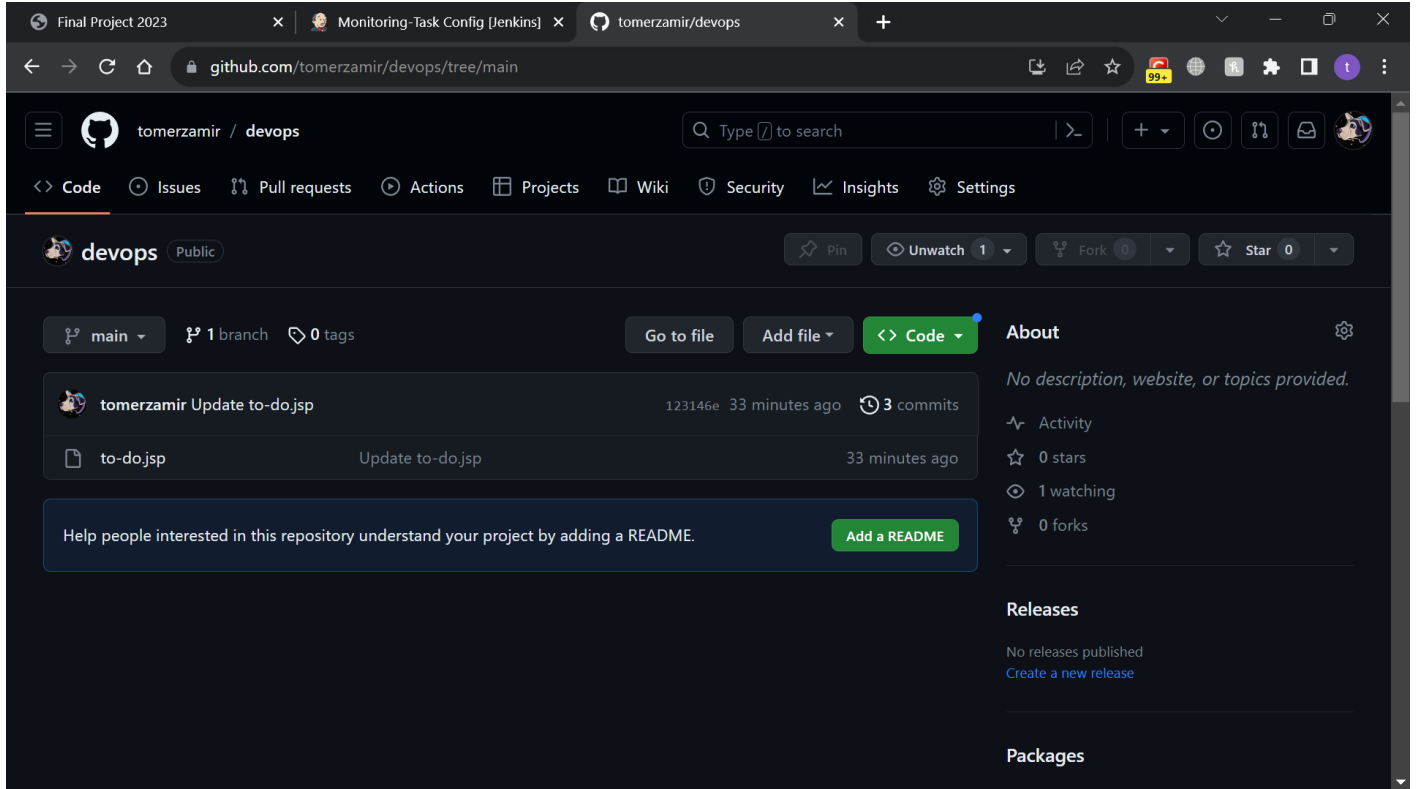
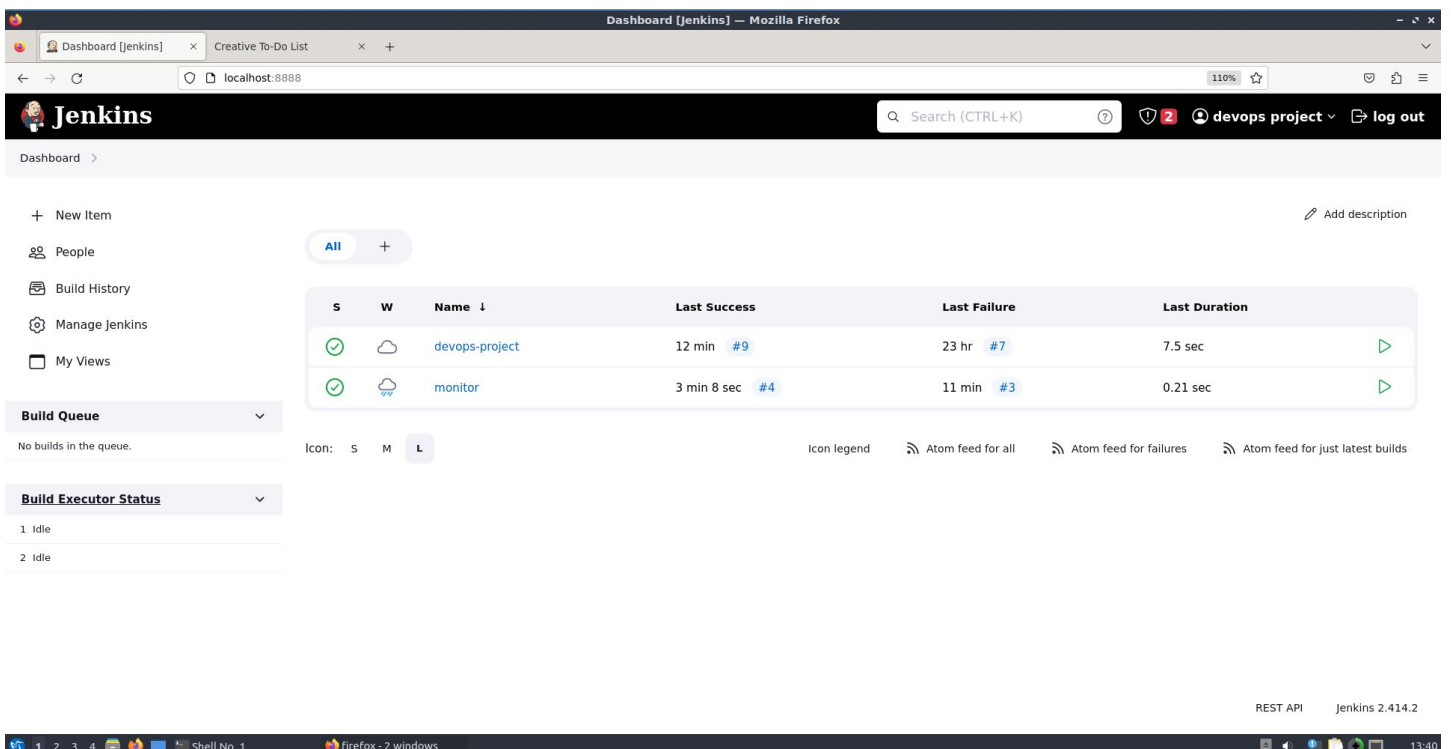


