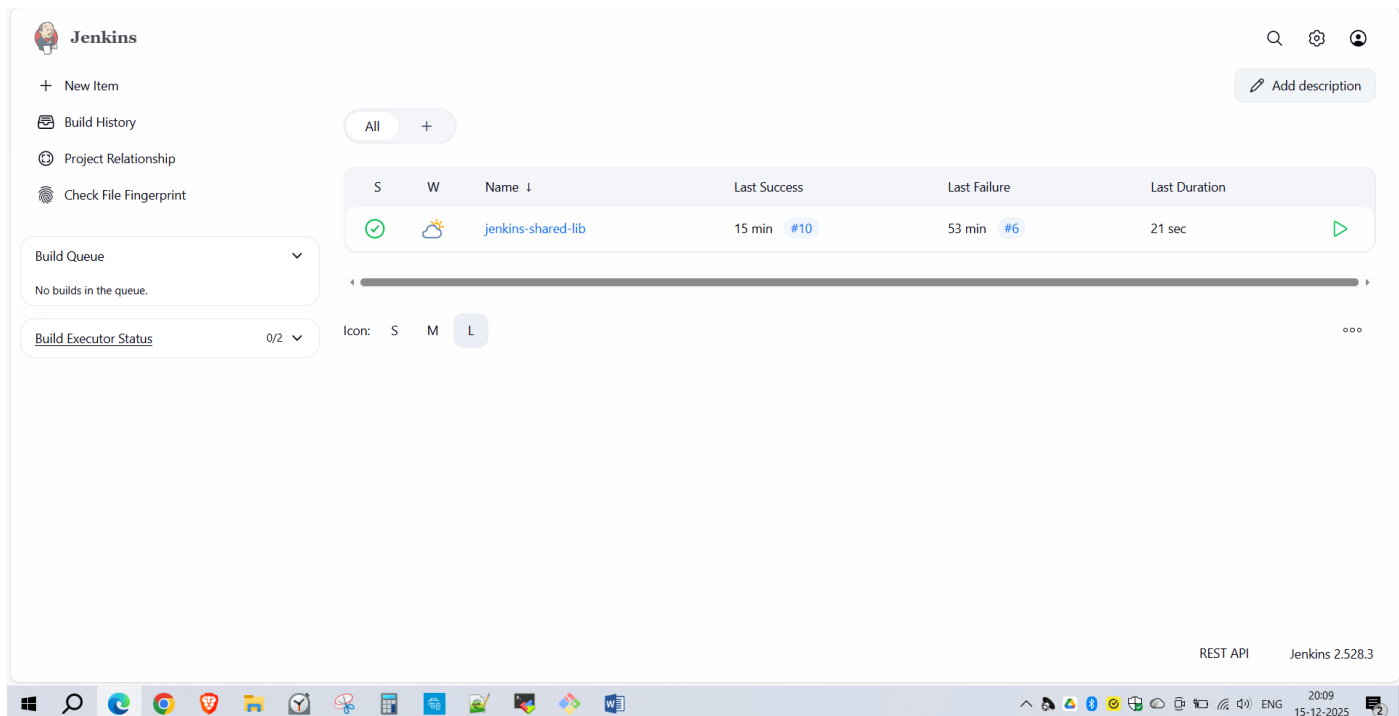


Jenkins Shared Libraries

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Jenkins Pipeline Job Using Shared Libraries:

