)  
PublicIPs: 98.80.74.4 PrivateIPs: 172.31.31.253
```

## Step 3: Success

-----Final Successful Build notification shows

```
us-east-1.console.aws.amazon.com/ec2-instance/connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-07e544b32927a2333&osUser=ec2-user&region=us-east-1&sshPort=22
ChatGPT Prompt En... Welcomel (148) | W... OOP in Java - Viewe... First Java Program ... Ashish Goswami - a... quaint_free_62 | Co... RdikME7HBNT - Lee... ashishgoswam07 ...
aws Search [Alt+S] United States (N. Virginia) Account ID: 7217-8765-0579
vodlabs/user3790801=ashishgoswami23

2026-01-28T08:18:37.511Z INFO 28404 --- [ restartedMain] o.s.boot.tomcat.TomcatWebServer : Tomcat started on port 8080 (http) with context path ''
2026-01-28T08:18:37.525Z INFO 28404 --- [ restartedMain] o.s.s.petclinic.PetClinicApplication : Started PetClinicApplication in 6.626 seconds (process running
r: 3.979)
2026-01-28T08:18:52.442Z INFO 28404 --- [ionShutdownHook] o.s.boot.tomcat.GracefulShutdown : Commencing graceful shutdown. Waiting for active requests to
complete
2026-01-28T08:18:52.452Z INFO 28404 --- [tomcat-shutdown] o.s.boot.tomcat.GracefulShutdown : Graceful shutdown complete
2026-01-28T08:18:52.458Z INFO 28404 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2026-01-28T08:18:52.465Z WARN 28404 --- [ionShutdownHook] o.s.b.f.support.DisposableBeanAdapter : Invocation of destroy method failed on bean with name 'inMemory
DatabaseShutdownExecutor': org.h2.jdbc.JdbcSQLNonTransientConnectionException: Database is already closed (to disable automatic closing at VM shutdown, add '--DB_CLOSE_
EXITE=FALSE' to the db URL) (90121-240)
2026-01-28T08:18:52.467Z INFO 28404 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...
2026-01-28T08:18:52.468Z INFO 28404 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 40.824 s
[INFO] Finished at: 2026-01-28T08:18:52Z
[INFO] -----
```

Final Output : Pet Clinic Running

Open your browser and go to:

<http://<EC2-PUBLIC-1P>:8080>

The Spring Pet Clinic application is now running successfull

Pet Clinic Web Application-----

