

# Android Environment Setup for Mobile Test Execution

### • Setup on Android Device

**Step 1:** Go to Settings of the Android Device

**Step 2:** Enable Developer Options by tapping Build Number for 7 times under About Phone menu

**Step 3:** Enable USB Debugging and Stay Awake option under the Developer Options menu

#### • Setup on Desktop PC

Step 1: Install Android SDK

Step 2: Install Appium Server

## **Process to Execute Test Cases on Android Emulator**

**Step 1:** Create and start a new device by using AVD Manager.

**Step 2:** Start the Appium Server.

Step 3: Copy the Appium Server Address and Port Number

**Step 4:** Paste the copied Server Address and Port Number into Server URL field – TestingWhiz Settings>Configuration>Mobile Testing>Android

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**Step 5:** Copy the Android Emulator Name.

**Step 6:** Paste the copied Emulator Name into Device Name field - TestingWhiz Settings>Configuration>Mobile Testing>Android

P	Confi	guration		- 🗆 🗙	× 4	Android V	irtual Dev	ice Manager						-		×
General a Execution Preferences       Android         URL:       http://127.00.1.4723/wd/hub         Device Name:       Oreco         Coud Execution Addroid       Device Name:         Oreco       Count Execution Command Timeout:       Solu         Android       Test Web Application (OS         Brower Name:       Brower Name:       Brower Name:         Brower Name:       Brower Name:       Brower Name:         Brower Name:       Brower Name:       Brower Name:         Database FTP       Specify the AVD Name in TestingWhiz Device Name:         Out additional Capabilities       Use Additional Capabilities         Database FTP       Capability Value       Application Edit         PreisingWhiz Grid Report Repository       Remove         Install/Update       Test mangement Tool																
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						+ Creat	e Virtual [	Device						8	?	

**Note:** With the latest release v7.0, you will be able to add any desired capability offered by appium from TestingWhiz

Add appium Capability details by clicking on the 'Add' Icon shown above, check 'Use Additional Capabilities' checkbox to use it in the Test scenarios

**Step 7:** Apply and Test the Connection.

**Step 8:** Close the Configuration Window.

Step 9: Execute the Test Case on Android Emulator.

#### **Process to Execute Test Cases On a Real Android Device**

**Step 1:** Connect a real Android device with the Desktop PC using a cable.

**Step 2:** Start the Appium Server.

**Step 3:** Copy the Appium Server Address and Port Number.

**Step 4:** Paste the copied Server Address and Port Number into Server URL field - TestingWhiz Settings>Configuration>Mobile Testing>Android.



<sup>(2)</sup>	Configuration	- 🗆 🗙	Appium	-	×
General • Execution	Android		File View Help		
General J Execution Preferences D Add-ons Cloud Execution J Mobile Testing Android iOS Report Recording Data Validation Rules Screen Mail Database FTP	Android       URL:     http://127.0.0.1.4723/wd/hub       Device Name:     Oreo       Command Timeout:     5000       Test Web Application     Browser Name:       Browser Name:     DxTestingWhitapk       Use Additional Capabilities     Capability       Value     Application	Add	File View Help		
FTP TestingVht2 Grid Report Repository ▷ Big Tracking Tool ▷ Test Management Tool ▷ Version Control ▷ Install/Update	Provided Server address and port number i Appium settings, is to be mentioned in TestingWhiz Android URL above Test Connection Apply OK	Restore Defaults Cancel	Host 127.0.1 Port 4723 Start Server v1.9.1 Edit Configurations ©		

**Step 5:** Press Shift + Right Click to open command prompt under Platform-tools folder of Android SDK.

**Step 6:** Run 'adb devices' command and copy the Device ID.

**Step 7:** Paste the Device ID into Device Name field- TestingWhiz Settings > Configuration>Mobile Testing>Android

0	Config	uration		– 🗆 🗙	C:\WINDOWS\system32\cmd.exe	-				
General A Execution	Android				C:\Android\Sdk\platform-tools>adb devices					
Preferences	URL:	http://127.	0.0.1.4723/wd/hub		List of devices attached					
> Add-ons	Device Name:	ZX1D64NC	MO							
Cloud Execution										
Mobile Testing	Command Timeour	Test Web Application			C:\Android\Sdk\platform-tools>_					
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Test Management Tool				_						
Version Control				_						
Install/Update										
			Test Connection	Restore Defaults						
			Apply							
			ОК	Cancel						



**Step 8:** Apply and Test the Connection.

**Step 9:** Close the Configuration Window.

**Step 10:** Execute the Test Case on a real Android Device.

**Note:** For Web Application testing, check the "Test Web Application" option available within the Android Configuration, select the Browser and click on Apply