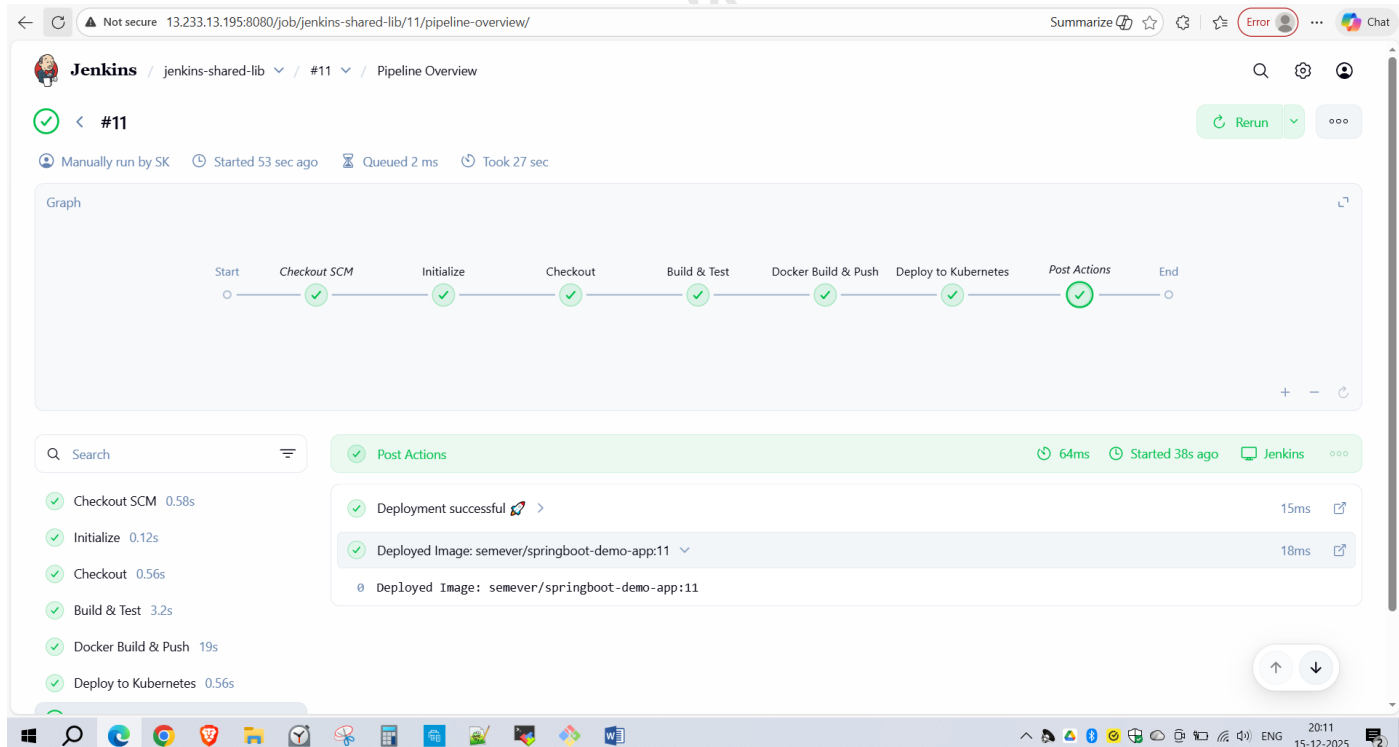


The screenshot shows the Jenkins dashboard. On the left, there's a sidebar with 'New Item', 'Build History', 'Project Relationship', and 'Check File Fingerprint'. The main area displays a table of builds for the 'jenkins-shared-lib' job. The table has columns for 'S' (Status), 'W' (Webhook), 'Name', 'Last Success', 'Last Failure', and 'Last Duration'. The 'jenkins-shared-lib' job is shown with a status of 'Success' (green checkmark) and a duration of '21 sec'. Below the table, there's a 'Build Queue' section showing 'No builds in the queue.' and a 'Build Executor Status' section showing '0/2'.

| S | W | Name ↓ | Last Success | Last Failure | Last Duration |
|---|---|--------------------|--------------|--------------|---------------|
| ✓ | ☁ | jenkins-shared-lib | 15 min #10 | 53 min #6 | 21 sec |

REST API Jenkins 2.528.3

Standardized Pipeline Job Execution Across Stages Using Centralized Shared Libraries:



The screenshot shows the Jenkins Pipeline Overview for the 'jenkins-shared-lib' job, build #11. The pipeline is a linear sequence of stages: Start, Checkout SCM, Initialize, Checkout, Build & Test, Docker Build & Push, Deploy to Kubernetes, Post Actions, and End. All stages are marked with green checkmarks, indicating successful execution. The 'Post Actions' stage is expanded, showing a 'Deployment successful' message and a 'Deployed Image: semever/springboot-demo-app:11'.

