

Project - CI/CD Deployment for Spring boot Application.

Git Repository link: <https://github.com/moulaalihujare/Simplilearn-Phase-5-Projects.git>

Spring Boot Application Jar file pushed repository link: <https://github.com/moulaalihujare/Spring-Boot-Application-Running-EC2.git>

DESCRIPTION:

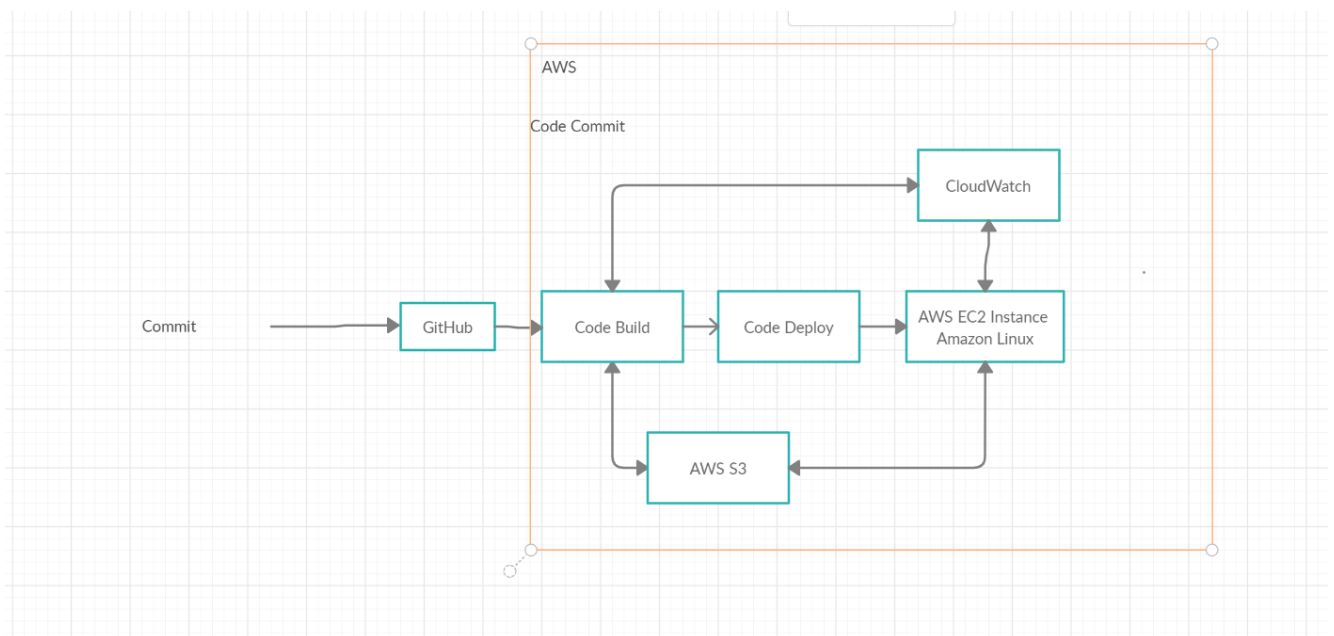
Project Objective:

In this project building a CI/CD pipeline to demonstrate continuous deployment and host the application on AWS EC2 instance.

Following flow used:

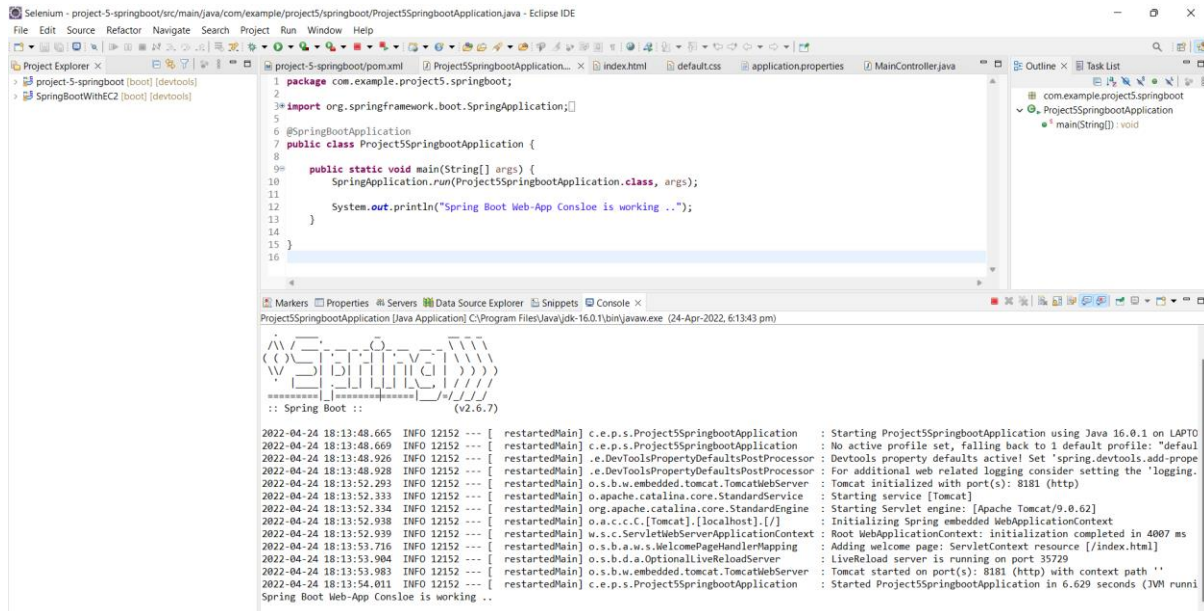
- Eclipse
- GitHub
- Jenkins
- AWS EC2/ Virtual machine

