

Selected files

1 printable files

LAB 5 .md

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Objective: Build a starter project environment automatically.

starter_kit.sh

```
#!/bin/bash

# Create project directories
mkdir -p project/scripts project/docs project/data

# Add placeholder README.md in each folder
for folder in project project/scripts project/docs project/data; do
    echo "# README for $(basename "$folder")" > "$folder/README.md"
done
```

Print completion message

echo "Starter Kit Ready!" How it works: *mkdir -p* ensures parent directories are created if they don't exist. The for loop adds a README.md in each folder with a placeholder title. Finally, it prints Starter Kit Ready!. LAB_extra.md

Sample Output



LAB_extra

Purpose of Script

The `starter_kit.sh` script automates the creation of a starter project structure. It:

- Creates a `project/` folder with subfolders: `scripts/`, `docs/`, `data/`.

- Adds a placeholder `README.md` file in each folder.
- Prints a confirmation message after successful execution.

This saves time and ensures consistent project folder setup.

Example Run

\$ bash starter_kit.sh Starter Kit Ready! **Folder structure after running:** project/

- |— README.md
- |— scripts/
 - |— README.md
- |— docs/
 - |— README.md
- |— data/
 - |— README.md

Extra Questions

1. What does `mkdir -p` do? ·*mkdir* is the command to make a new directory (folder). ·The *-p* flag stands for “parents”, and it has two main effects: ·Creates parent directories if they don’t exist. ·Without *-p*, *mkdir* project scripts would give an error if project doesn’t already exist. ·Doesn’t complain if the directory already exists. Normally, *mkdir* foldername fails if the folder already exists. With *-p*, it just moves on quietly.
2. Why is automation useful in DevOps? ·DevOps focuses on collaboration, speed, and reliability in software development and deployment. Automation is a core part because it:
 - Saves Time
 - Repetitive tasks like creating environments, deploying code, or running tests can be automated.
 - Reduces manual work so teams can focus on actual development.
 - Reduces Human Error
 - Manual tasks are prone to mistakes (typos, missing steps).
 - Scripts and automation tools ensure tasks are executed consistently every time.
 - Speeds Up Delivery
 - Automation allows continuous integration and continuous deployment (CI/CD).
 - Software updates can reach users faster and more reliably.
 - Ensures Consistency Across Environments
 - Development, testing, and production environments can be automatically configured the same way.
 - Avoids the “it works on my machine” problem.
 - Scales Easily
 - Tasks that are simple for one system can be automatically applied to hundreds or thousands of servers.