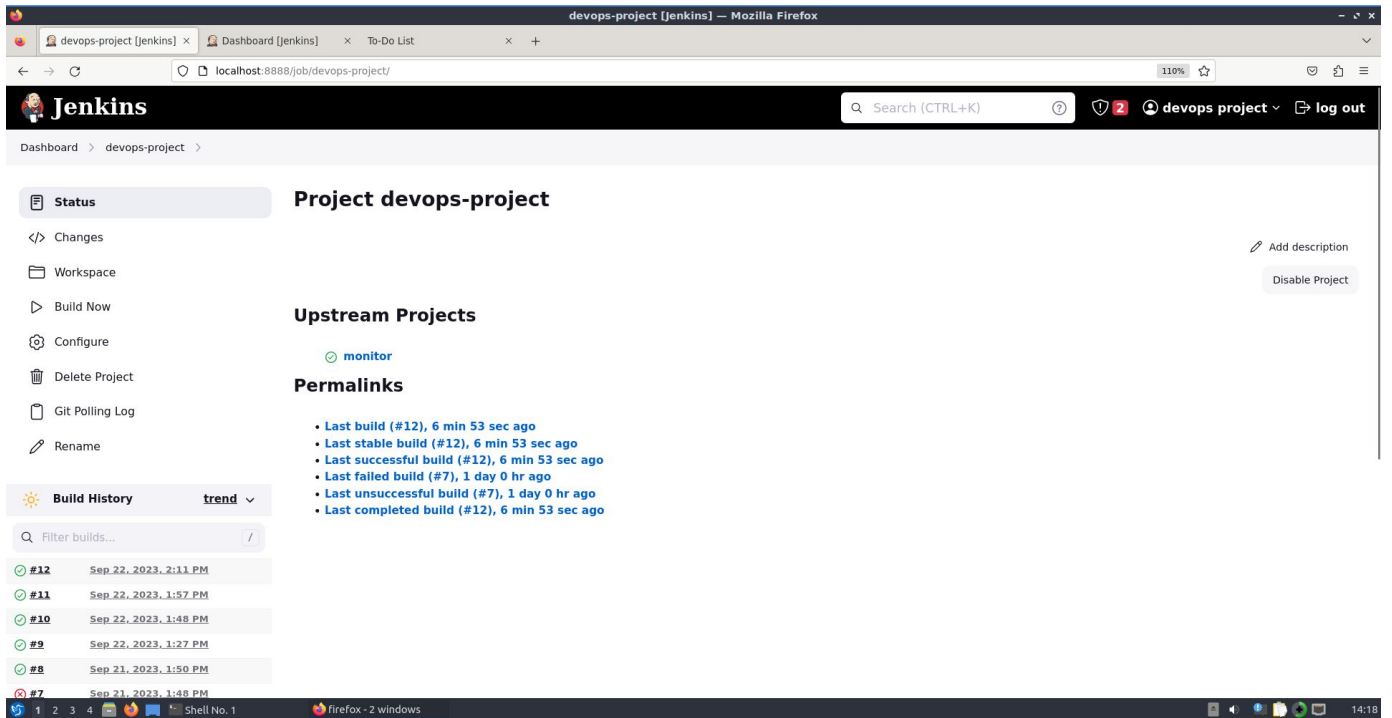
DevOps Project.



