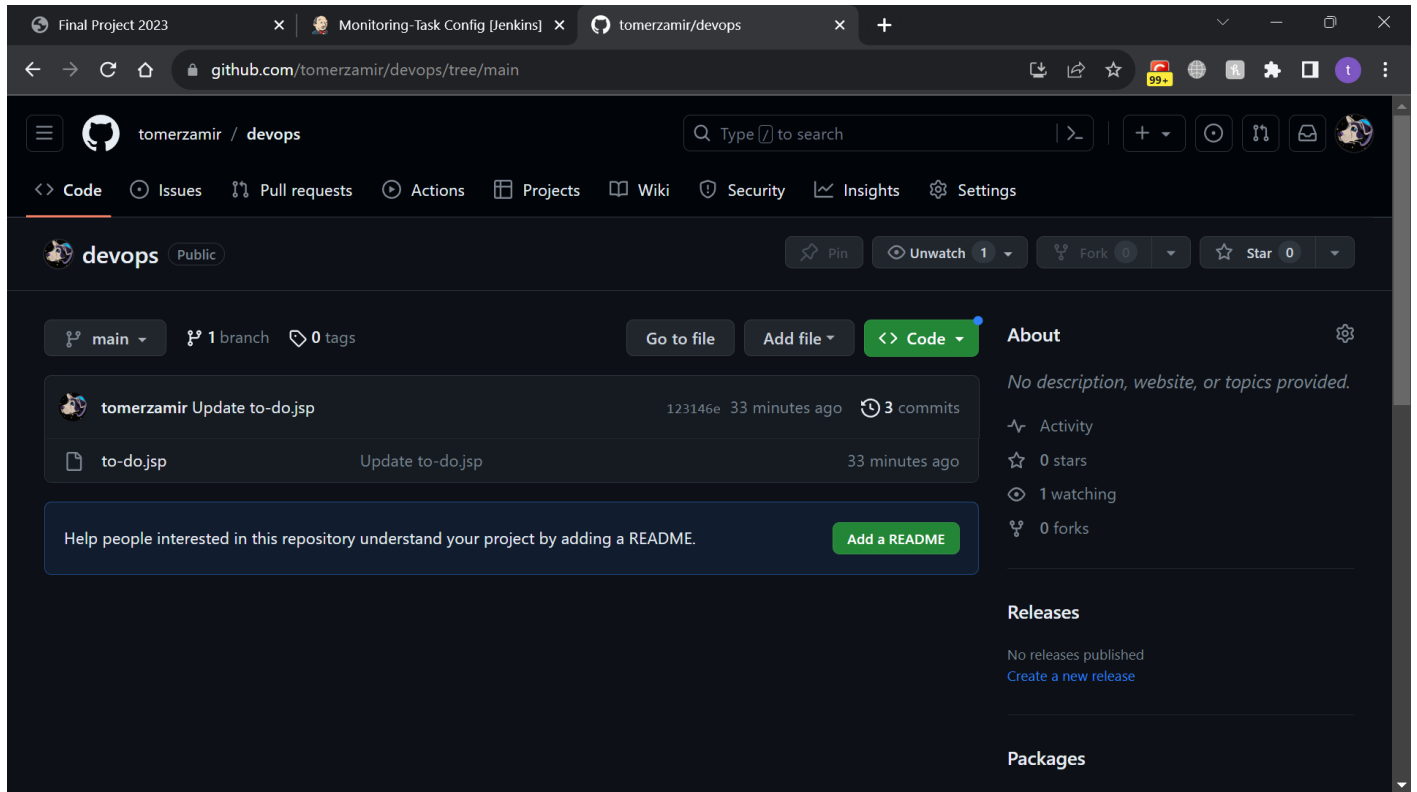
