

# Using Appium Desktop

Listing down the steps to use Headspin with Appium Desktop

Do note that all documentation can be seen at:

<https://ui-dev.headspin.io/docs>

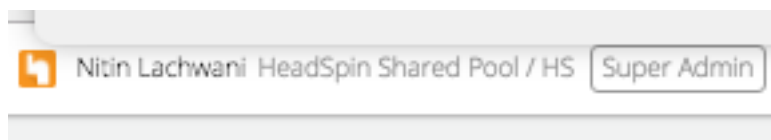
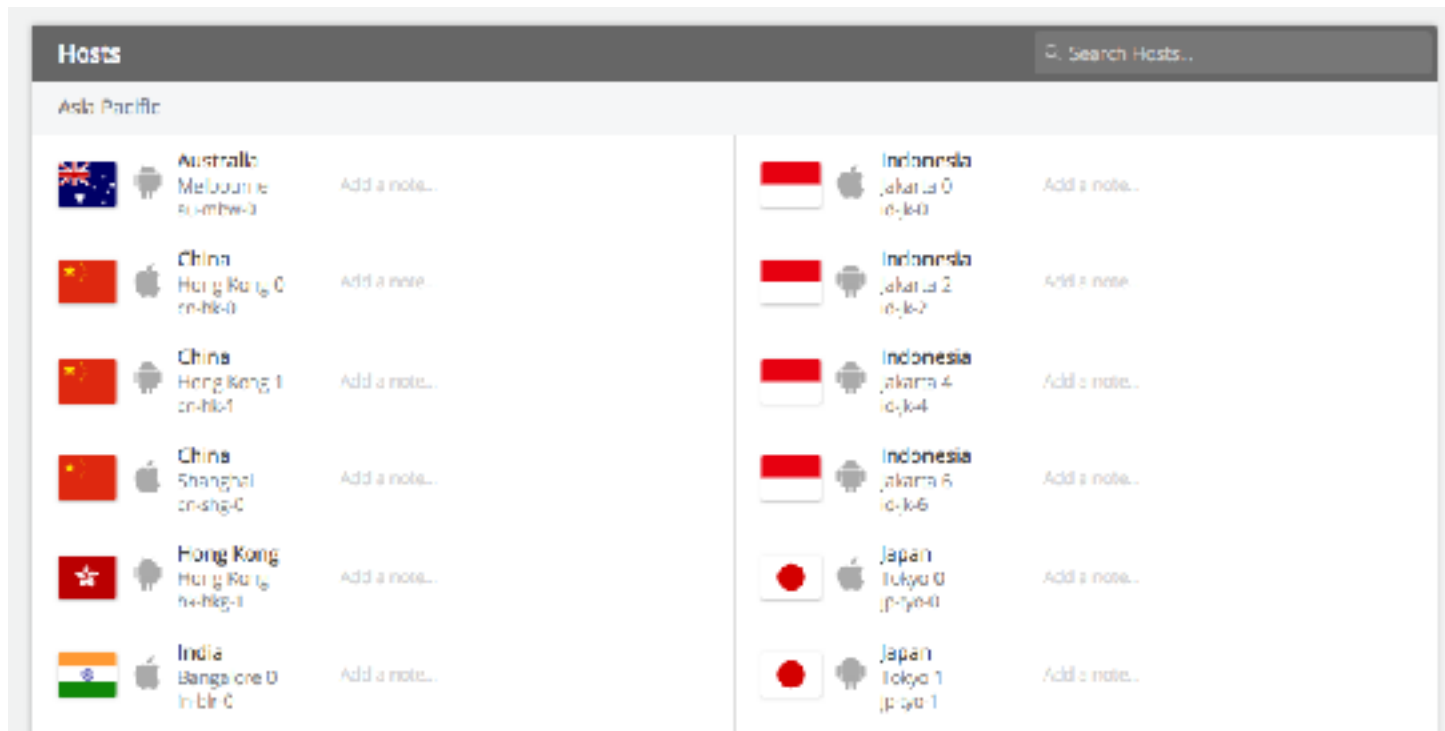
Platform setup: <https://ui-dev.headspin.io/docs/platform-api>

Getting started with Appium: <https://ui-dev.headspin.io/docs/appium-getting-started>