<https://github.com/tomerzamor/devops>



Primary job:



Project devops-project

Upstream Projects

monitor

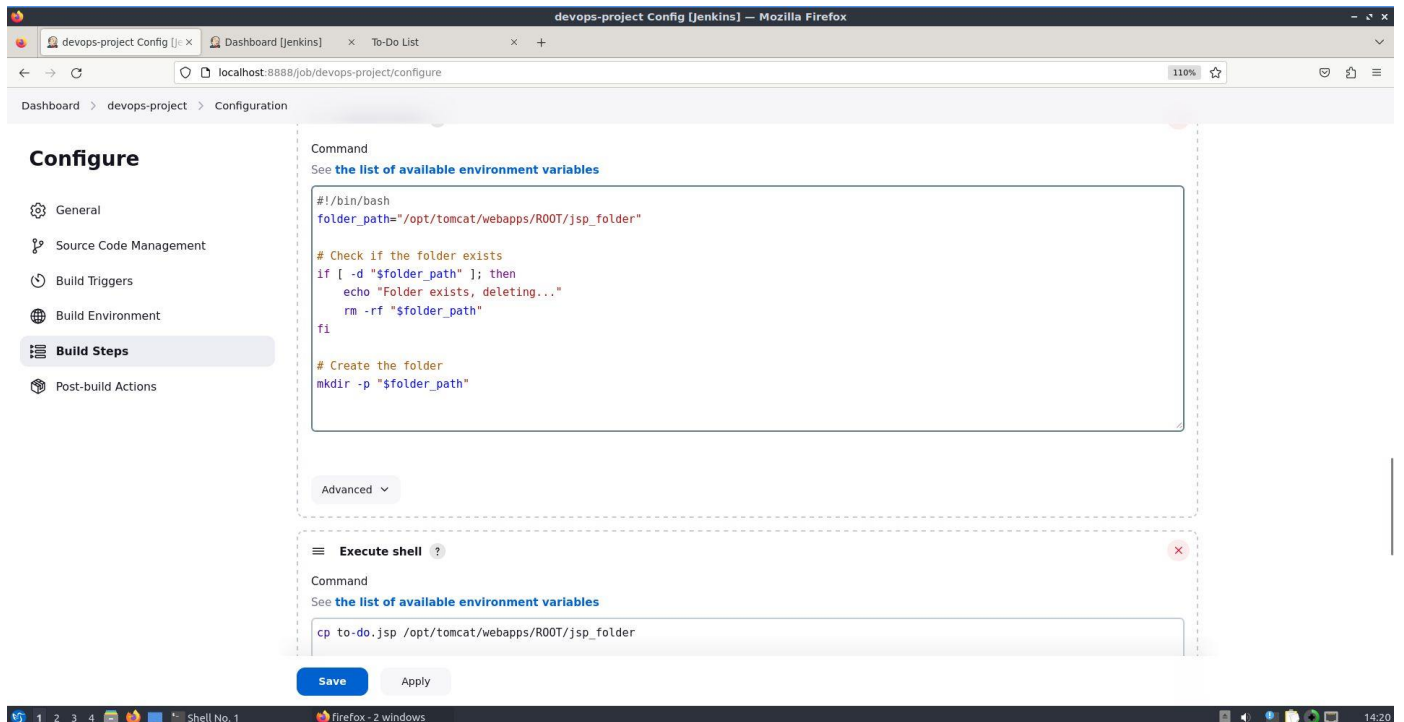
Permalinks

- Last build (#12), 6 min 53 sec ago
- Last stable build (#12), 6 min 53 sec ago
- Last successful build (#12), 6 min 53 sec ago
- Last failed build (#7), 1 day 0 hr ago
- Last unsuccessful build (#7), 1 day 0 hr ago
- Last completed build (#12), 6 min 53 sec ago