- Representing visually what we are doing here.



Following steps are used while making a Project:

- Eclipse: Creating / build the Spring boot Application inside an Eclipse workspace.
- Running the Spring boot Application on respective Tomcat server.



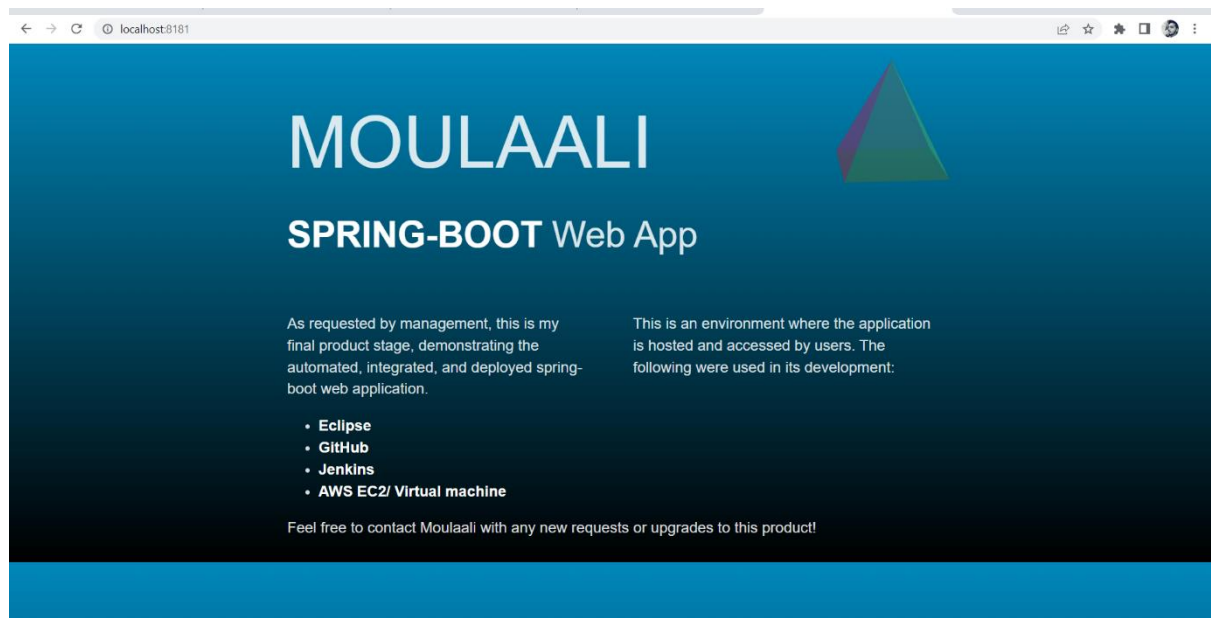
The screenshot shows the Eclipse IDE with a Spring Boot application. The main code file is `MainController.java`, which contains the following code:

```
1 package com.example.project5.springboot;
2
3 import org.springframework.boot.SpringApplication;
4
5 @SpringBootApplication
6 public class Project5SpringBootApplication {
7
8     public static void main(String[] args) {
9         SpringApplication.run(Project5SpringBootApplication.class, args);
10     }
11
12     System.out.println("Spring Boot Web-App Console is working ..");
13 }
14
15
16
```

