

Top Commands for IT Support Technicians (2025 Edition)

Reference Guide: IT Support Commands (PDF)

1. Network Diagnostics

- ipconfig / ifconfig / ip addr show: Check network configuration.
- ping <hostname or IP>: Test connectivity.
- tracert / traceroute: Trace packet routes.

2. File System Navigation

- dir (Windows): List files and directories.
- ls (Linux/macOS): View directory contents.
- cd <directory>: Change directory.

3. Process Management

- tasklist / taskkill (Windows): View and terminate processes.
- ps aux / top (Linux/macOS): Monitor processes.

4. Disk Management

- diskpart (Windows): Manage disks and partitions.
- df -h / du -sh (Linux/macOS): Check disk usage.

5. System Information

- systeminfo (Windows): Detailed system specs.
- uname -a (Linux/macOS): Kernel and OS details.

6. Remote Access

- mstsc (Windows): Remote Desktop Connection.
- ssh user@hostname (Linux/macOS): Secure remote login.

7. Package Management

- winget install <package> (Windows): Install applications.
- sudo apt install <package> (Linux): Install software.

8. Troubleshooting Tools

- sfc /scannow / chkdsk /f (Windows): System file and disk repair.
- dmesg (Linux/macOS): View system logs.

9. Advanced Networking

- netstat -tuln (Linux): View active ports.
- nslookup <hostname>: Resolve DNS queries.

Checklist: Practice Commands

1. Basic Commands

- Use ping to check connectivity to a website.
- List all files in a directory with ls -lah or dir.
- Navigate to a directory using cd.

2. System Diagnosis

- Run ipconfig /all to view network configurations.
- Use tasklist to identify high CPU usage processes.

3. Disk and File Management

- Check free disk space with `df -h` or `diskpart` list disk.
- Find large directories using `du -sh *`.

4. Networking Tools

- Trace packet routes with `tracert google.com`.
- Diagnose DNS issues using `nslookup`.

5. Remote Access

- Log into a remote server with `ssh user@hostname`.
- Connect to a remote Windows machine using `mstsc`.

6. Troubleshooting

- Repair system files using `sfc /scannow`.
- View system logs with `dmesg | grep error`.