Graph

```
graph LR; Start((Start)) --> CheckoutSCM((Checkout SCM)); CheckoutSCM --> Initialize((Initialize)); Initialize --> Checkout((Checkout)); Checkout --> BuildTest((Build & Test)); BuildTest --> DockerBuildPush((Docker Build & Push)); DockerBuildPush --> DeployKubernetes((Deploy to Kubernetes)); DeployKubernetes --> PostActions((Post Actions)); PostActions --> End((End));
```

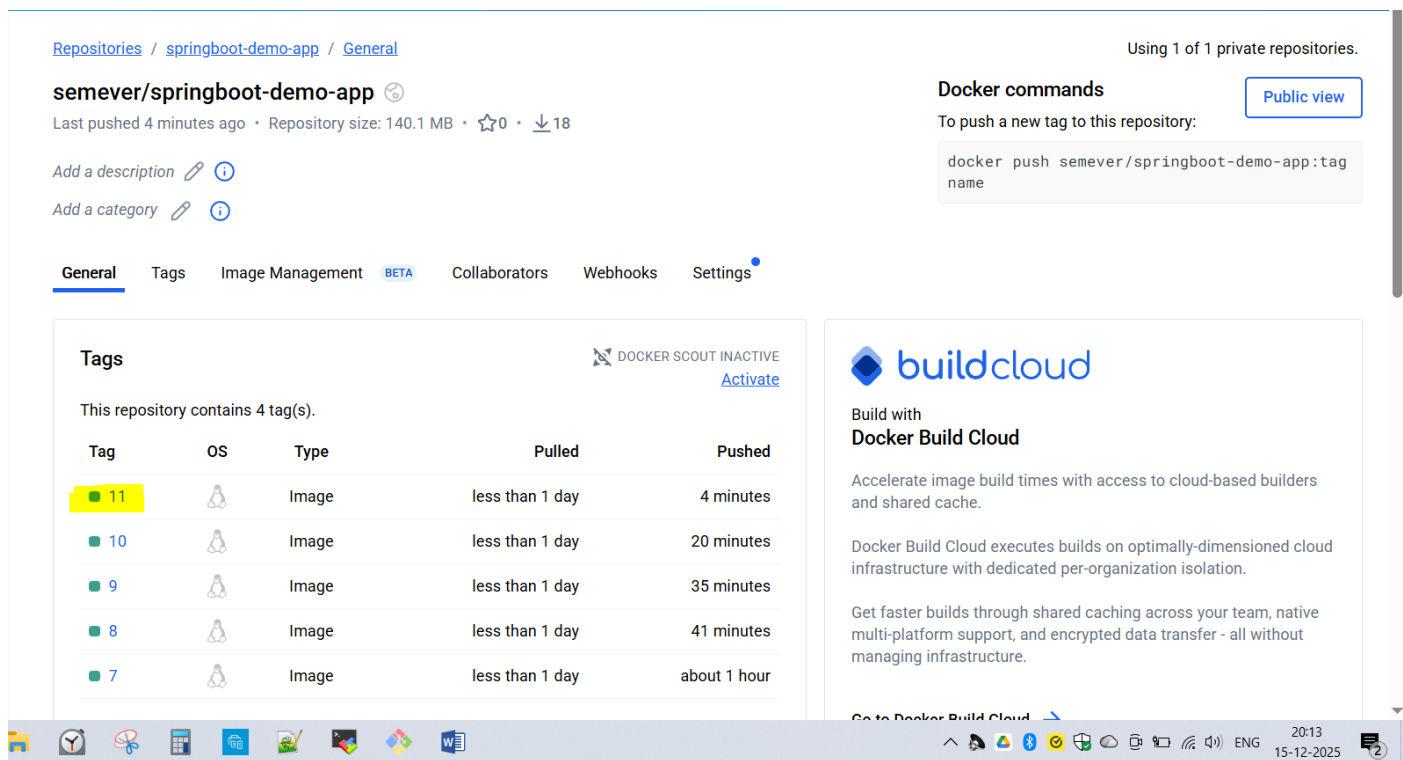
Search

- ✓ Checkout SCM 0.58s
- ✓ Initialize 0.12s
- ✓ Checkout 0.56s
- ✓ Build & Test 3.2s
- ✓ Docker Build & Push 19s
- ✓ Deploy to Kubernetes 0.56s

Post Actions

- ✓ Deployment successful 15ms
- ✓ Deployed Image: semever/springboot-demo-app:11 18ms

Docker Image Published to Docker Hub Registry:

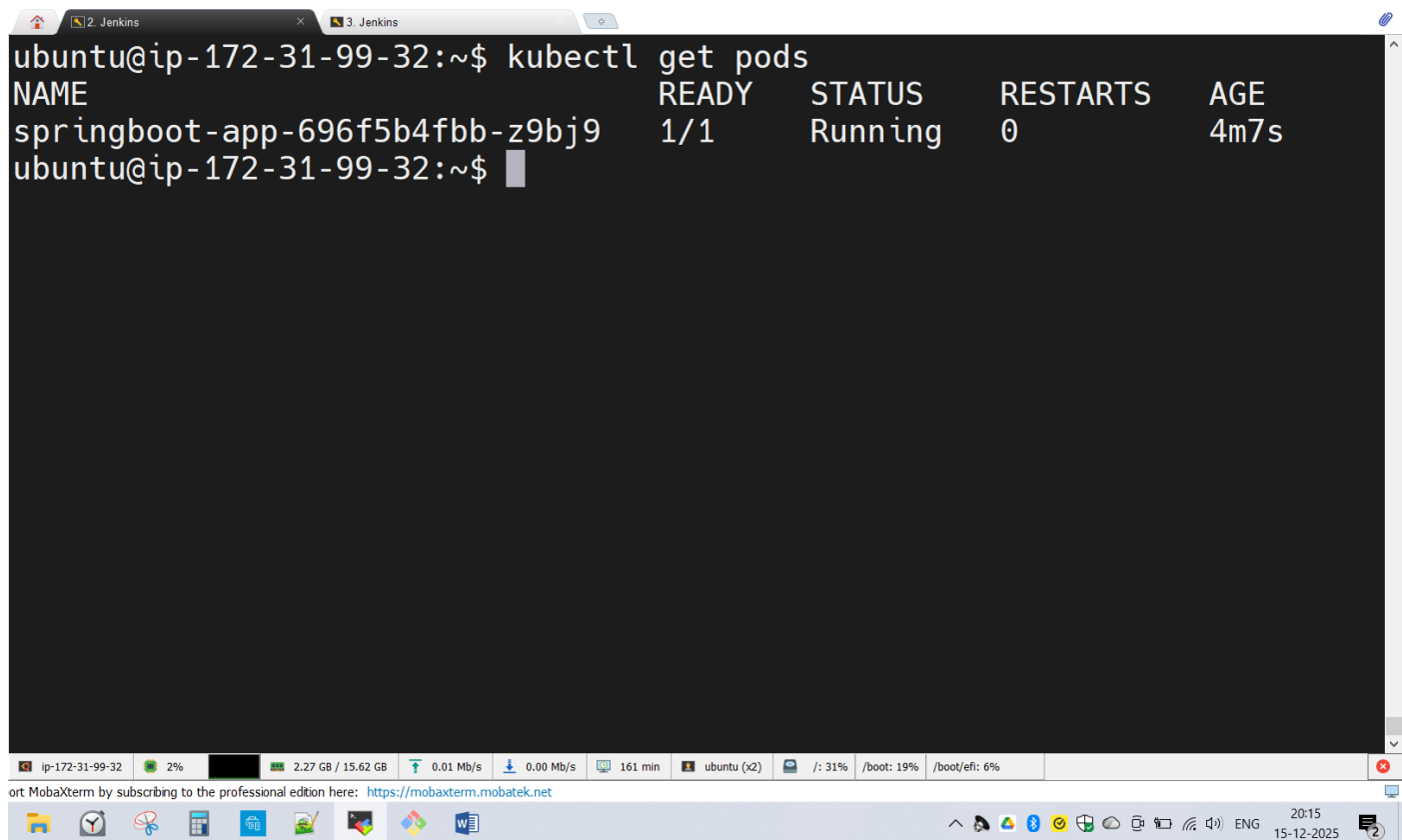


The screenshot shows the Docker Hub repository page for `semever/springboot-demo-app`. The repository is public and has 18 downloads. It contains 4 tags. The tags table is as follows:

| Tag | OS | Type | Pulled | Pushed |
|-----|-------|-------|-----------------|--------------|
| 11 | linux | Image | less than 1 day | 4 minutes |
| 10 | linux | Image | less than 1 day | 20 minutes |
| 9 | linux | Image | less than 1 day | 35 minutes |
| 8 | linux | Image | less than 1 day | 41 minutes |
| 7 | linux | Image | less than 1 day | about 1 hour |

On the right, there is a section for Docker commands and a Docker Build Cloud badge. The Docker commands section shows the command to push a new tag: `docker push semever/springboot-demo-app:tag name`. The Docker Build Cloud badge promotes building with Docker Build Cloud, highlighting faster builds through shared caching and multi-platform support.

Application Deployed to Kubernetes Cluster Using Images Pulled from Docker Hub:

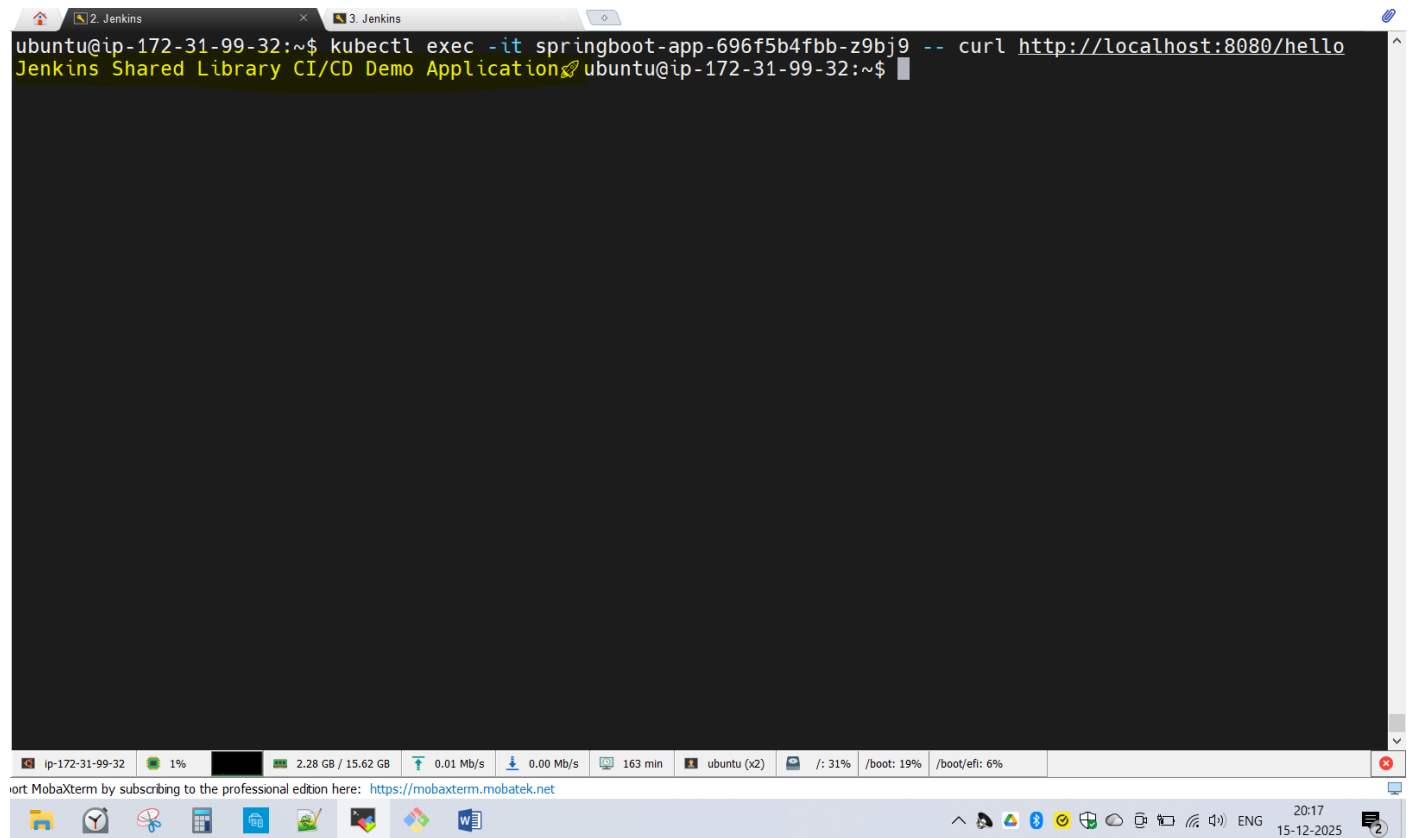


The screenshot shows a terminal window with the command `kubectl get pods` executed. The output shows a single pod named `springboot-app-696f5b4fbb-z9bj9` in a `Running` state with 0 restarts and an age of 4m7s.

```
ubuntu@ip-172-31-99-32:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
springboot-app-696f5b4fbb-z9bj9    1/1     Running   0           4m7s
ubuntu@ip-172-31-99-32:~$
```

The terminal window is titled "2. Jenkins" and "3. Jenkins". The bottom status bar shows the system is running on `ip-172-31-99-32` with 2% CPU usage, 2.27 GB / 15.62 GB memory usage, and 0.01 Mb/s network speed. The system is running Ubuntu (x2) with 161 min uptime. The disk usage is 31% for `/`, 19% for `/boot`, and 6% for `/boot/efi`.

Successful Application Response Confirmed through curl Command:



The screenshot shows a terminal window titled "Jenkins" with the following command and output:

```
ubuntu@ip-172-31-99-32:~$ kubectl exec -it springboot-app-696f5b4fbb-z9bj9 -- curl http://localhost:8080/hello
Jenkins Shared Library CI/CD Demo Application ubuntu@ip-172-31-99-32:~$
```

The terminal window is part of a MobaXterm session. The status bar at the bottom shows the following information:

- Host: ip-172-31-99-32
- RAM: 2.28 GB / 15.62 GB
- Network: 0.01 Mb/s
- Download: 0.00 Mb/s
- Time: 163 min
- OS: ubuntu (x2)
- File System: /: 31% /boot: 19% /boot/efi: 6%

The taskbar at the bottom of the screen shows various application icons, including a file explorer, a clock, a terminal, and a web browser. The system clock indicates the time is 20:17 on 15-12-2025.

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