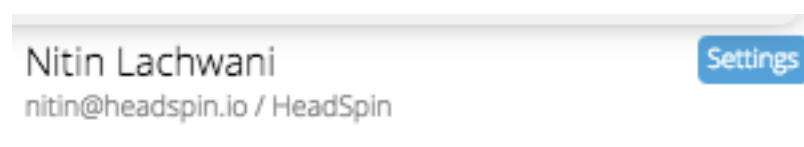
Appium Desktop: <https://ui-dev.headspin.io/docs/appium-desktop>

## Using Appium Desktop...

1. Open Remote control UI in your browser
2. Go to the UI and click on top right role (Super Admin or Team member)



3. Click on the blue settings button



4. If no token found, click on "+ New Token" and generate a new one. For example - My user token is `be06f02134434e2a91c53b2ac249d6f3`.  
I will use these in the commands below. You will need to use the token you generate for your user ID

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API Tokens	
Token	Created
be06f02134434e2a91c53b2ac249d6f3	Jul 27, 2018 1:14:34 AM

5. Click on a city to access devices e.g. click on Bangalore



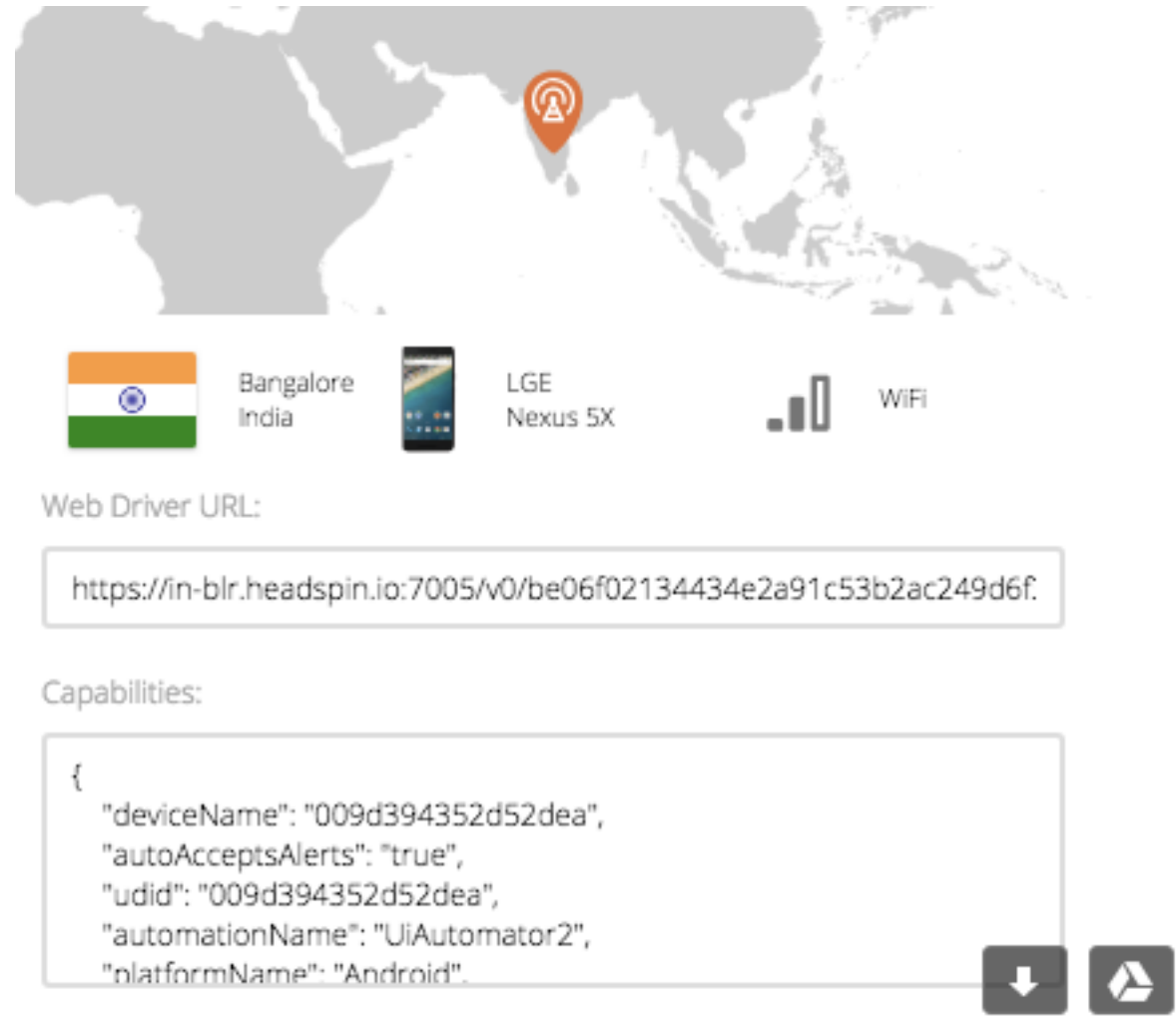
City	Status	Device	Location	Device Note	Audio	Serial	Carrier	Network
	Start	LGE Nexus 5X	India Bangalore	Add a note...	🔊	009d39d52d52dea	-	
+	Start	LGE Nexus 5X	India Bangalore	Add a note...		009f6c07a4d39c4	-	
+	Start	LGE Nexus 5X	India Bangalore	Add a note...		009662a12c8a9566	-	

