

Atividade 03 - Pratica de Comandos Linux no Modo Bash

Aluno: Guilherme Miguel Neto Santa Rosa

Relatorio e Evidencias (prints simulados de terminal):

Figura 1 - Estrutura de diretorios criada (mkdir / ls)

```
user@ubuntu:~ - Terminal
$ mkdir -p "$HOME/ExerciciosS0/Docs"
$ cd "$HOME/ExerciciosS0"
$ mkdir Imagens Scripts Backup
$ ls -l
total 0
drwxr-xr-x 2 user user 4096 Sep 19 10:00 Docs
drwxr-xr-x 2 user user 4096 Sep 19 10:00 Imagens
drwxr-xr-x 2 user user 4096 Sep 19 10:00 Scripts
drwxr-xr-x 2 user user 4096 Sep 19 10:00 Backup
```

Figura 2 - Criacao e exibicao do arquivo resumo.txt

```
user@ubuntu:~ - Terminal
$ cd ~/Exercicios0/Docs
$ echo "Sistemas Operacionais - Atividade 3" > resumo.txt
$ cat resumo.txt
Sistemas Operacionais - Atividade 3
```

Figura 3 - Conteudo do script meu_script.sh

```
user@ubuntu:~ - Terminal

$ cd ~/ExerciciosS0/Scripts
$ nano meu_script.sh # (arquivo criado)
$ cat meu_script.sh
#!/bin/bash
# meu_script.sh - lista Docs e cria saida.txt com data/hora e mensagem final
ROOT="$HOME/ExerciciosS0"
echo "Data e hora: $(date)"
ls -l "$ROOT/Docs" > "$ROOT/Scripts/saida.txt"
echo "Fim da execução do script" >> "$ROOT/Scripts/saida.txt"
echo "--- Conteudo de saida.txt ---"
cat "$ROOT/Scripts/saida.txt"
```

Figura 4 - Execucao de meu_script.sh e conteudo de saida.txt

```
user@ubuntu:~ - Terminal
$ chmod +x meu_script.sh
$ ./meu_script.sh
Data e hora: 2025-11-02 12:31:00
--- Conteudo de saida.txt ---
total 0
-rw-r--r-- 1 user user 28 Sep 19 10:05 resumo.txt
Fim da execucao do script
```

Figura 5 - Execucao de backup.sh e conteudo de backup_log.txt

```
user@ubuntu:~ - Terminal

$ cat backup.sh
#!/bin/bash
ROOT="$HOME/ExerciciosS0"
DOCS="$ROOT/Docs"
BACKUP="$ROOT/Backup"
LOG="$ROOT/Scripts/backup_log.txt"
mkdir -p "$BACKUP"
echo "==== BACKUP - $(date) ====" >> "$LOG"
shopt -s nullglob
for f in "$DOCS"/*.txt; do
    cp "$f" "$BACKUP/"
    echo "Copiado: $(basename "$f")" >> "$LOG"
done
ls -l "$BACKUP" >> "$LOG"
echo "Backup concluido."
$ chmod +x backup.sh
$ ./backup.sh
Backup concluido.
$ tail -n 10 Scripts/backup_log.txt
==== BACKUP - 2025-11-02 12:31:00 ====
Copiado: resumo.txt
total 0
-rw-r--r-- 1 user user 28 Sep 19 10:05 resumo.txt
```

Figura 6 - Criacao de entrada.txt, ordenacao e localizacao de .txt

```
user@ubuntu:~ - Terminal
$ cat > Docs/entrada.txt << 'EOF'
banana
uva
laranja
abacaxi
pera
EOF
$ sort < Docs/entrada.txt > Docs/ordenado.txt
$ cat Docs/ordenado.txt
abacaxi
banana
laranja
pera
uva
$ find . -name "*.txt"
./Docs/resumo.txt
./Docs/entrada.txt
./Docs/ordenado.txt
./Scripts/saida.txt
./Scripts/backup_log.txt
```

Figura 7 - Comandos de rede: ip addr, ping e traceroute

```
user@ubuntu:~ - Terminal

$ ip addr show
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500
    inet 192.168.0.42/24 brd 192.168.0.255 scope global dynamic eth0
$ ping -c 4 www.google.com
PING www.google.com (142.250.68.4) 56(84) bytes of data.
64 bytes from 142.250.68.4: icmp_seq=1 ttl=117 time=12.3 ms
64 bytes from 142.250.68.4: icmp_seq=2 ttl=117 time=12.1 ms
64 bytes from 142.250.68.4: icmp_seq=3 ttl=117 time=12.0 ms
64 bytes from 142.250.68.4: icmp_seq=4 ttl=117 time=11.9 ms
--- www.google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
$ traceroute www.google.com
traceroute to www.google.com (142.250.68.4), 30 hops max, 60 byte packets
 1  192.168.0.1 (192.168.0.1)  1.123 ms  0.987 ms  0.884 ms
 2  10.10.10.1 (10.10.10.1)  10.234 ms  11.345 ms  10.456 ms
 3  142.250.68.4 (142.250.68.4)  12.345 ms  11.987 ms  12.234 ms
```