

TASKS

TASK 1. Create a "mindcircuit" directory under the "opt" directory. Inside the mindcircuit directory, create dir1 dir2, and dir3 directories.

TASK 2. Create file1, file2 and file3 in dir1, dir2, and dir3 directory respectively.

TASK 3. In File1, redirect the default date of the system. Then, redirect the Os name also in file1 keeping the previous content intact.

TASK 4. Fetch the total number of characters in the top 15 entries of the /etc/passwd file and redirect it to file2

TASK 5. Copy the content of file2 in file3.

TASK 6. move file3 from dir3 directory to dir1 directory.

TASK 7. Delete the dir3 directory and file2 as we already have the content in file3 which is now present in dir1 directory.

TASK 8. Create a file4 in dir1 directory. Add some data into it. Ensure that the data is preserved even if file4 is deleted.

TASK 9. Create a file5 in dir1 directory and redirect all the entries of /etc/passwd file5 .
Also, append the last 5 entrires of the /etc/shadow file.

TASK 10. Create a file6 in dir1 directory with the below data into it.

Cook:Book–Took

High:Why–Try

spare:care-mare

Use the cut command in such a way that only the below data is printed

Took

Try

mare

=====

once you complete above questions manually on linux server, Now try to automate above tasks using JENKINS EXECUTE SHELL

TASK -11

Create two directories--- project-dir and Jenkins-dir

Enters the project folder

Creates a new directory named Document

Creates the notes.txt file inside the Documents

#Adds content to the file,

Displays the content of the notes.txt file

Deletes the notes.txt file

Moves up one directory level

Deletes the Jenkins directory and its contents

Try to automate the above TASK using Jenkins.

TASK -12

Create a Jenkins Job to print the statement as

The print statement should be hey, "your_name" don't forget to terminate the Instance.

Note : to be used parameters & username shouldn't be hardcoded.

Whoever running the Job it should print their username.

Tip: This can be achievable using Parameters.

TASK 13

Subject: Request for Installation of Jenkins Server on Ubuntu and User Access

Dear DevOps Team,

I'm reaching out to request your assistance in setting up a Jenkins server on an Ubuntu environment and providing user access for our team.

Installation of Jenkins on Ubuntu Server: We have a project that requires the implementation of CI/CD practices. To facilitate this, we would greatly appreciate it if you could install Jenkins on an Ubuntu server. We've chosen Ubuntu due to its compatibility and ease of maintenance.

Details for Jenkins Server Installation:

- Operating System: Ubuntu
- Ensure that the latest stable version of Jenkins is installed.
- Please configure Jenkins to run as a service so that it starts automatically upon server boot.

User Access for Jenkins: As part of our team, we need access to the Jenkins server to create and manage Jobs. Kindly create user accounts for our team members and grant appropriate permissions to access and utilize Jenkins effectively.

Contact Information: Should you require any further details or have any queries regarding this request, please feel free to reach out to me.

We truly appreciate your support in setting up the Jenkins server, and we're looking forward to utilizing this valuable tool for our projects.

Thank you very much for your attention to this matter.

=====

TASK-14:

Subject: Request to Implement CI/CD Using Jenkins and Tomcat 9

Dear DevOps Team,

I am writing to request your support in setting up a Continuous Integration/Continuous Deployment (CI/CD) using Jenkins and Tomcat 9 for our project.

****Project Overview:****

We aim to streamline our software deployment process by implementing a CI/CD. Our goal is to automate the build and deployment of our web application hosted on Tomcat 9.

The workflow involves separate servers for Jenkins and Tomcat:

- Jenkins Server: Ubuntu Server/AWS Linux Machine
- Tomcat Server: Separate machine hosting Tomcat 9

****Requirements:****

1. Configure Jenkins on the Ubuntu Server/AWS Linux Machine.
2. Set up the Jenkins CI/CD to:
 - Fetch the source code from our version control system.
 - Build the code using Maven.
 - Generate a deployable WAR file.
 - Deploy the WAR file to the Tomcat 9 server.
3. ****Use the below code to build****

<https://github.com/devopstraininghub/mindcircuit.git>

****Process Overview:****

We anticipate the CI/CD process to involve the following steps:

- Jenkins fetches the code from our repository (e.g., GitHub).
- Jenkins runs build processes using Maven.
- Upon successful build, Jenkins generates a WAR file.
- Jenkins deploys this WAR file to the Tomcat 9 server for production/staging.

****Project Timelines:****

We aim to implement this CI/CD at the earliest feasible timeline. However, we understand the complexity and coordination required for such setups.

Please provide an estimated timeline for the setup and any additional information or requirements from our end to facilitate this process.

****Collaboration and Communication:****

We are committed to collaborating and providing any necessary support to ensure the successful implementation of this CI/CD .

Kindly let us know how we can assist in the process and if there are any specific details or configurations required from our side.

Your expertise in setting up this CI/CD will significantly benefit our project by enhancing our deployment processes. We greatly appreciate your efforts in this initiative.