



boa3444 / Linux_Lab

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boa3444 Update LAB_extra.md

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141 lines (103 loc) · 3.46 KB

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🔗 LAB5 - Starter Kit & Automation

Objective: Build a starter project environment automatically.



starter_kit.sh – Script

```
#!/bin/bash

# Create project directory structure
mkdir -p project/scripts
mkdir -p project/docs
mkdir -p project/data

# Add placeholder README.md in each subfolder
touch project/scripts/README.md
touch project/docs/README.md
touch project/data/README.md

# Final message
echo "Starter Kit Ready!"
```



LAB_extra.md – Documentation

```
# LAB 5 - Starter Kit & Automation
```



```
## Objective
```

Automatically set up a starter project environment with organized folders a

🔧 Purpose of `starter_kit.sh`

This script simplifies the setup of a new project by:

- Creating a standard folder structure: `scripts/`, `docs/`, `data/` inside
- Adding a `README.md` file in each folder to encourage documentation from
- Printing a confirmation message once setup is complete

Example Run

```
```bash
$ bash starter_kit.sh
Starter Kit Ready!
```

## Directory Structure After Execution:

```
project/
├── scripts/
│ └── README.md
├── docs/
│ └── README.md
└── data/
 └── README.md
```



## Screenshots:

The screenshot shows a terminal window with the following session:

```
vboxuser@ubuntu:~/Documents/Linux_Lab/starter_folder$ ls
starter_kit.sh
vboxuser@ubuntu:~/Documents/Linux_Lab/starter_folder$./starter_kit.sh
bash: ./starter_kit.sh: Permission denied
vboxuser@ubuntu:~/Documents/Linux_Lab/starter_folder$ chmod +x starter_kit.sh
vboxuser@ubuntu:~/Documents/Linux_Lab/starter_folder$./starter_kit.sh
Starter Kit Ready!
vboxuser@ubuntu:~/Documents/Linux_Lab/starter_folder$ ls
project starter_kit.sh
vboxuser@ubuntu:~/Documents/Linux_Lab/starter_folder$ cd project
vboxuser@ubuntu:~/Documents/Linux_Lab/starter_folder/project$ ls
data docs scripts
```

```
vboxuser@ubuntu:~/Documents/Linux_Lab/starter_folder$ ls -R project
project:
data docs scripts

project/data:
README.md

project/docs:
README.md

project/scripts:
README.md
```

## ?

## Extra Questions:

### Q1. What does `mkdir -p` do?

- `mkdir -p` creates **nested directories** in one command.
- If the parent directory already exists, it **doesn't throw an error**.
- Example:

```
mkdir -p project/scripts
```



This creates both `project/` and `scripts/` if they don't exist.

### Q2. Why is automation useful in DevOps?

- **Consistency**: Ensures environments are set up the same way every time.
- **Speed**: Saves time by eliminating manual setup.
- **Reproducibility**: Makes it easy to recreate environments for testing or deployment.
- **Scalability**: Supports large teams and CI/CD pipelines by automating repetitive tasks.

## 📎 Appendix: Raw Markdown Source

To ensure reproducibility and peer learning, the full Markdown source of this lab report is included below.

```
LAB 5 - Starter Kit & Automation
```



## ## Objective

Automatically set up a starter project environment with organized folders a

## ## 🔧 Purpose of `starter\_kit.sh`

This script simplifies the setup of a new project by:

- Creating a standard folder structure: `scripts/`, `docs/`, `data/` inside
- Adding a `README.md` file in each folder to encourage documentation from
- Printing a confirmation message once setup is complete

## ## Example Run

```
```bash
$ bash starter_kit.sh
Starter Kit Ready!
````
```

\*\*Directory Structure After Execution:\*\*

```
```project/
├── scripts/
│   └── README.md
├── docs/
│   └── README.md
└── data/
    └── README.md
````
```

\*\*Screenshots:\*\*

\*(Insert your screenshot here showing terminal output and folder tree)\*

## ## Extra Questions

### ### Q1. What does `mkdir -p` do?

- `mkdir -p` creates \*\*nested directories\*\* in one command.
- If the parent directory already exists, it \*\*doesn't throw an error\*\*.

### ### Q2. Why is automation useful in DevOps?

- 📁 \*\*Consistency\*\*
- ⚡ \*\*Speed\*\*
- 🖌 \*\*Reproducibility\*\*
- 🏗 \*\*Scalability\*\*