The console output shows the application running successfully on port 8181:

```
2022-04-24 18:13:48.665 INFO 12152 --- [ restarted@main] c.e.p.s.Project5SpringBootApplication : Starting Project5SpringBootApplication using Java 16.0.1 on LAPTO
2022-04-24 18:13:48.669 INFO 12152 --- [ restarted@main] c.e.p.s.Project5SpringBootApplication : No active profile set, falling back to 1 default profile: "default"
2022-04-24 18:13:48.926 INFO 12152 --- [ restarted@main] e.DevToolsPropertyDefaultsPostProcessor : DevTools property defaults active! Set 'spring.devtools.add-props
2022-04-24 18:13:48.928 INFO 12152 --- [ restarted@main] e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.
2022-04-24 18:13:52.293 INFO 12152 --- [ restarted@main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8181 (http)
2022-04-24 18:13:52.333 INFO 12152 --- [ restarted@main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-04-24 18:13:52.334 INFO 12152 --- [ restarted@main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.62]
2022-04-24 18:13:52.938 INFO 12152 --- [ restarted@main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-04-24 18:13:52.939 INFO 12152 --- [ restarted@main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 4007 ms
2022-04-24 18:13:53.004 INFO 12152 --- [ restarted@main] o.s.b.a.w.s.WelcomePageHandlerMapping : Adding welcome page: ServletContext resource [/index.html]
2022-04-24 18:13:53.983 INFO 12152 --- [ restarted@main] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2022-04-24 18:13:54.011 INFO 12152 --- [ restarted@main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8181 (http) with context path ''
2022-04-24 18:13:54.011 INFO 12152 --- [ restarted@main] c.e.p.s.Project5SpringBootApplication : Started Project5SpringBootApplication in 6.629 seconds (JVM runni
Spring Boot Web-App Console is working ..
```

- Spring boot application running on https localhost port number: 8181.



- Creating the jar file for the Spring boot application by using following command.

cmd: mvn package

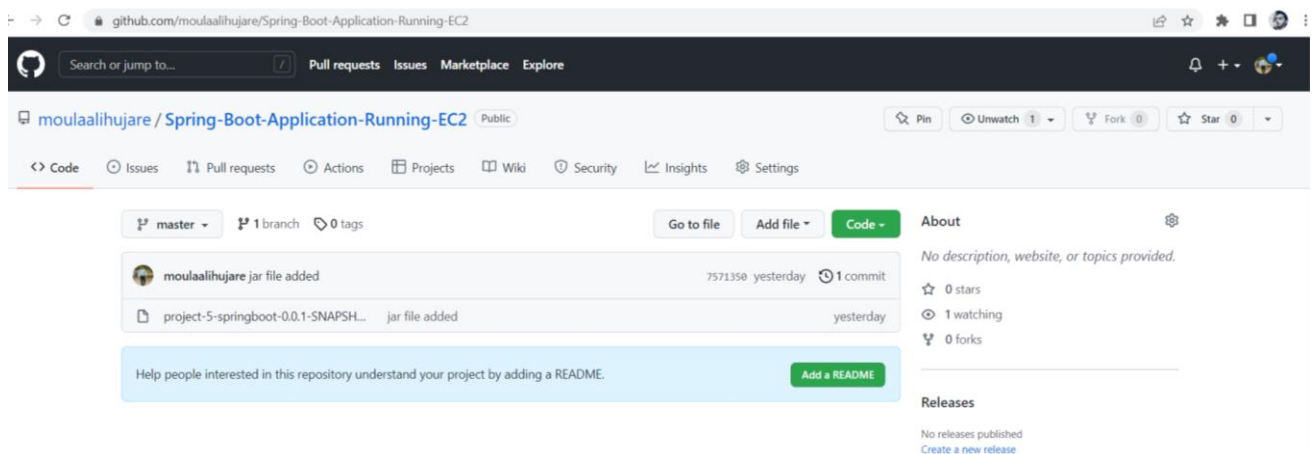
```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.22000.613]
(c) Microsoft Corporation. All rights reserved.

C:\Users\moula>cd "C:\Users\moula\OneDrive\Desktop\project 5 springboot\project-5-springboot"

C:\Users\moula\OneDrive\Desktop\project 5 springboot\project-5-springboot>mvn package
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.example:project-5-springboot >-----
[INFO] Building project-5-springboot 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ project-5-springboot ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 1 resource
[INFO]
```

```
C:\WINDOWS\system32\cmd.exe
ot-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.6.7:repackage (repackage) @ project-5-springboot ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 13.085 s
[INFO] Finished at: 2022-04-25T17:50:19+05:30
[INFO]
C:\Users\moula\OneDrive\Desktop\project 5 springboot\project-5-springboot>
```

- Push the jar file into GitHub repository.



- Launch the AWS.
- Next launch the new EC2 instance.

console.aws.amazon.com/console/home?region=us-east-1#

services, features, blogs, docs, and more [Alt+S]

Console Home [Info](#) Actions ▾

Recently visited [Info](#)

- EC2
- S3
- CloudShell
- VPC

Welcome to AWS

[Getting started with AWS](#)
Learn the fundamentals and find valuable information to get the most out of AWS.