Build History trend

Build	Timestamp
#12	Sep 22, 2023, 2:11 PM
#11	Sep 22, 2023, 1:57 PM
#10	Sep 22, 2023, 1:48 PM
#9	Sep 22, 2023, 1:27 PM
#8	Sep 21, 2023, 1:50 PM
#7	Sep 21, 2023, 1:48 PM

Configuration – create new folder and pull jsp file from git:



Configure

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Command

See [the list of available environment variables](#)

```
#!/bin/bash
folder_path="/opt/tomcat/webapps/ROOT/jsp_folder"

# Check if the folder exists
if [ -d "$folder_path" ]; then
    echo "Folder exists, deleting..."
    rm -rf "$folder_path"
fi

# Create the folder
mkdir -p "$folder_path"
```

Advanced

Execute shell

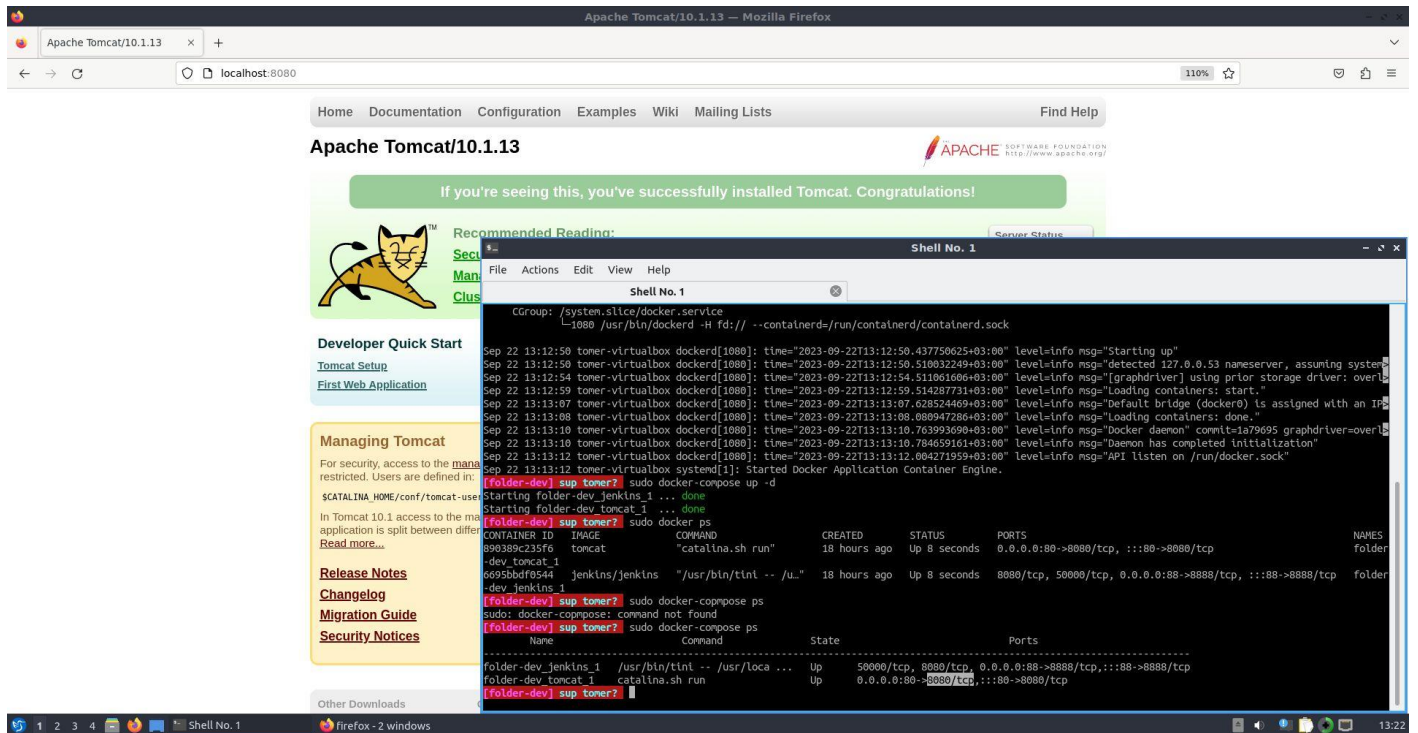
Command

See [the list of available environment variables](#)