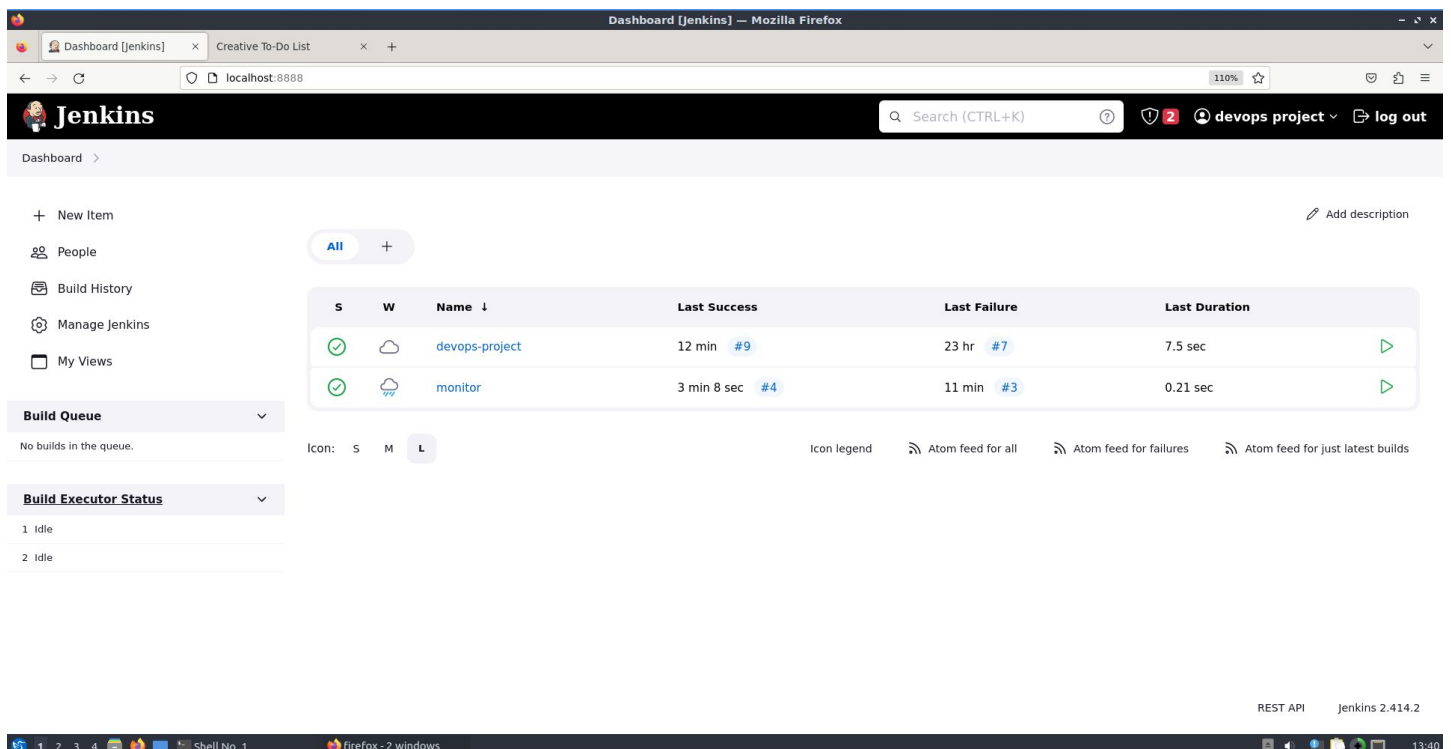