[Training and certification](#)
Learn from AWS experts and advance your skills and knowledge.

[What's new with AWS?](#)

for services, features, blogs, docs, and more [Alt+S]

Instances [Info](#) Refresh Connect Instance state ▾ Actions ▾ Launch instances ▾

Instance state = running Clear filters

Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Public IPv4 DNS	Public IPv4 ... ▾	Elastic IP ▾
No matching instances found									

Select an instance

Services [Alt+S]

You've been opted into the new launch experience. [Find out more](#) about this experience or [send us feedback](#). You can still re...

EC2 > Instances > Launch an instance

Launch an instance [Info](#)

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) [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

Recents **Quick Start**

Amazon Linux
aws

Ubuntu
ubuntu

Windows
Microsoft

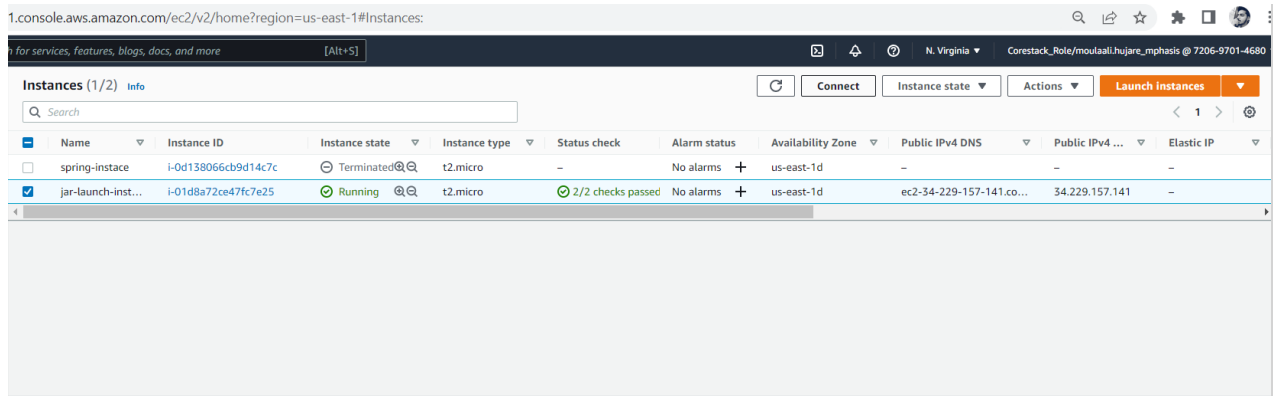
Red Hat
RedHat

SUSE Linux
SUSE

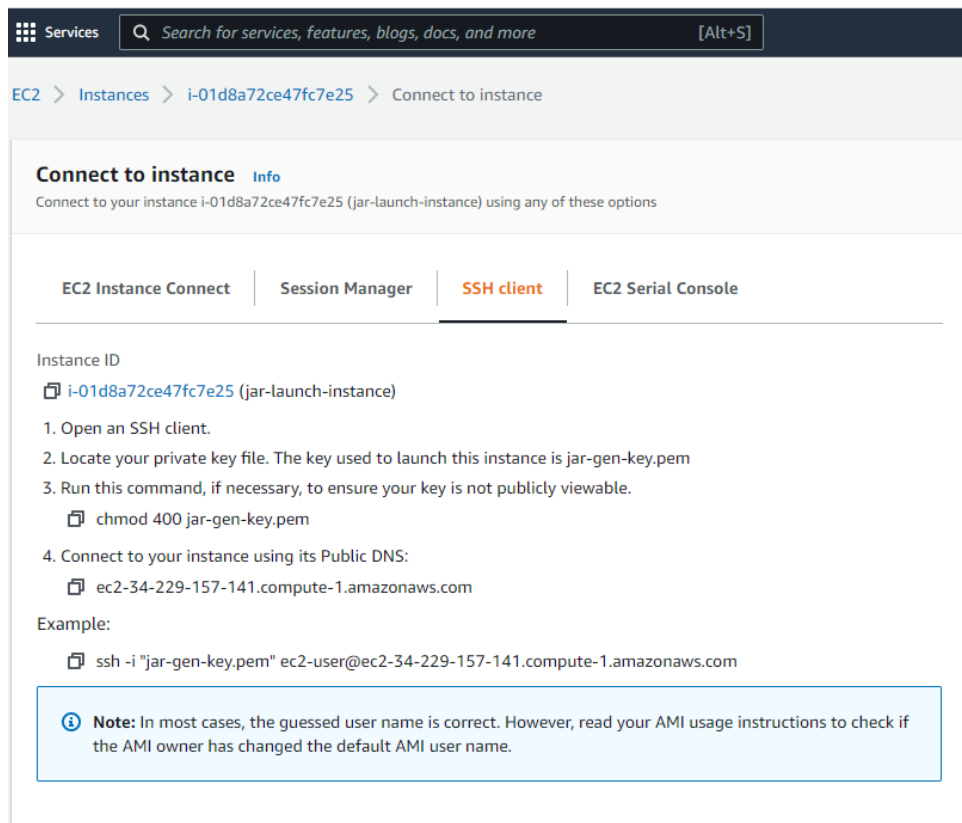
[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

