



Linux Permissions Step-by-Step

A Beginner's Hands-On Tutorial

This free guide introduces Linux file and directory permissions using a live Linux environment that runs directly in your web browser. No installation is required.

Free Browser Linux Lab

<https://bellard.org/jslinux/vm.html?cpu=riscv64&url=buildroot-riscv64.cfg&mem=256>

Open the link, wait for the Linux prompt, and follow each lesson step-by-step.

Lesson 1 – What Are Permissions?

Permissions control who can read (r), write (w), or execute (x) files.

Step 1: pwd

Step 2: ls

Step 3: mkdir permissions_lab

Step 4: cd permissions_lab

Step 5: touch myfile.txt

Step 6: ls -l

Step 7: Examine the permission string.

Lesson 2 – Changing Permissions

```
chmod +x myfile.txt  
chmod -x myfile.txt  
chmod 400 myfile.txt  
chmod 600 myfile.txt  
chmod 644 myfile.txt  
chmod 755 myfile.txt
```

Run `ls -l` after every command.

Lesson 3 – Numeric Permissions

4=Read

2=Write

1=Execute

777 Full access

755 Owner full

644 Common file

600 Private file

Practice by changing permissions and verifying with `ls -l`.

Congratulations!

You have completed your first Linux permissions lab.

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