DevOps Project.



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



Primary job:

The screenshot displays the Jenkins web interface for a project named 'devops-project'. The browser window shows the URL 'localhost:8888/job/devops-project/'. The Jenkins logo is in the top left, and a search bar is in the top right. The left sidebar contains a 'Status' tab and a 'Build History' section. The main area shows the project name 'Project devops-project' and a list of 'Upstream Projects' with a 'monitor' button. Below this, there are 'Permalinks' for various builds, including 'Last build (#12)', 'Last stable build (#12)', 'Last successful build (#12)', 'Last failed build (#7)', 'Last unsuccessful build (#7)', and 'Last completed build (#12)'. The 'Build History' table on the left lists builds #7 through #12 with their respective timestamps and statuses.

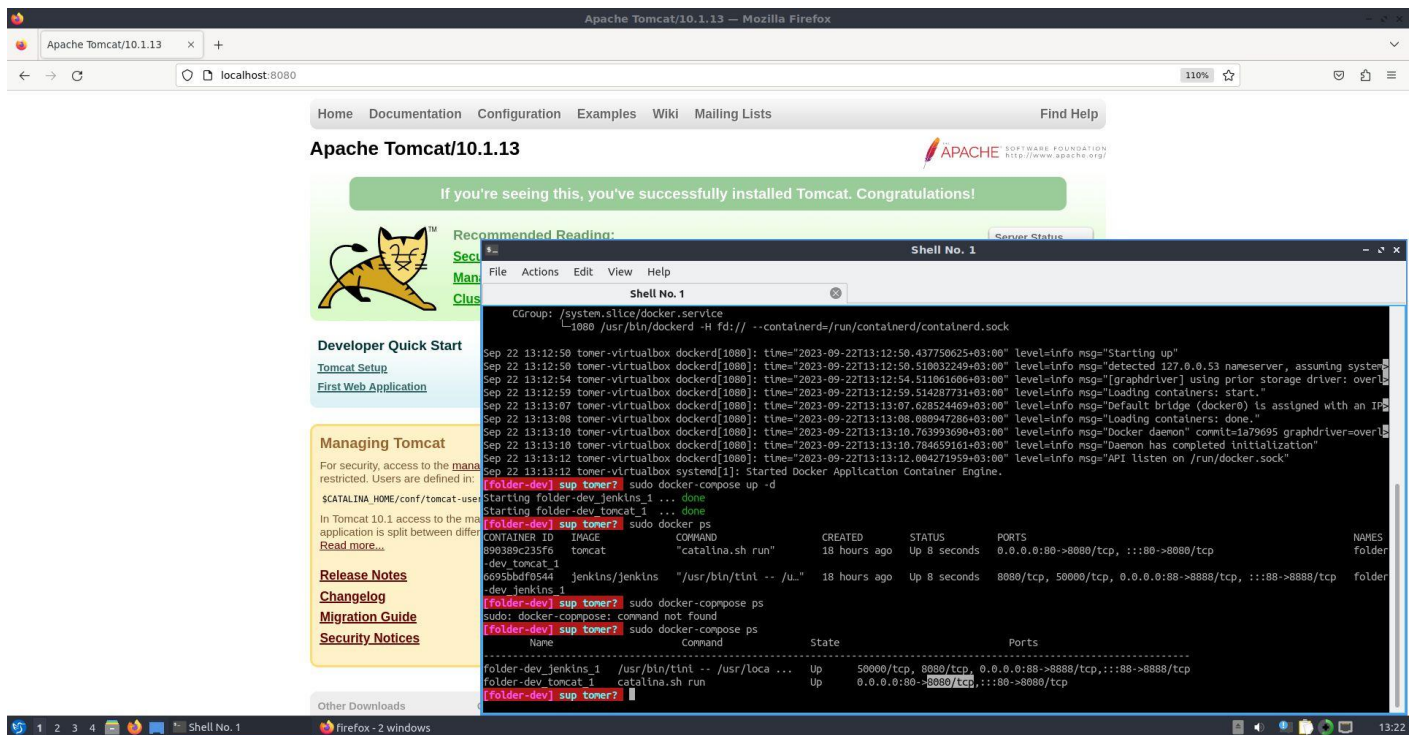
Configuration – create new folder and pull jsp file from git:

The screenshot shows the Jenkins 'Configuration' page for the 'devops-project'. The browser window displays the URL 'localhost:8888/job/devops-project/configure'. The left sidebar has a 'Build Steps' section. The main area shows the 'Build Steps' configuration, where a new step is being added. The step is named 'Execute shell' and contains a command to create a folder and pull a jsp file from git. The command is: `#!/bin/bash
folder_path="/opt/tomcat/webapps/ROOT/jsp_folder"

