

iOS Environment Setup for Mobile Test Execution

• Setup to be done on iOS Device.

Enable the following settings in iOS Device Settings >> Safari >> Advanced >> Web Inspector

• Setup to be done on the MAC System

- Install Apple XCode (10.11 or higher)
- Install Appium (1.13.0) Server

• Process to execute test cases in iOS Simulator

Step 1: Download Simulator with iOS versions supported by Appium.

Step 2: Create and start a new iOS Simulator Device by using XCode. This will start your iOS Simulator.

Step 3: Open the Appium Server.

Step 4: In General Settings of Appium, copy the Appium Server Address and Port Number.

Step 5: Paste the copied Server Address and Port Number into TestingWhiz Server URL field - Settings >> Configuration >> iOS >> Server URL

8	Configur	ation	- 🗆 🗙	0	Appium	- 🗆 🗙	
General	iOS			<u>File View</u> Help			
 Execution Add-ons Cloud Execution Mobile Testing Android iOS Report Recording Data Validation Rules Screen Mail Database FTP TestingWhiz Grid Report Repository Bug Tracking Tool Test Management Tool Version Control 	URL: Device Name: Platform Version: Command Timeout: UDID: Tigst Web Application Browser Name: Application Path: Tigst on Real Device	http://192.192.123.123.4723/wd/ iPhone XR 12.4 50000 DC 52D17E-2F3A-4313-A600-FE4 on fari	hub 1DCFFDSDF		Serete Advanced Presets		
	<u>کر</u> codeOrgld: کر کرcodeSignInId: کر کیse Additional Cap	pabilities			Port 4723 Start Server v1.13.0		
	Capability	Value Application	Edit Remove		Edit Configurations 🕸		
		Test Connectio Apply OK	n Restore Defaults				



Step 6: Copy the iOS Simulator name, version and identifier and paste it into TestingWhiz - Settings >>Configuration >> iOS >> Device Name, Platform Version and UDID respectively

		02	Configuration		_ □
			iOS		
••	Devices Simulators		URL: http://1	92.192.123.123:4723/wd/hu	b
		Constanting of the	Device Name: iPhone	XR	
Pad (5th generation) IPhOne XR Pad (6th generation) IPhone XR IPhone XR			Platform Version: 12.4		
iPad Air Model: iPhone Xa		anuw as run destination	Command Timeout: 50000		
iPad Air (3rd generation) Identifier: DC52D	17E-2F3A-4313-A600-FE41DCFFD5DF			7E-2F3A-4313-A600-FE41D	CFFD5DF
iPad Air 2		dina dia mandri dia	✓ Test Web Application		
iPad Pro (9.7-inch) iPad Pro (10.5-inch)			Browser Name: safari		
iPad Pro (11-inch)		life Distributes	Application Path:		
iPad Pro (12.9-inch)	5		Test on Real Device		
iPad Pro (12.9-inch) (2nd	Modei	watchOS Identifier	XcodeOrgId:		
iPhone 6		loo <mark>o</mark> ol and a second second			
iPhone 6 Plus		bitta di Catta di Ca	Use Additional Capabilities		
iPhone 6s			Capability Value	Application	Add
iPhone 5 Plus					Edit
iPhone 7 Plus					Famo
්) iPhone 8					IVEITIO
Phone 8 Plus					
IPhone SE					
				Test Connection	Restore Def
				Annh	
				арруу	
				04	Canad
				UK	Cancel

Step 7: Select the "Test Web Application" if it is web Scripts and if it is native application testing then Uncheck that check box and provide Application path *Note: That application must be available in the same system where appium installed*

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

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 8: Close the configuration window of TestingWhiz

Step 9: Go to iOS settings of Appium and check the following:

- i. To check the script in Web, check the Mobile Safari option
- ii. To check an application, provide .app file with Simulator name and verify the version.

Step 10: Launch Appium and now you are ready to execute your test cases in an iOS Simulator.



• Process to execute test cases in iOS Real Device using TestingWhiz.

Pre-Requisites:

- 1. Mac OS: 10.11 or higher
- 2. XCode: 7 or higher
- 3. IOS Developer Account
- 4. IOS Mobile Device 9.3 or higher (it must be registered with provided developer account)
- 5. Appium 1.13.0

Steps:

Step 1: Go to the "Application" folder in MAC machine >> Select Appium (Right Click on it) >> Show Package Contents >> resources >> app >> node_modules >> appium >> node_modules >> appium-xcuitest-driver

Step 2: Double click on WebDriverAgent.xcodeproj (if Xcode is configured it will open project in Xcode)

Step 3: For Appium XCUITest Driver Real Device Setup

Follow the steps from the link below

http://appium.io/docs/en/drivers/ios-xcuitest-real-devices/

Step 4: Connect the real iOS device to the Mac PC.

Step 5: After the Setup is completed,

Go to TestingWhiz >>Settings >> Configuration >> iOS

Perform the steps mentioned in the above ' **Process to execute test cases in iOS Simulator** '

Step 6: Check the "Test On Real Device option in TestingWhiz >> Settings >>Configuration>>Mobile Testing >>IOS

Define xcodeOrgId: --> Apple Developer Portal >> Account >> Membership >> Team ID OR you can find it in build certificate >>Details >> Organizational Unit

Define xcodeSigningId: --> By default it is "iPhone Developer" or "IOS Developer"



for e.g. You can also copy the details from IOS signing certificate for that application as shown below

(C)	Configu	iration	-	. 🗆 🗙				
General Execution	iOS				Centificate			
> Add-ons	URL:	http://192.192.123.123;	4723/wd/hub		Expires: Thursday, 9 April 2020 at 10:34:10 AM India Standard Time			
> Cloud Execution	Device Name:	iPhone XR 12.4			_	🔮 This certifi	icate is valid	
Mobile Testing	Platform Version:				> Trust			
iOS					▼ Details Subleat None			
Report	Command Timeout:	50000				User ID		
Recording	UDID:	DC52D17E-2F3A-4313-/	A600-FE41DCFFD5DF		Cor	mmon Name	iPhone Developer:	
Data Validation Rules	Test Web Application				Organisational Unit			
Mail	Browser Name: sa	owser Name: safari 🗸 🗸				Organisation		
Database	Application Path:		_		Count	ry or Region		
FTP	Test on Real Device	. //			ssuer Name			
TestingWhiz Grid	XcodeOrgid: XYZ1234XYZ XcodeSignInld: iPhone Developer				Count	ry or Region	US	
Bug Tracking Tool						Organisation	Apple Inc.	
Test Management Tool					Organis	sational Unit	Apple Worldwide Developer Relations	
Version Control	Use Additional Cap	abilities				ninon Hamu	Apple Hondwide Developer Relations Certification Admonty	
	Capability	/alue Appli	cation	Add	Se	rial Number		
	capability	aue Appin	cation	100	Signatur	Version Algorithm	3 SHA-256 with PSA Encountion (12 840 113549 1 1 11)	
				Edit	aignatur	Parameters	None	
			1	Remove				
	Test Connection Restore Defaults			tore Defaults				
			Apply					
			UKhik					
			ОК	Cancel				

Step 7: Install **ios_webkit_debug_proxy** from "<u>https://github.com/google/ios-webkit-debug-proxy</u>" and follow the steps mentioned in it.

Step 8: Open Terminal and execute "ios_webkit_debug_proxy -c "UDID of Device: 27753" -d" command. (Only if it is a web script)

Step 9: Launch Appium and now you are ready to execute your test cases in iOS Real Device.