6. Click on "More Actions" > Automation



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7. Configurations details are displayed

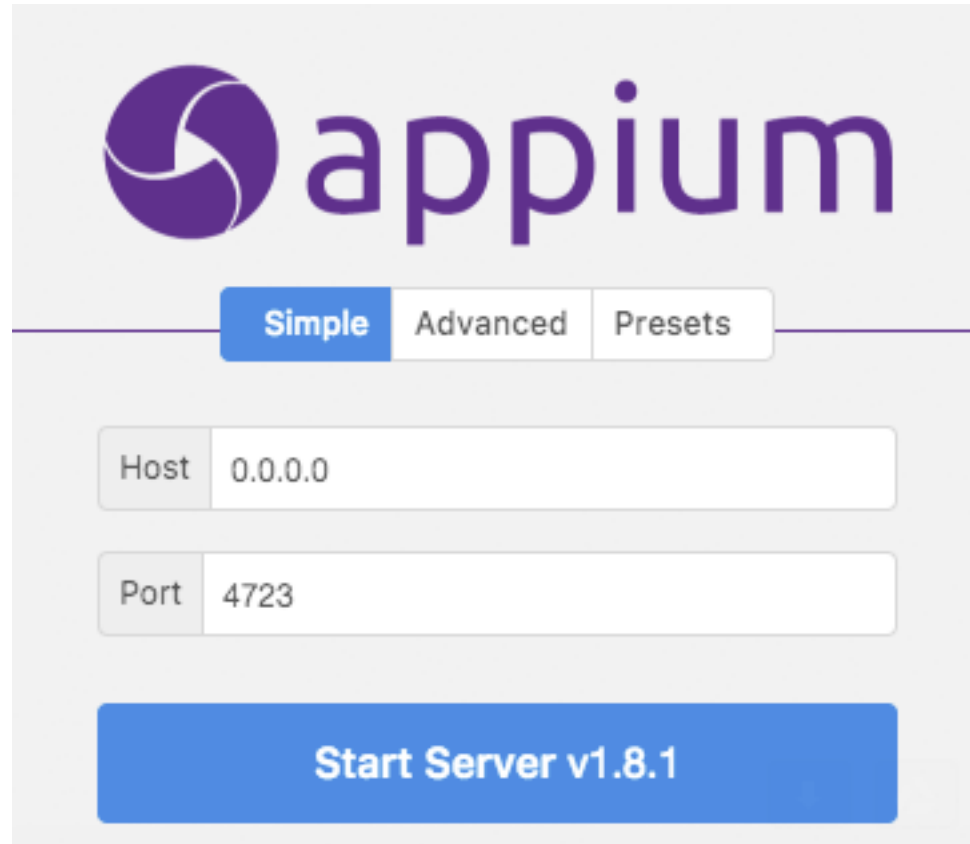


The screenshot displays the configuration details for a device in Bangalore, India. It includes a map of India with a location pin over Bangalore, the Indian flag, the text "Bangalore India", a mobile phone icon, the text "LGE Nexus 5X", a signal strength icon, and the text "WiFi". Below this, the "Web Driver URL" is shown as `https://in-blr.headspin.io:7005/v0/be06f02134434e2a91c53b2ac249d6f`. The "Capabilities" section shows a JSON object with the following properties: `"deviceName": "009d394352d52dea", "autoAcceptsAlerts": "true", "udid": "009d394352d52dea", "automationName": "UiAutomator2", "platformName": "Android"`. There are two icons at the bottom right of the capabilities box: a download arrow and a refresh icon.