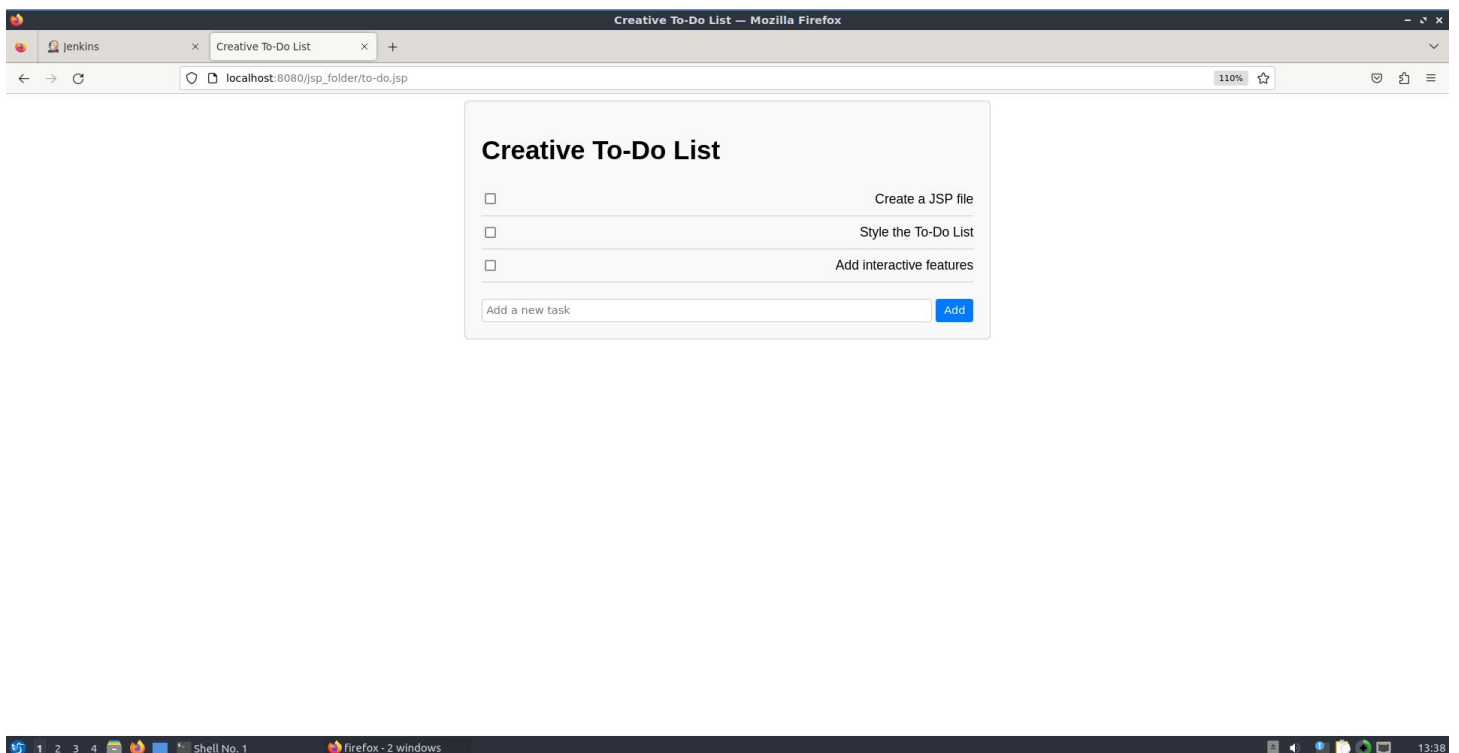
Check if the folder exists
if [-d "$folder_path"]; then
 echo "Folder exists, deleting..."
 rm -rf "$folder_path"
fi

Create the folder
mkdir -p "$folder_path"`. Below the command, there is a 'Save' button and an 'Apply' button.

Tomcat up and running:



web-app up and running:



First monitor configuration – using SiteMonitor Plugin:

The screenshot shows the Jenkins configuration page for 'devops-project' in Mozilla Firefox. The browser address bar shows 'localhost:8888/job/devops-project/configure'. The left sidebar has a 'Configure' section with a 'Post-build Actions' tab selected. The main content area is titled 'Post-build Actions' and contains a 'Monitor Site' plugin configuration box. Inside this box, the 'URL' field is set to 'http://localhost:8080/jsp_folder/to-do.jsp'. The 'Success Response Codes' field is empty. The 'Timeout in seconds' field is empty. There is an unchecked checkbox for 'Untrusted SSL connections'. An 'Add URL...' button is at the bottom right of the configuration box. Below the configuration box is a 'Add post-build action' dropdown. At the bottom of the page are 'Save' and 'Apply' buttons. The system tray at the bottom shows '1 2 3 4', 'firefox - 2 windows', 'Documents', and '/home/to...pose.yml'.