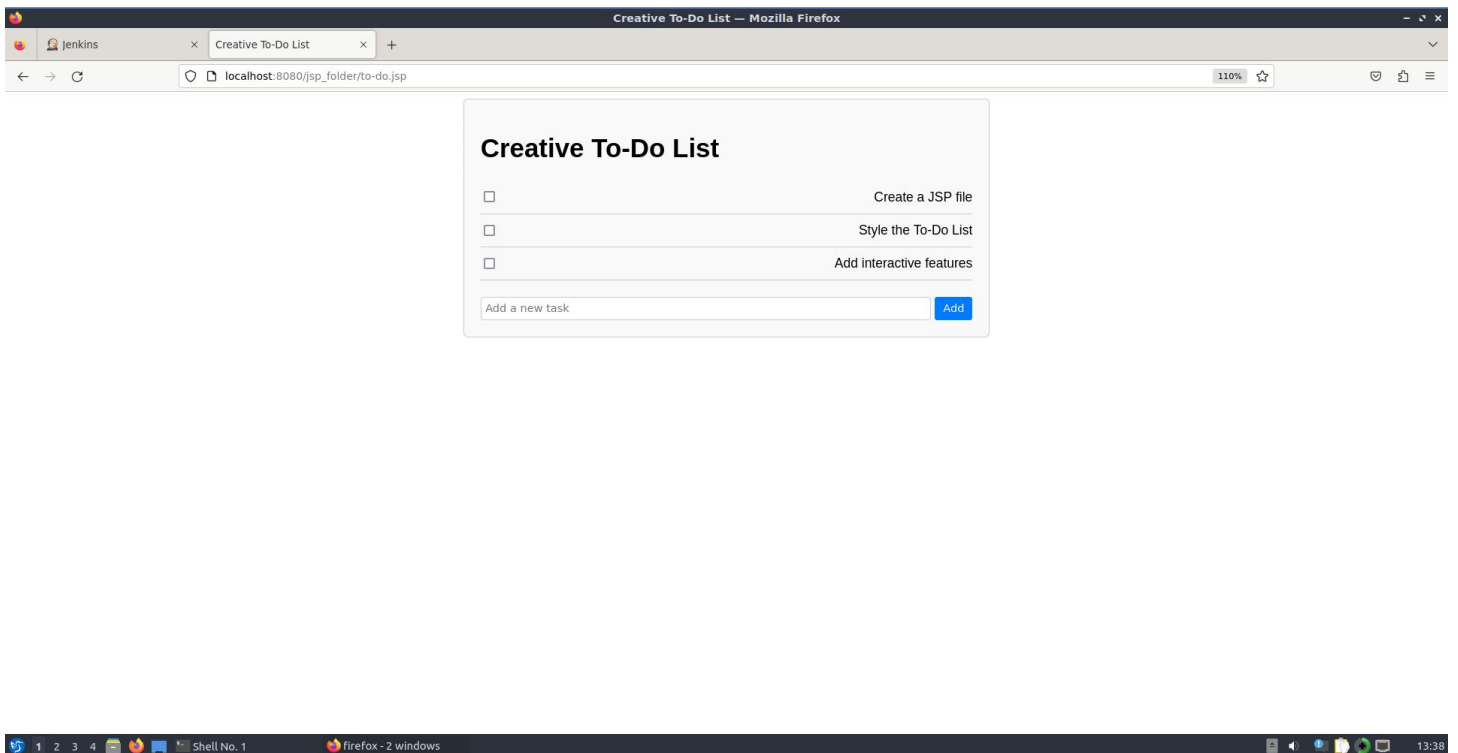
```
cp to-do.jsp /opt/tomcat/webapps/ROOT/jsp_folder
```

