

Buildables Fellowship – DevOps Program

Weekly Report – Week 1

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Introduction

This week I explored the basics of Linux and Git, which are the foundations of DevOps. I also set up my practice environment by downloading **VirtualBox** and installing **Ubuntu** as my virtual machine.

Theoretical Findings

Linux Basics:

- Linux is the most widely used OS in DevOps because most servers and cloud systems run on it.
- I learned about the Linux file system structure (/home, /etc, /var, etc.).
- Basic commands practiced:
 - pwd – shows present working directory.
 - ls – lists directory contents.
 - cd – changes directory.
 - mkdir – creates directories.
 - rm – removes files or directories.
 - cat and echo – view or create simple text files.
- Understood the difference between **absolute path** and **relative path**.
- Learned about **users, groups, and permissions** in Linux.

Git Basics:

- Git is a version control system used to track changes in code.
- Important commands studied:
 - git clone – copy a remote repository locally.
 - git add – stage changes.
 - git commit – save changes with a message.
 - git push – send changes to remote repository.
 - git pull – fetch and merge updates from remote repository.

- Learned how Git helps in team collaboration by managing versions.
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Practical Work

On my Ubuntu VM, I practiced the following commands:

```
pwd
```

```
mkdir DevOps_Practice
```

```
cd DevOps_Practice
```

```
echo "Hello DevOps Fellowship" > test.txt
```

```
cat test.txt
```

I also created a sample Git repository, initialized it, and tried adding and committing a file.

```
git init
```

```
git add test.txt
```

```
git commit -m "First commit in fellowship practice"
```

Conclusion

In the first week, I learned the basics of Linux commands, file system, and Git version control. I also set up my environment with VirtualBox and Ubuntu, which I will use for further practice. This setup will help me practice upcoming DevOps tools more effectively.

THE END