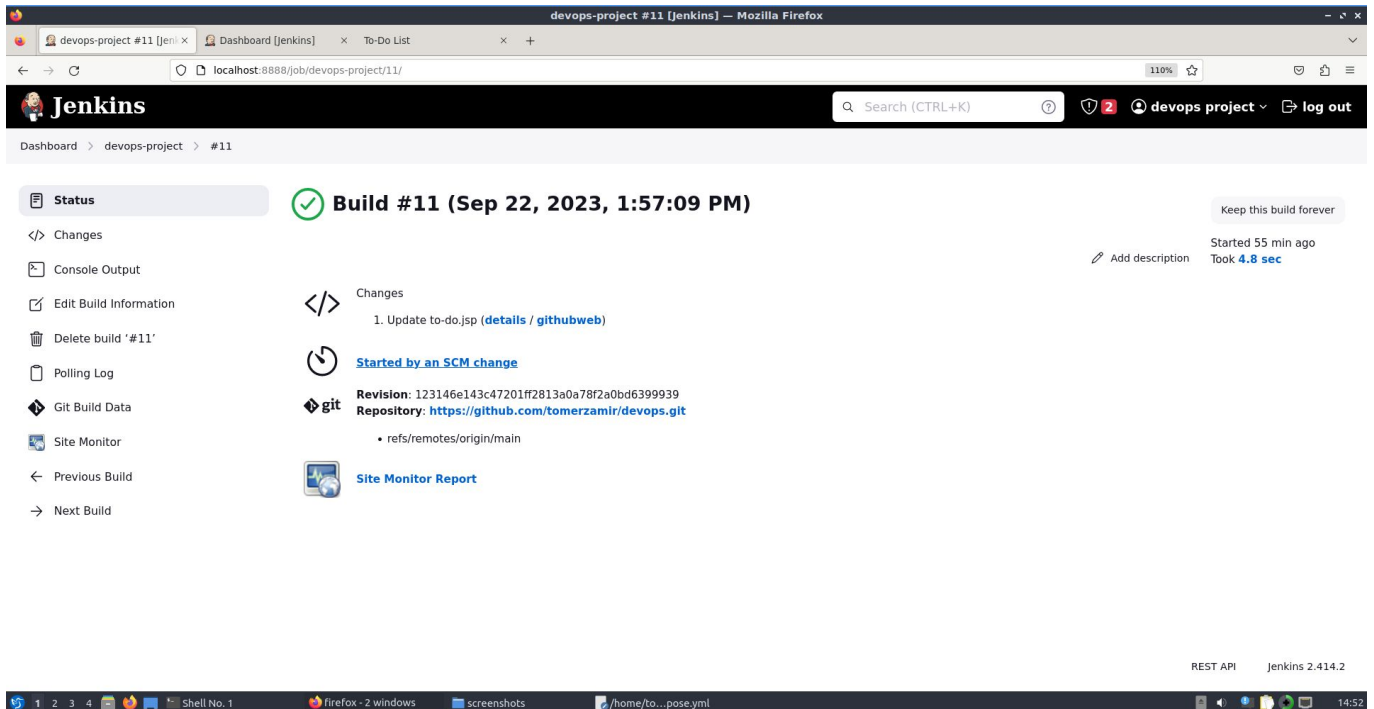
first monitor result:

The screenshot shows the Jenkins dashboard in Mozilla Firefox. The browser address bar shows 'localhost:8888/job/devops-project/12/sitemonitor/'. The Jenkins logo is on the left, and a search bar and 'log out' link are on the right. The breadcrumb trail is 'Dashboard > devops-project > #12 > Site Monitor'. The main content area is titled 'Site Monitor Report' and contains a table with the following data:

