

Task 10: Compress & Archive Automation – PoC

This PoC demonstrates a **Bash script** that searches for `.log` files larger than **10MB**, compresses them into a date-stamped archive, and moves it to a backup directory.

Objective

- Find all `.log` files **>10MB** in `/home/studentuser/projectX/logs`
- Compress them into a tarball named `archive_<date>.tar.gz`
- Move the archive to `/home/studentuser/projectX/backup/`

Script: **archive_logs.sh**

```
#!/bin/bash

LOG_DIR="/home/studentuser/projectX/logs"
BACKUP_DIR="/home/studentuser/projectX/backup"
DATE=$(date +%Y%m%d)
ARCHIVE_NAME="archive_${DATE}.tar.gz"

echo "📦 Searching for .log files >10MB in $LOG_DIR ..."

# Find log files larger than 10MB
FILES=$(find "$LOG_DIR" -name "*.log" -size +10M)

if [ -z "$FILES" ]; then
    echo "✅ No .log files larger than 10MB found."
    exit 0
fi
```

```
# Create archive from found files
tar -czf "$ARCHIVE_NAME" $FILES
echo "✅ Created archive: $ARCHIVE_NAME"

# Ensure backup directory exists
mkdir -p "$BACKUP_DIR"

# Move archive to backup directory
mv "$ARCHIVE_NAME" "$BACKUP_DIR"
echo "✅ Archive moved to: $BACKUP_DIR/$ARCHIVE_NAME"

echo "🎯 Task complete."
```

How to Run

```
chmod +x archive_logs.sh
./archive_logs.sh
```

```
(kali@kali)-[~]
└─$ sudo cp /home/kali/archive_logs.sh /home/studentuser/
sudo chown studentuser:studentuser /home/studentuser/archive_logs.sh

[sudo] password for kali:

(kali@kali)-[~]
└─$ su - studentuser

Password:
(studentuser@kali)-[~]
└─$ chmod +x archive_logs.sh
└─$ ./archive_logs.sh
```