- **Connect the respective instance.**



- **Copy the EC2 ssh client ID.**



- Open the git bash and paste the ssh ID.

```
ec2-user@ip-172-31-21-19:~/Spring-jar
Moulaali@LAPTOP-36LOP7V4 MINGW64 ~/OneDrive/Desktop/Ec2 Jar File (master)
$ ssh -i "jar-gen-key.pem" ec2-user@ec2-34-229-157-141.compute-1.amazonaws.com
The authenticity of host 'ec2-34-229-157-141.compute-1.amazonaws.com (34.229.157.141)' can't be established.
ED25519 key fingerprint is SHA256:b26H9LyGLa+ggczcPcZ6fxQ0ESkk0ZWVrIRtLYHCq+g.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-34-229-157-141.compute-1.amazonaws.com' (ED25519)
to the list of known hosts.

  _ _ _ _ _
 _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/ _/
Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-21-19 ~]$ sudo yum -y update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
No packages marked for update
[ec2-user@ip-172-31-21-19 ~]$ sudo yum install git -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package git.x86_64 0:2.32.0-1.amzn2.0.1 will be installed
--> Processing Dependency: perl-Git = 2.32.0-1.amzn2.0.1 for package: git-2.32.0-1.amzn2.0.1.x86_64
--> Processing Dependency: git-core-doc = 2.32.0-1.amzn2.0.1 for package: git-2.32.0-1.amzn2.0.1.x86_64
--> Processing Dependency: git-core = 2.32.0-1.amzn2.0.1 for package: git-2.32.0-1.amzn2.0.1.x86_64
--> Processing Dependency: emacs-filesystem >= 27.1 for package: git-2.32.0-1.amzn2.0.1.x86_64
--> Processing Dependency: perl(Term::ReadKey) for package: git-2.32.0-1.amzn2.0.1.x86_64
--> Processing Dependency: perl(Git::I18N) for package: git-2.32.0-1.amzn2.0.1.x86_64
--> Processing Dependency: perl(Git) for package: git-2.32.0-1.amzn2.0.1.x86_64
--> Running transaction check
--> Package emacs-filesystem.noarch 1:27.2-4.amzn2.0.1 will be installed
--> Package git-core.x86_64 0:2.32.0-1.amzn2.0.1 will be installed
--> Package git-core-doc.noarch 0:2.32.0-1.amzn2.0.1 will be installed
--> Package perl-Git.noarch 0:2.32.0-1.amzn2.0.1 will be installed
--> Processing Dependency: perl(Error) for package: perl-Git-2.32.0-1.amzn2.0.1.noarch
--> Package perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2 will be installed
--> Running transaction check
--> Package perl-Error.noarch 1:0.17020-2.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
git x86_64 2.32.0-1.amzn2.0.1 amzn2-core 126 k
Installing for dependencies:
emacs-filesystem noarch 1:27.2-4.amzn2.0.1 amzn2-core 67 k
```

- Following commands, we have to run in git bash:
 - sudo yum -y update
 - sudo yum install git -y
 - git --version
 - sudo yum install java-1.8.0-openjdk
 - sudo yum install java-1.8.0-openjdk-devel
 - java -version
 - git clone <https://github.com/moulaalihujare/SpringBootEC2.git>
 - cd SpringBootEC2
 - ls

- `java -jar spring-boot-ec2.jar`
- Here spring boot application is running through the AWS EC2 instance, with receptive IP address.

MINGW64:/c/Users/moula/OneDrive/Desktop/Ec2 Jar File

```
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-11-200 ~]$ sudo yum -y update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00
No packages marked for update
[ec2-user@ip-172-31-11-200 ~]$
[ec2-user@ip-172-31-11-200 ~]$ sudo yum install git -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package git-2.32.0-1.amzn2.0.1.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-11-200 ~]$ java -version
openjdk version "1.8.0_312"
OpenJDK Runtime Environment (build 1.8.0_312-b07)
OpenJDK 64-bit Server VM (build 25.312-b07, mixed mode)
[ec2-user@ip-172-31-11-200 ~]$ git clone https://github.com/moulaalihujare/Spring-g-jar.git
fatal: destination path 'Spring-jar' already exists and is not an empty director
y.
[ec2-user@ip-172-31-11-200 ~]$ cd AC
[ec2-user@ip-172-31-11-200 ~]$ cd Spring-jar
[ec2-user@ip-172-31-11-200 Spring-jar]$ ls
project-5-springboot-0.0.1-SNAPSHOT.jar
[ec2-user@ip-172-31-11-200 Spring-jar]$ java -jar project-5-springboot-0.0.1-SNAPSHOT.jar
```



