

## **Week 1, Lab 1**

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### **1) [2] In the newly set up Hadoop Docker container, what does the \$HOME environment variable represent?**

\$HOME represents the home directory of the current user in a Unix/Linux system. Inside the Hadoop Docker container, \$HOME usually points to “/root”. It is the default directory where: user files are stored, configuration files are saved or the system takes you when we type cd without arguments

### **2) [2] What does sudo mean in a Unix/Linux environment, and when is it typically used?**

Sudo stand for “Superuser do”. It’s allows a regular user to execute a command with administrative “root” privileges. Typically used when installing software, modify system files , changing system configuration or managing services. For example “sudo apt-get update”, without sudo, many system-level commands will return “permission denied”

### **3) [6] Write and briefly explain any 6 Unix/Linux commands.**

ls - List Directory Contents

pwd - Print Working Directory

mkdir - Make directory

touch - Create empty file

cat - Display file content

rm - Remove file

```
[2026-02-21 16:59] root@localhost /opt $ ls
avro flume hadoop hbase hive java kafka my_code pig spark sqoop
[2026-02-21 17:05] root@localhost /opt $ pwd
/opt
[2026-02-21 17:05] root@localhost /opt $ mkdir test
[2026-02-21 17:05] root@localhost /opt $ touch t
[2026-02-21 17:05] root@localhost /opt $ ls
avro flume hadoop hbase hive java kafka my_code pig spark sqoop t test
[2026-02-21 17:05] root@localhost /opt $ cat t
[2026-02-21 17:05] root@localhost /opt $ vim t
[2026-02-21 17:06] root@localhost /opt $ cat t
test content
[2026-02-21 17:06] root@localhost /opt $ rm t
[2026-02-21 17:06] root@localhost /opt $ ls
avro flume hadoop hbase hive java kafka my_code pig spark sqoop test
[2026-02-21 17:06] root@localhost /opt $
```