cheat sheet of Linux commands relevant to cybersecurity:

**Navigation:**

* **cd**: Change directory
  + Example: **cd /path/to/directory**
* **ls**: List files and directories
  + Example: **ls -l** (detailed list)

**File Operations:**

* **cp**: Copy files or directories
  + Example: **cp file1 file2**
* **mv**: Move or rename files
  + Example: **mv file1 file2**
* **rm**: Remove files or directories
  + Example: **rm file1**
  + Caution: Use with care!

**Permissions:**

* **chmod**: Change file permissions
  + Example: **chmod 755 filename** (rwxr-xr-x)
* **chown**: Change file ownership
  + Example: **chown user:group filename**

**Searching:**

* **grep**: Search for patterns in files
  + Example: **grep pattern filename**

**Networking:**

* **ifconfig**: Configure network interfaces
  + Example: **ifconfig eth0 up**
* **netstat**: Display network connections
  + Example: **netstat -tuln**

**Process Management:**

* **ps**: Display information about running processes
  + Example: **ps aux**
* **kill**: Terminate processes
  + Example: **kill PID**

**System Information:**

* **uname**: Display system information
  + Example: **uname -a**
* **df**: Display disk space usage
  + Example: **df -h**

**Package Management (Debian-based systems):**

* **apt**: Advanced Package Tool (for package management)
  + Example: **apt install package\_name**

**Users and Groups:**

* **adduser**: Create a new user
  + Example: **adduser username**
* **passwd**: Change user password
  + Example: **passwd username**

**File Integrity:**

* **md5sum**: Calculate and verify MD5 checksums
  + Example: **md5sum filename**

**Firewall:**

* **iptables**: Configure firewall rules
  + Example: **iptables -A INPUT -p tcp --dport 22 -j ACCEPT**

**Secure Shell (SSH):**

* **ssh**: Connect securely to a remote server
  + Example: **ssh user@hostname**

**File Permissions:**

* **chmod**: Change file permissions
  + Example: **chmod 644 filename** (rw-r--r--)