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

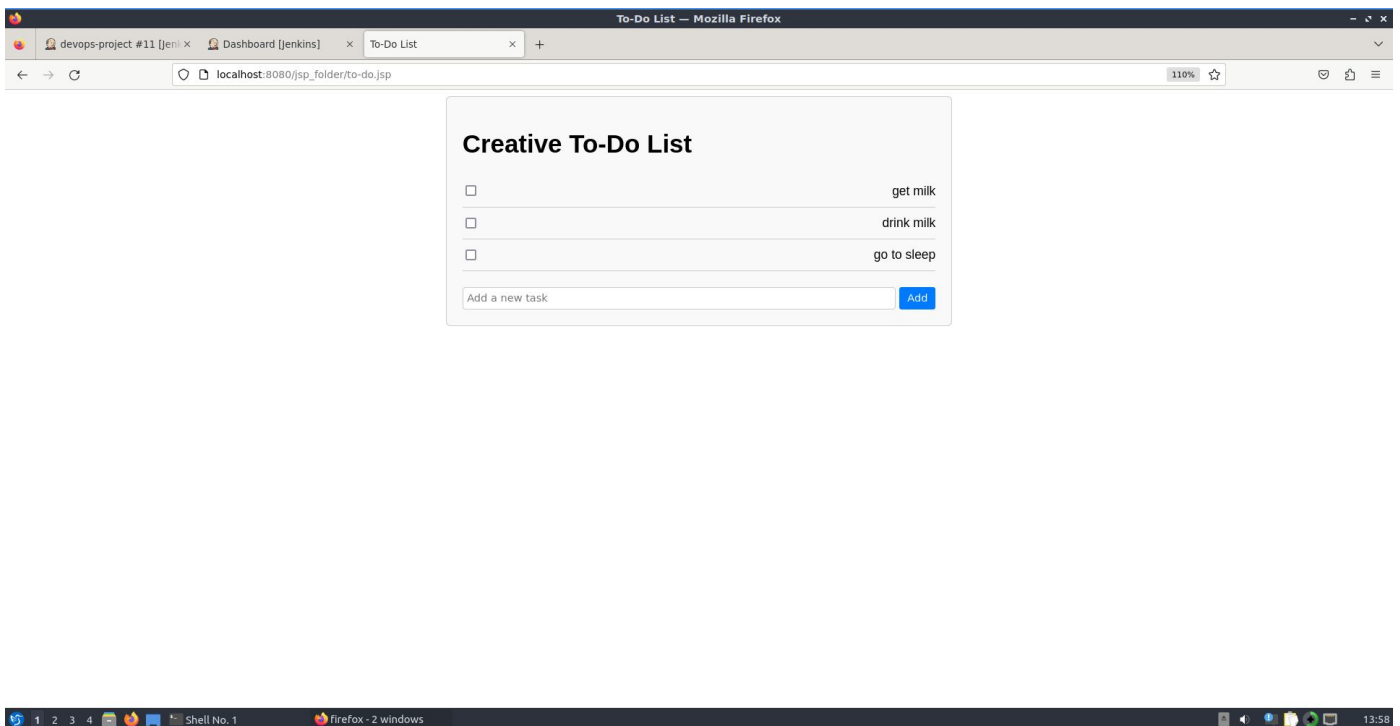
The system tray at the bottom shows '1 2 3 4', 'firefox - 2 windows', 'Documents', and '/home/to...pose.yml'. The text 'Jenkins 2.414.2' is visible in the bottom right corner.

Build starts automatically after changes to the git repository:



The screenshot shows the Jenkins web interface for a build named 'devops-project #11'. The top navigation bar includes the Jenkins logo, a search bar, and a 'log out' button. The left sidebar contains a 'Status' tab and a list of actions: Changes, Console Output, Edit Build Information, Delete build '#11', Polling Log, Git Build Data, Site Monitor, Previous Build, and Next Build. The main content area displays 'Build #11 (Sep 22, 2023, 1:57:09 PM)' with a green checkmark icon. It includes a 'Keep this build forever' button, an 'Add description' link, and build statistics: 'Started 55 min ago' and 'Took 4.8 sec'. Below this, the 'Changes' section shows a single change: '1. Update to-do.jsp (details / githubweb)'. The 'Started by an SCM change' section indicates the build was triggered by a Git commit. The 'git' section provides the revision hash '123146e143c47201ff2813a0a78f2a0bd6399939' and the repository URL 'https://github.com/tomerzamir/devops.git'. A 'Site Monitor Report' link is also present. The bottom status bar shows 'REST API' and 'Jenkins 2.414.2'.