Spring Boot (v2.6.7)

```

2022-04-24 09:34:00.835 INFO 13985 --- [main] c.e.p.s.Project5SpringbootApplication : Starting Pr
ject5SpringbootApplication v0.1-SNAPSHOT using Java 1.8.0_312 on ip-172-31-11-200.ec2.internal with PID 13985
 (/home/ec2-user/Spring-jar/project-5-springboot-0.0.1-SNAPSHOT.jar started by ec2-user in /home/ec2-user/Spring
-jar)
2022-04-24 09:34:00.852 INFO 13985 --- [main] c.e.p.s.Project5SpringbootApplication : No active p
rofile set, falling back to 1 default profile: "default"
2022-04-24 09:34:03.571 INFO 13985 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat init
ialized with port(s): 8181 (http)
2022-04-24 09:34:03.599 INFO 13985 --- [main] o.apache.catalina.core.StandardService : Starting se
rvice [Tomcat]
2022-04-24 09:34:03.604 INFO 13985 --- [main] org.apache.catalina.core.StandardEngine : Starting Se
rvlet engine: [Apache Tomcat/9.0.62]
2022-04-24 09:34:03.757 INFO 13985 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializin
g Spring embedded WebApplicationContext
2022-04-24 09:34:03.763 INFO 13985 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApp
licationContext: initialization completed in 2721 ms
2022-04-24 09:34:04.208 INFO 13985 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat star
ted on port(s): 8181 (http with context path '')
2022-04-24 09:34:05.286 INFO 13985 --- [main] c.e.p.s.Project5SpringbootApplication : Started Pro
ject5SpringbootApplication in 6.043 seconds (JVM running for 7.072)
Spring Boot Web-App Console is working ..
client_loop: send disconnect: Connection reset by peer

```

```
Moulaali@LAPTOP-36LOP7V4 MINGW64 ~/OneDrive/Desktop/Ec2 Jar File (master)
```

