



Practical  
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## ADB Commands : Basic to Advanced

### \* Basic ADB Commands

- Check ADB Version :  
`adb version`
- List Connected Devices :  
`adb devices`
- Start ADB Server :  
`adb start-server`
- Stop ADB Server :  
`adb kill-server`
- Connect to a Device via IP :  
`adb tcpip 5555`  
`adb connect <device-ip>:5555`
- Reboot Device :  
`adb reboot`
- Reboot into Bootloader :  
`adb reboot bootloader`
- Check Device Log :  
`adb logcat`



## \* File Management Commands:

- Pull a File from Device:  
`adb pull /sdcard/file.txt <local-path>`
- Push a File to Device:  
`adb push <local-file-path> /sdcard/`
- List Files in a Directory:  
`adb shell ls/sdcard/`
- Delete a File:  
`adb shell rm /sdcard/file.txt`

## \* Advanced ADB Commands.

- Access Device Shell:  
`adb shell`
- Install an APK:  
`adb install <apk-path>`
- Uninstall an App:  
`adb uninstall <package-name>`
- List Installed Packages:  
`adb shell pm list packages.`





- Grant Specific Permissions :  
~~adb~~ adb shell pm ~~grant~~ grant <package-name> <permission>

- Take a Screenshot :  
adb shell screencap /sdcard/screenshot.png  
adb pull /sdcard/screenshot.png <local-path>

- Record Screen :  
adb shell screenrecord /sdcard/video.mp4  
adb pull /sdcard/video.mp4 <local-path>

- Monitor Network Activity :  
adb shell dumpsys netstats

#### \* Forensic and Security Testing Commands.

- Extract Android Logs for Forensics :  
adb logcat -d > logcat.txt
- Dump System Information :  
adb shell dumpsys
- Check Running Processes :  
adb shell ps
- Capture Network Traffic :  
adb shell tcpdump -i any -s 0 -w /sdcard/capture.pcap  
adb pull /sdcard/capture.pcap <local-path>

- Unlock the Device via ADB:  
`adb shell input keyevent 82`
- Simulate Touch Events:  
`adb shell input tap <x><y>`
- Simulate Swipe Events:  
`adb shell input swipe <x1><y1><x2><y2>`
- Dump Device's SQLite Database:  
`adb shell "run-as <package-name> cat databases/  
<db-name>" > <local-file>`

## \* Advanced Debugging and Penetration Testing

- Forward Ports for Debugging:  
`adb forward tcp: <local-port> tcp: <device-port>`
- Reverse Port Forwarding:  
`adb reverse tcp: <local-port> tcp: <device-port>`
- Launch an Activity:  
`adb shell am start -n <package-name> / <activity-name>`
- Backup Data:  
`adb backup -apk -shared -all -f backup.ab`
- Restore Backup:  
`adb restore backup.ab`