Updated web-app:



The screenshot shows the updated web application running in a browser. The browser's address bar displays 'localhost:8080/jsp_folder/to-do.jsp'. The application is titled 'Creative To-Do List'. It features a list of three tasks, each with a checkbox and a description: 'get milk', 'drink milk', and 'go to sleep'. Below the list is an input field labeled 'Add a new task' and a blue 'Add' button. The bottom status bar shows 'firefox - 2 windows' and the time '13:58'.

second job – monitor:

The screenshot shows the Jenkins web interface in a Mozilla Firefox browser. The address bar displays `localhost:8888/job/monitor/`. The page title is "Project monitor". On the left sidebar, the "Status" tab is selected, showing a list of actions: Changes, Workspace, Build Now, Configure, Delete Project, Polling Log, and Rename. Below this, the "Build History" section shows a table of builds with columns for status, build number, and timestamp. The table lists builds #5 through #1, with build #5 being the most recent and successful. The main content area displays "Downstream Projects" (showing "devops-project") and "Permalinks" with a list of links for various build types (Last build, Last stable build, Last successful build, Last failed build, Last unsuccessful build, Last completed build). The bottom of the image shows a Windows taskbar with various application icons and a system tray displaying the date and time as 2:18 PM on 9/22/2023.

os (Snapshot 2) [Running] - Oracle VM VirtualBox

monitor [Jenkins] — Mozilla Firefox

monitor [Jenkins] x Dashboard [Jenkins] x To-Do List x +

localhost:8888/job/monitor/

Jenkins

Search (CTRL+K) devops project log out

Dashboard > monitor >

Status

Changes

Workspace

Build Now

Configure

Delete Project

Polling Log

Rename

Build History trend

Filter builds...

#5 Sep. 22, 2023, 2:11 PM

#4 Sep. 22, 2023, 1:37 PM

#3 Sep. 22, 2023, 1:29 PM

#2 Sep. 21, 2023, 1:48 PM

#1 Sep. 21, 2023, 1:46 PM

Project monitor

Add description

Disable Project

Downstream Projects

devops-project

Permalinks

- 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
- Last completed build (#5), 6 min 18 sec ago

31°C שששש

ENG US 2:18 PM 9/22/2023

second monitor configuration – different implementation:

The screenshot shows the Jenkins Configuration page for the "monitor" job. The address bar displays `localhost:8888/job/monitor/configure`. The left sidebar shows the "Configure" section with sub-tabs: General, Source Code Management, Build Triggers, Build Environment, Build Steps, and Post-build Actions. The "Build Steps" tab is selected, showing a single build step named "Execute shell". The command field contains a shell script that defines a `website_url` variable, uses `curl` to send an HTTP GET request, and checks the response code to echo a message indicating if the website is up or down. The bottom of the image shows a Windows taskbar with various application icons and a system tray displaying the date and time as 14:13.

monitor Config [Jenkins] — Mozilla Firefox

monitor Config [Jenkins] x Dashboard [Jenkins] x To-Do List x +

localhost:8888/job/monitor/configure

Dashboard > monitor > Configuration

Configure

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Build Steps

Execute shell ?