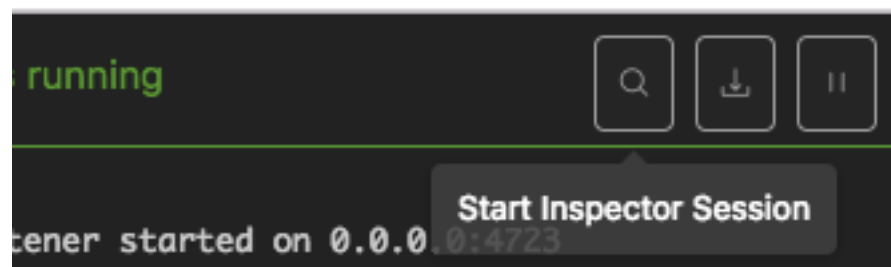
Please note the details from above screen

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8. Open Appium desktop and start the server



9. Click on "Start Inspector



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9. Click on Headspin Tab and provide details

The screenshot shows the Appium Desktop configuration interface. At the top, there are tabs for 'Automatic Server', 'Custom Server', 'SAUCELABS', 'TestObject', 'headspin' (selected), and 'BrowserStack'. Below the tabs, there are input fields for 'Headspin Host' (in-blr.headspin.io) and 'Headspin Port' (7005). A 'Headspin API Token' field is present with a masked token. A link for '> Advanced Settings' is visible. The main configuration area is divided into three sections: 'Desired Capabilities', 'Saved Capability Sets (0)', and 'Attach to Session...'. The 'Desired Capabilities' section contains a table with the following data:

Capability	Type	Value	Action
deviceName	text	009d394352d52dea	Remove
automationName	text	UiAutomator2	Remove
udid	text	009d394352d52dea	Remove
noReset	boolean	true	Remove
appPackage	text	org.zwanoo.android.sp	Remove
appActivity	text	com.nokia.speedtest.s	Remove

The 'Attach to Session...' section shows a JSON configuration for the session:

```
{
  "platformName": "Android",
  "deviceName": "009d394352d52dea",
  "automationName": "UiAutomator2",
  "udid": "009d394352d52dea",
  "noReset": true,
  "appPackage": "org.zwanoo.android.speedtest",
  "appActivity": "com.nokia.speedtest.softfacade.MainActivity"
}
```

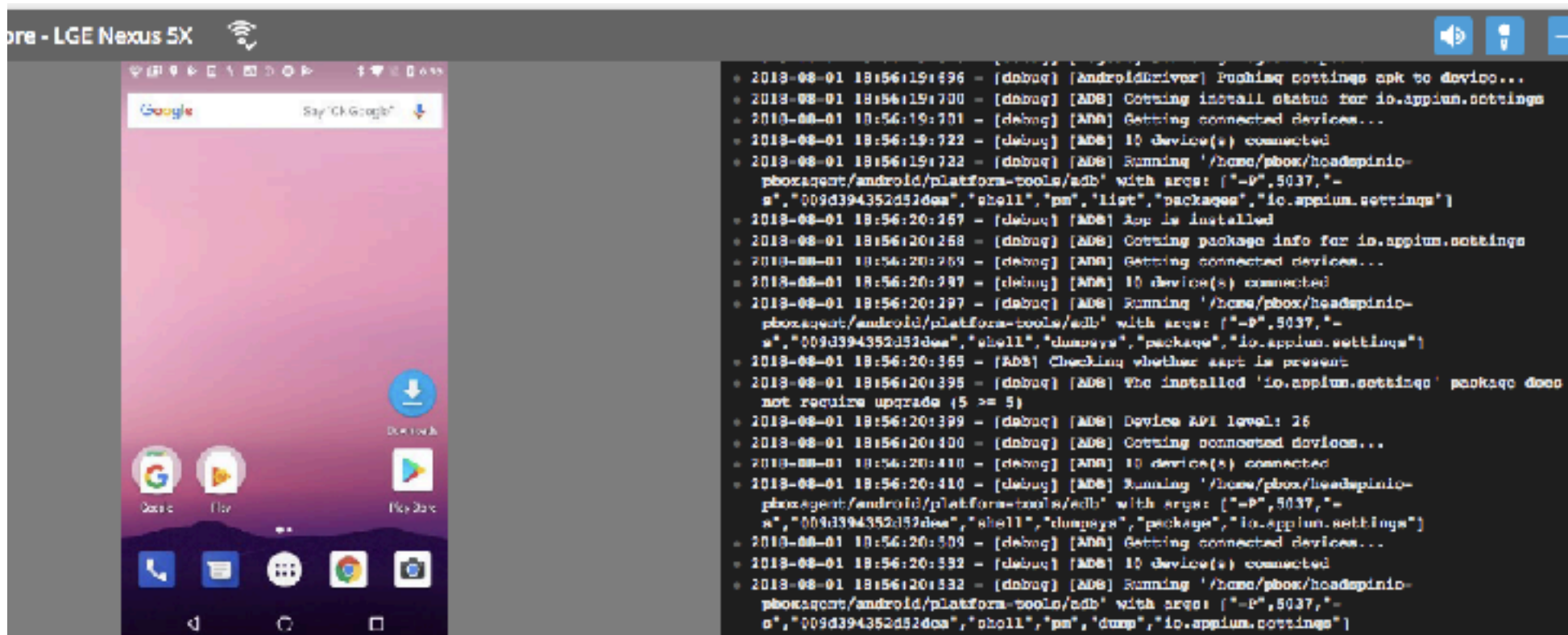
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10. Click Start session and device will go in "Read only" Mode