ec2-user@ip-172-31-21-19:~/Spring-jar

```
OpenJDK 64-Bit Server VM (build 25.312-b07, mixed mode)
[ec2-user@ip-172-31-21-19 ~]$ git clone https://github.com/moulaaliuhajera/Spring-jar.git
Cloning into 'Spring-jar'...
remote: Enumerating objects: 100% (3/3), done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), 15.04 MiB | 33.69 MiB/s, done.
[ec2-user@ip-172-31-21-19 ~]$ cd Spring-jar
[ec2-user@ip-172-31-21-19 ~]$ cd Spring-jar $ ls
project-springboot-0.0.1-SNAPSHOT.jar
[ec2-user@ip-172-31-21-19 Spring-jar]$ java -jar project-springboot-0.0.1-SNAPSHOT.jar
```

```

  (C) 2013-2014, 2016-2017, 2019-2020, 2021-2022, 2023-2024, 2025-2026, 2027-2028, 2029-2030, 2031-2032, 2033-2034, 2035-2036, 2037-2038, 2039-2040, 2041-2042, 2043-2044, 2045-2046, 2047-2048, 2049-2050, 2051-2052, 2053-2054, 2055-2056, 2057-2058, 2059-2060, 2061-2062, 2063-2064, 2065-2066, 2067-2068, 2069-2070, 2071-2072, 2073-2074, 2075-2076, 2077-2078, 2079-2080, 2081-2082, 2083-2084, 2085-2086, 2087-2088, 2089-2090, 2091-2092, 2093-2094, 2095-2096, 2097-2098, 2099-2100, 2101-2102, 2103-2104, 2105-2106, 2107-2108, 2109-2110, 2111-2112, 2113-2114, 2115-2116, 2117-2118, 2119-2120, 2121-2122, 2123-2124, 2125-2126, 2127-2128, 2129-2130, 2131-2132, 2133-2134, 2135-2136, 2137-2138, 2139-2140, 2141-2142, 2143-2144, 2145-2146, 2147-2148, 2149-2150, 2151-2152, 2153-2154, 2155-2156, 2157-2158, 2159-2160, 2161-2162, 2163-2164, 2165-2166, 2167-2168, 2169-2170, 2171-2172, 2173-2174, 2175-2176, 2177-2178, 2179-2180, 2181-2182, 2183-2184, 2185-2186, 2187-2188, 2189-2190, 2191-2192, 2193-2194, 2195-2196, 2197-2198, 2199-2200, 2201-2202, 2203-2204, 2205-2206, 2207-2208, 2209-2210, 2211-2212, 2213-2214, 2215-2216, 2217-2218, 2219-2220, 2221-2222, 2223-2224, 2225-2226, 2227-2228, 2229-2230, 2231-2232, 2233-2234, 2235-2236, 2237-2238, 2239-2240, 2241-2242, 2243-2244, 2245-2246, 2247-2248, 2249-2250, 2251-2252, 2253-2254, 2255-2256, 2257-2258, 2259-2260, 2261-2262, 2263-2264, 2265-2266, 2267-2268, 2269-2270, 2271-2272, 2273-2274, 2275-2276, 2277-2278, 2279-2280, 2281-2282, 2283-2284, 2285-2286, 2287-2288, 2289-2290, 2291-2292, 2293-2294, 2295-2296, 2297-2298, 2299-2300, 2301-2302, 2303-2304, 2305-2306, 2307-2308, 2309-2310, 2311-2312, 2313-2314, 2315-2316, 2317-2318, 2319-2320, 2321-2322, 2323-2324, 2325-2326, 2327-2328, 2329-2330, 2331-2332, 2333-2334, 2335-2336, 2337-2338, 2339-2340, 2341-2342, 2343-2344, 2345-2346, 2347-2348, 2349-2350, 2351-2352, 2353-2354, 2355-2356, 2357-2358, 2359-2360, 2361-2362, 2363-2364, 2365-2366, 2367-2368, 2369-2370, 2371-2372, 2373-2374, 2375-2376, 2377-2378, 2379-2380, 2381-2382, 2383-2384, 2385-2386, 2387-2388, 2389-2390, 2391-2392, 2393-2394, 2395-2396, 2397-2398, 2399-2400, 2401-2402, 2403-2404, 2405-2406, 2407-2408, 2409-2410, 2411-2412, 2413-2414, 2415-2416, 2417-2418, 2419-2420, 2421-2422, 2423-2424, 2425-2426, 2427-2428, 2429-2430, 2431-2432, 2433-2434, 2435-2436, 2437-2438, 2439-2440, 2441-2442, 2443-2444, 2445-2446, 2447-2448, 2449-2450, 2451-2452, 2453-2454, 2455-2456, 2457-2458, 2459-2460, 2461-2462, 2463-2464, 2465-2466, 2467-2468, 2469-2470, 2471-2472, 2473-2474, 2475-2476, 2477-2478, 2479-2480, 2481-2482, 2483-2484, 2485-2486, 2487-2488, 2489-2490, 2491-2492, 2493-2494, 2495-2496, 2497-2498, 2499-2500, 2501-2502, 2503-2504, 2505-2506, 2507-2508, 2509-2510, 2511-2512, 2513-2514, 2515-2516, 2517-2518, 2519-2520, 2521-2522, 2523-2524, 2525-2526, 2527-2528, 2529-2530, 2531-2532, 2533-2534, 2535-2536, 2537-2538, 2539-2540, 2541-2542, 2543-2544, 2545-2546, 2547-2548, 2549-2550, 2551-2552, 2553-2554, 2555-2556, 2557-2558, 2559-2560, 2561-2562, 2563-2564, 2565-2566, 2567-2568, 2569-2570, 2571-2572, 2573-2574, 2575-2576, 2577-2578, 2579-2580, 2581-2582, 2583-2584, 2585-2586, 2587-2588, 2589-2590, 2591-2592, 2593-2594, 2595-2596, 2597-2598, 2599-2600, 2601-2602, 2603-2604, 2605-2606, 2607-2608, 2609-2610, 2611-2612, 2613-2614, 2615-2616, 2617-2618, 2619-2620, 2621-2622, 2623-2624, 2625-2626, 2627-2628, 2629-2630, 2631-2632, 2633-2634, 2635-2636, 2637-2638, 2639-2640, 2641-2642, 2643-2644, 2645-2646, 2647-2648, 2649-2650, 2651-2652, 2653-2654, 2655-2656, 2657-2658, 2659-2660, 2661-2662, 2663-2664, 2665-2666, 2667-2668, 2669-2670, 2671-2672, 2673-2674, 2675-2676, 2677-2678, 2679-2680, 2681-2682, 2683-2684, 2685-2686, 2687-2688, 2689-2690, 2691-2692, 2693-2694, 2695-2696, 2697-2698, 2699-2700, 2701-2702, 2703-2704, 2705-2706, 2707-2708, 2709-2710, 2711-2712, 2713-2714, 2715-2716, 2717-2718, 2719-2720, 2721-2722, 2723-2724, 2725-2726, 2727-2728, 2729-2730, 2731-2732, 2733-2734, 2735-2736, 2737-2738, 2739-2740, 2741-2742, 2743-2744, 2745-2746, 2747-2748, 2749-2750, 2751-2752, 2753-2754, 2755-2756, 2757-27
```

```

2022-04-24 10:54:45.626 INFO 4787 [ main] c.e.p.s.Project5SpringbootApplication : Starting Project5SpringbootAp
lication v0.0.1-SNAPSHOT using Java 1.8.0_312 on ip-172-31-21-19.ec2.internal with PID 4787 (/home/ec2-user/Spring-jar/project-5spr
ingboot-0.0.1-SNAPSHOT.jar started by ec2-user in /home/ec2-user/Spring-jar)
2022-04-24 10:54:45.635 INFO 4787 --- [ main] c.e.p.s.Project5SpringbootApplication : No active profile set, falling
back to 1 default profile: "default"
2022-04-24 10:54:48.436 INFO 4787 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s)
: 8181 (http)
2022-04-24 10:54:48.468 INFO 4787 --- [ main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-04-24 10:54:48.468 INFO 4787 --- [ main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apach
e Tomcat/9.0.62]
2022-04-24 10:54:48.626 INFO 4787 --- [ main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded We
bApplicationContext
2022-04-24 10:54:48.627 INFO 4787 --- [ main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: ini
tialization completed in 2823 ms
2022-04-24 10:54:50.060 INFO 4787 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8181
(http) with context path ''
2022-04-24 10:54:50.135 INFO 4787 --- [ main] c.e.p.s.Project5SpringbootApplication : Started Project5SpringbootAppli
cation in 5.933 seconds (JVM running for 6.904)
2022-04-24 10:55:40.743 INFO 4787 --- [nio-8181-exec-1] o.apache.coyote.http11.HttpProcessor : Error parsing HTTP request header
Note: further occurrences of HTTP request parsing errors will be logged at DEBUG level.

java.lang.IllegalArgumentException: Invalid character found in method name [0x160x030x010x020x000x010x000x010xfc0x030x03 0xd7]0xf30xe80xec0f
]. HTTP method names must be tokens
at org.apache.coyote.http11.HttpInputBuffer.parseRequestLine(HttpInputBuffer.java:419) ~[tomcat-embed-core-9.0.62.jar!/:na]
at org.apache.coyote.http11.HttpProcessor.service(HttpProcessor.java:274) ~[tomcat-embed-core-9.0.62.jar!/:na]
at org.apache.catalina.core.AbstractProcessorLight.process(AbstractProcessorLight.java:65) [tomcat-embed-core-9.0.62.jar!/:na]
at org.apache.coyote.AbstractProtocolConnectionHandler.process(AbstractProtocol.java:890) [tomcat-embed-core-9.0.62.jar!/:na]
at org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.doRun(NioEndpoint.java:1743) [tomcat-embed-core-9.0.62.jar!/:na]
at org.apache.tomcat.util.net.SocketProcessorBase.run(SocketProcessorBase.java:49) [tomcat-embed-core-9.0.62.jar!/:na]
at org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1191) [tomcat-embed-core-9.0.62.jar!/:na]
at org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63) [tomcat-embed-core-9.0.62.jar!/:na]
at java.lang.Thread.run(Thread.java:748) [na:1.8.0_312]