Command

See the list of available environment variables

```
#!/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
```

Advanced

Save Apply

1 2 3 4 Shell No. 1 Firefox - 2 windows 14:13

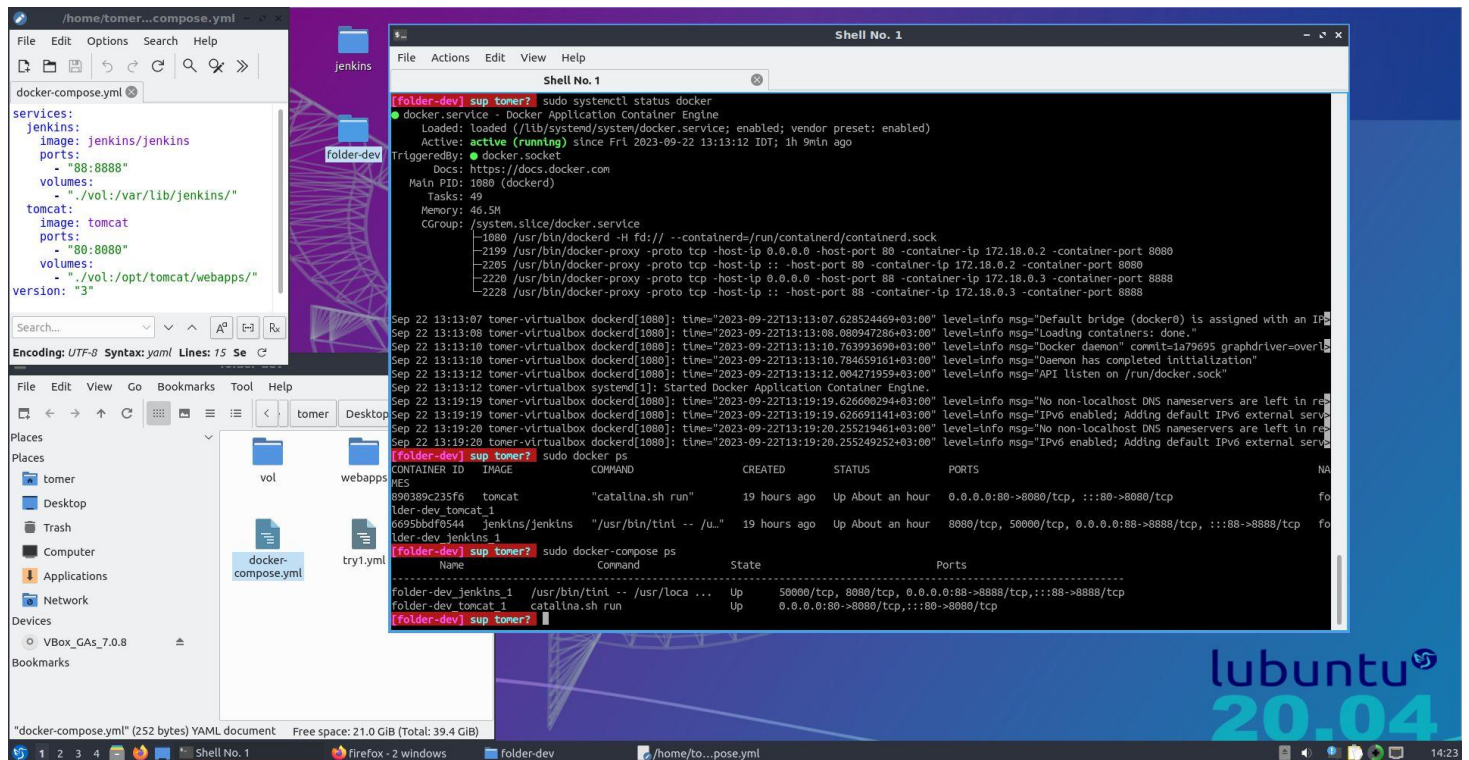
second monitor - check every minute:

The screenshot shows the Jenkins 'Configure' page for a job named 'monitor'. The 'Build Triggers' section is active, and the 'Poll SCM' checkbox is selected. The 'Schedule' field contains '*****'. 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 empty. The bottom of the page shows a Windows taskbar with the date 9/22/2023 and time 3:22 PM.

second monitor result:

The screenshot shows the Jenkins 'Console Output' for build #5 of the 'monitor' job. 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
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 bottom of the page shows a Windows taskbar with the date 9/22/2023 and time 14:12.

docker ps + docker-compose.yml file:



trigger main job in case monitor job fails:

