

## ADB Commands: Basic to Advanced

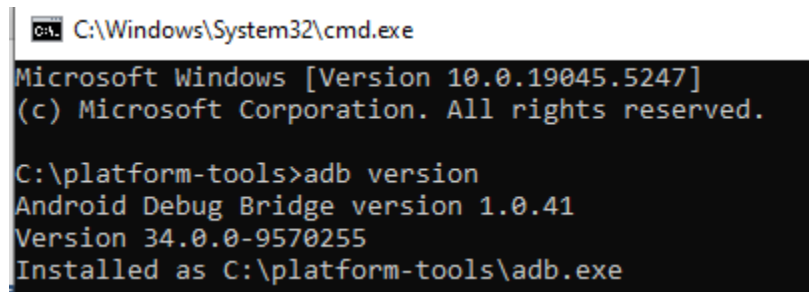
### Basic ADB Commands

Check ADB Version:

adb version

List Connected Devices:

adb devices

A screenshot of a Windows command prompt window. The title bar shows 'C:\Windows\System32\cmd.exe'. The window content shows the following text:

```
Microsoft Windows [Version 10.0.19045.5247]
(c) Microsoft Corporation. All rights reserved.

C:\platform-tools>adb version
Android Debug Bridge version 1.0.41
Version 34.0.0-9570255
Installed as C:\platform-tools\adb.exe
```

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 shell pm 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
```

Bypass Lock Screen:

```
adb shell rm /data/system/gesture.key
```

```
adb reboot
```