```

- Next go to given the Public IPv4 address:

services, features, blogs, docs, and more [Alt+S]

EC2 > Instances > i-01d8a72ce47fc7e25

Instance summary for i-01d8a72ce47fc7e25 (jar-launch-instance) [Info](#)

Updated less than a minute ago

Instance ID i-01d8a72ce47fc7e25 (jar-launch-instance)	Public IPv4 address 34.229.157.141 open address
IPv6 address -	Instance state Running
Hostname type IP name: ip-172-31-21-19.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-21-19.ec2.internal
Instance type t2.micro	Elastic IP addresses -
VPC ID vpc-06bc4b3552b054709	AWS Compute Optimizer finding ⊗ User: arn:aws:sts::720697014680:assumed-role/Corestack_Role/moulaali.hujare_mphasis is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * with an explicit deny in a service control policy Retry

- Application is running on respective IP Address:

Moulaali Assessment x +

34.229.157.141:8181/

MOULAALI

SPRING-BOOT Web App

As requested by management, this is my final product stage, demonstrating the automated, integrated, and deployed spring-boot web application.

This is an environment where the application is hosted and accessed by users. The following were used in its development:

- Eclipse
- GitHub
- Jenkins
- AWS EC2/ Virtual machine

Feel free to contact Moulaali with any new requests or upgrades to this product!