Save Apply

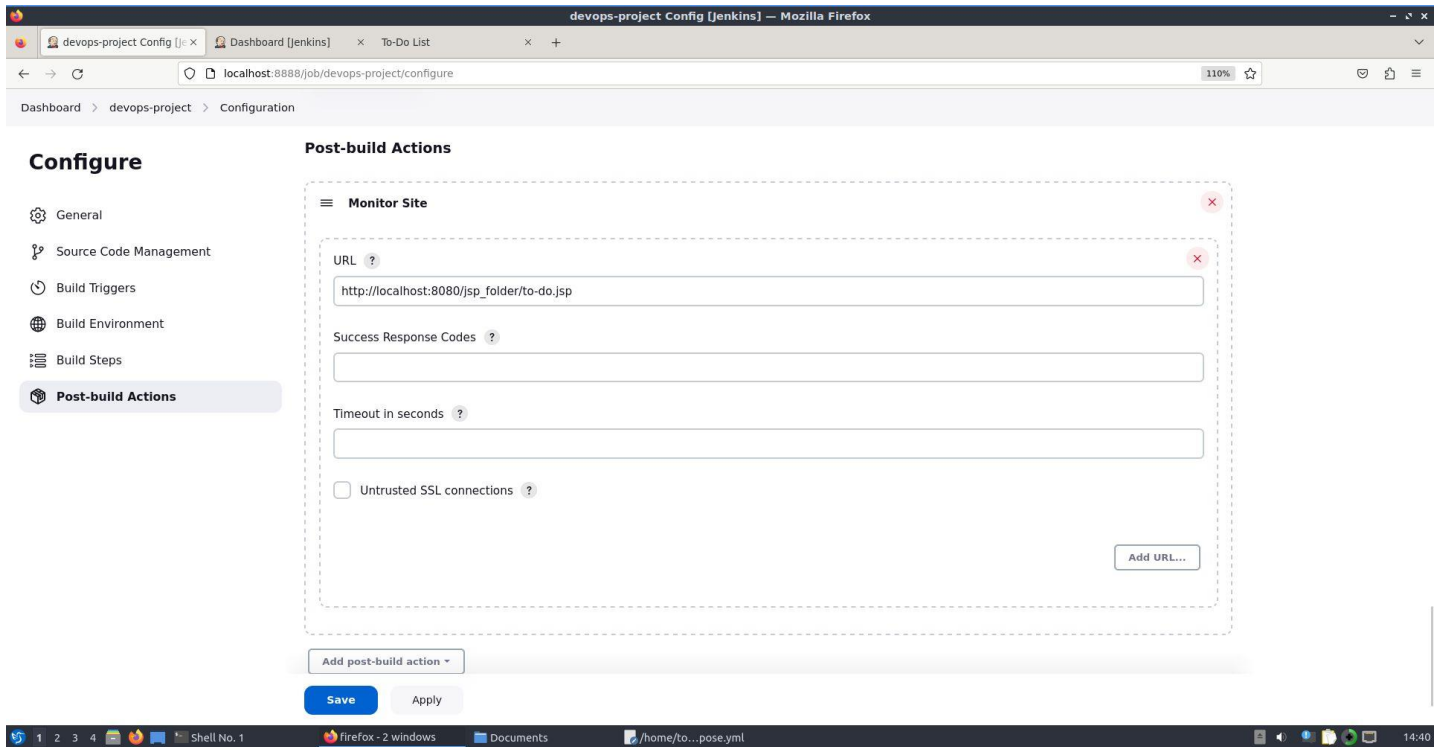
Tomcat up and running:



web-app up and running:



First monitor configuration – using SiteMonitor Plugin:

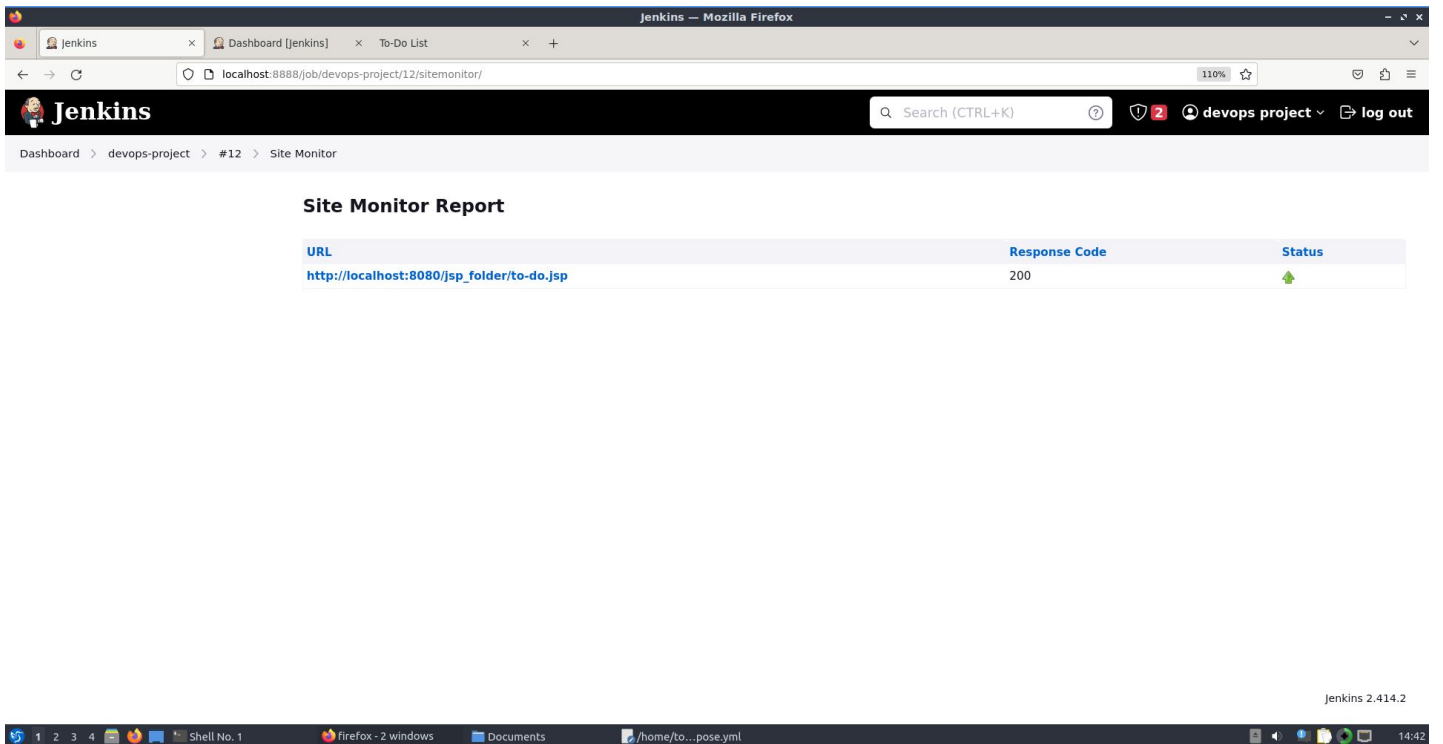


The screenshot shows the Jenkins configuration page for a job named 'devops-project'. The 'Post-build Actions' section is expanded, and the 'Monitor Site' plugin is configured with the following details:

- URL:** `http://localhost:8080/jsp_folder/to-do.jsp`
- Success Response Codes:** (Empty field)
- Timeout in seconds:** (Empty field)
- Untrusted SSL connections:** (Unchecked checkbox)

Buttons for 'Save' and 'Apply' are visible at the bottom of the configuration section.

first monitor result:



The screenshot shows the Jenkins dashboard for the 'devops-project' job, specifically the 'Site Monitor' view. It displays a 'Site Monitor Report' table with the following data:

URL	Response Code	Status
<code>http://localhost:8080/jsp_folder/to-do.jsp</code>	200	🟢

The status is indicated by a green upward arrow icon. The Jenkins version 2.414.2 is noted in the bottom right corner.

תומר זמיר ת.ז: 316123181
סער גרי ת.ז: 208668558

Build starts automatically after changes to the git repository:

The screenshot shows the Jenkins web interface in a Mozilla Firefox browser. The address bar indicates the URL is `localhost:8888/job/devops-project/11/`. The Jenkins logo and navigation menu are at the top. The main content area displays the status of Build #11, which completed on September 22, 2023, at 1:57:09 PM. A green checkmark icon indicates a successful build. The build was triggered by a change in the code, specifically an update to `to-do.jsp`. The SCM (Source Control Management) section shows the build started by an SCM change, with the revision `123146e143c47201ff2813a0a78f2a0bd6399939` from the repository `https://github.com/tomerzamir/devops.git`. The build took 4.8 seconds and started 55 minutes ago. The left sidebar contains links to various build details like Changes, Console Output, and Site Monitor Report. The bottom of the screen shows the Windows taskbar with several open applications.

Updated web-app:

The screenshot shows the 'Creative To-Do List' web application running in a Mozilla Firefox browser. The address bar indicates the URL is `localhost:8080/jsp_folder/to-do.jsp`. The application has a clean, modern design with a light gray background. It features a title 'Creative To-Do List' and a list of three tasks: 'get milk', 'drink milk', and 'go to sleep'. Each task is preceded by an unchecked checkbox. Below the list is an input field labeled 'Add a new task' and a blue 'Add' button. The bottom of the screen shows the Windows taskbar with several open applications.

תומר זמיר ת.ז: 316123181
סער נגרי ת.ז: 208668558

second job – monitor:

The screenshot shows the Jenkins web interface in a Mozilla Firefox browser. The address bar shows 'localhost:8888/job/monitor/'. The page title is 'monitor [Jenkins]'. The left sidebar contains a 'Status' section with links to Changes, Workspace, Build Now, Configure, Delete Project, Polling Log, and Rename. Below this is a 'Build History' section with a 'trend' dropdown and a search filter. The main content area is titled 'Project monitor' and includes a 'Downstream Projects' section with a link to 'devops-project'. Below that is a 'Permalinks' section with a list of build links: 'Last build (#5), 6 min 18 sec ago', 'Last stable build (#5), 6 min 18 sec ago', 'Last successful build (#5), 6 min 18 sec ago', 'Last failed build (#3), 48 min ago', 'Last unsuccessful build (#3), 48 min ago', and 'Last completed build (#5), 6 min 18 sec ago'. The bottom of the screen shows a Windows taskbar with various icons and a system tray displaying '31°C' and '2:18 PM 9/22/2023'.

second monitor configuration – different implementation:

The screenshot shows the Jenkins 'Configure' page for the 'monitor' job. The left sidebar contains a 'Configure' section with links to General, Source Code Management, Build Triggers, Build Environment, Build Steps, and Post-build Actions. The main content area is titled 'Build Steps' and contains a single step named 'Execute shell'. The 'Command' field for this step contains the following script:

```
#!/bin/bash

# Define the URL of the website you want to check
website_url="http://localhost:8080/jsp_folder/to-do.jsp"

# Use curl to send an HTTP GET request to the website
response=$(curl -IsS "$website_url" -o /dev/null -w "%{http_code}")

# Check the HTTP response code
if [ "$response" == "200" ]; then
    echo "Website $website_url is up and running (HTTP $response)"
else
    echo "Website $website_url is down (HTTP $response)"
fi
```

At the bottom of the configuration page, there are 'Save' and 'Apply' buttons. The bottom of the screen shows a Windows taskbar with various icons and a system tray displaying '14:13'.

תומר זמיר ת.ז: 316123181
סער נגרי ת.ז: 208668558

second monitor - check every minute:

The screenshot shows the Jenkins 'Configure' page for a job named 'monitor'. The left sidebar contains a menu with 'General', 'Source Code Management', 'Build Triggers', 'Build Environment', 'Build Steps', and 'Post-build Actions'. The 'Build Triggers' section is active, showing options for 'Trigger builds remotely', 'Build after other projects are built', 'Build periodically', 'GitHub hook trigger for GITScm polling', and 'Poll SCM' (which is checked). The 'Poll SCM' section has a 'Schedule' field with the value '*****'. A warning message below the field states: 'Do you really mean "every minute" when you say "*****"? Perhaps you meant "H*****" to poll once per hour. Would last have run at Friday, 22 September 2023 at 15:20:20 Israel Daylight Time; would next run at Friday, 22 September 2023 at 15:20:20 Israel Daylight Time.' The 'Build Environment' section is also visible below. At the bottom, there are 'Save' and 'Apply' buttons. The system tray at the very bottom shows the date and time as 3:22 PM on 9/22/2023.

second monitor result:

The screenshot shows the Jenkins 'Console Output' for a build of the 'monitor' job. The left sidebar contains a menu with 'Status', 'Changes', 'Console Output', 'View as plain text', 'Edit Build Information', 'Delete build '#5'', 'Site Monitor', and 'Previous Build'. The 'Console Output' section is active, showing a green checkmark icon and the text 'Console Output'. The output text is as follows: 'Started by user devops project', 'Running as SYSTEM', 'Building in workspace /var/lib/jenkins/workspace/monitor', '[monitor] \$ /bin/bash /tmp/jenkins2295265839064947864.sh', 'Website http://localhost:8080/jsp_folder/to-do.jsp is up and running (HTTP 200)', 'URL: http://localhost:8080/jsp_folder/to-do.jsp, response code: 200, status: UP', 'Triggering a new build of devops-project', and 'Finished: SUCCESS'. A red arrow points to the line 'Website http://localhost:8080/jsp_folder/to-do.jsp is up and running (HTTP 200)'. The top of the page shows the Jenkins logo, a search bar, and the user 'devops project' with a 'log out' button. The bottom of the page shows the REST API and Jenkins version 2.414.2.

docker ps + docker-compose.yml file:

The screenshot shows a Linux desktop environment with a file editor (likely Visual Studio Code) open to a file named `docker-compose.yml`. The file content is as follows:

```
services:
  jenkins:
    image: jenkins/jenkins
    ports:
      - "88:8080"
    volumes:
      - ./vol:/var/lib/jenkins/
  tomcat:
    image: tomcat
    ports:
      - "80:8080"
    volumes:
      - ./vol:/opt/tomcat/webapps/
version: "3"
```

The terminal window (Shell No. 1) displays the output of the command `sudo systemctl status docker`, showing that the Docker service is active and running. It also shows the output of `docker ps`, which lists the running containers:

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
890389c235f6	tomcat	"catalina.sh run"	19 hours ago	Up	About an hour 0.0.0.0:80->8080/tcp, :::80->8080/tcp
6695bdf0544	jenkins/jenkins	"/usr/bin/tini -- /u..."	19 hours ago	Up	About an hour 8080/tcp, 50000/tcp, 0.0.0.0:88->8888/tcp, :::88->8888/tcp
folder-dev_jenkins_1					

The terminal also shows the output of `docker-compose ps`, which lists the containers defined in the `docker-compose.yml` file:

Name	Command	State	Ports
folder-dev_jenkins_1	/usr/bin/tini -- /usr/loca ...	Up	50000/tcp, 8080/tcp, 0.0.0.0:88->8888/tcp, :::88->8888/tcp
folder-dev_tomcat_1	catalina.sh run	Up	0.0.0.0:80->8080/tcp, :::80->8080/tcp

The desktop environment is running Ubuntu 20.04, as indicated by the logo in the bottom right corner. The taskbar at the bottom shows the application list, including the file editor, terminal, and Firefox.