Click on the Blue icon to view the activities.

Click on Show logs in the bottom right



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The screenshot displays the Appium Desktop interface. On the left, a mobile app interface is shown with a large green 'GO' button. The top status bar shows 'SPEEDTEST' and the time '2:00'. The bottom navigation bar includes icons for Home, Results, Coverage, Settings, and VPN. The middle section, titled 'App Source', shows a tree view of the app's UI hierarchy. The right section, titled 'Selected Element', shows the details of the selected 'GO' button, including its accessibility id, id, and xpath, along with a table of its attributes and values.

**App Source**

- <android.widget.FrameLayout>
  - <android.widget.LinearLayout>
    - <android.widget.FrameLayout>
      - <android.widget.LinearLayout resource-id="org.zwanoo.an">
        - <android.widget.FrameLayout resource-id="android:id/c">
          - <android.view.ViewGroup resource-id="org.zwanoo.a">
            - <android.widget.FrameLayout resource-id="org.z">
              - <android.widget.FrameLayout resource-id="or">
                - <android.view.ViewGroup resource-id="org">
                  - <android.view.ViewGroup resource-id=">
                    - <android.view.View content-desc="Start">
                  - <android.view.ViewGroup resource-id=">
                    - <android.widget.FrameLayout resource-=">
                      - <android.widget.FrameLayout resource-id="org.z">

**Selected Element**

Top Send Keys Clear

| Find By          | Selector   |
|------------------|--|
| accessibility id | Start a Speedtes<br>t  |
| id               | org.zwanoo.andr<br>oid.speedtestid/<br>go_button                   |
| xpath            | //android.view.Vi<br>ew[@content-de<br>sc="Start a Spee<br>dtest"] |

| Attribute | Value            |
|-----------|------------------|
| index     | 1                |
| text      | android.view.Via |



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How to use Automation Config API for getting back the Appium capabilities and Web Driver URL of your devices

<https://{your-api-token}@api-dev.headspin.io/v0/devices/automation-config>

The JSON returned back will look like this:

```
...
},
"009ca753e1509a72@proxy-ph-mnl-4.headspin.io": {
  "device_location": {
    "city": "mnl",
    "carrier": true,
    "country_readable": "Philippines",
    "city_readable": "Manila",
    "lat": 14.569815,
    "country": "ph",
    "lon": 121.005741
  },
  "lock_url": "https://ph-mnl.headspin.io:3005/v0/{api_token}/lock",
  "working_dir": "/home/pbox/appium_tests/009ca753e1509a72",
  "capabilities": {
    "deviceName": "009ca753e1509a72",
    "autoAcceptsAlerts": "true",
    "udid": "009ca753e1509a72",
    "automationName": "UiAutomator2",
    "platformName": "Android",
    "noReset": "true"
  },
  "host": "proxy-ph-mnl-4.headspin.io",
  "unlock_url": "https://ph-mnl.headspin.io:3005/v0/{api_token}/unlock",
  "driver_url": "https://ph-mnl.headspin.io:3005/v0/{api_token}/wd/hub",
  "device_carrier": {
    "network_subtype": "HSPA",
    "network_connected": true,
    "network_type": "4G",
    "phone_network": "Star Mobile",
    "carrier": true
  },
  "os": "android",
  "control_url": "https://ph-mnl.headspin.io:17100"
},
...
```

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The "**capabilities**" key has the optimal required Appium capabilities to use for a given device and the "**driver\_url**" key is the Web Driver URL of the HeadSpin Appium Server.