

Real Device Cloud

ACCELERATE MOBILE APP TESTING WITH INSTANT ACCESS TO IOS AND ANDROID DEVICES

Sauce Labs offers multiple highly secure cloud solutions supporting mobile web, hybrid and native app testing: a private cloud, ideal for customers requiring dedicated devices, and a public cloud with a wide range of devices to broaden test coverage. Both clouds support automated and manual mobile tests across iOS and Android devices, and are compatible with popular mobile testing frameworks including Appium, Espresso and XCUITest.

PUBLIC CLOUD

Our public cloud is a secure solution that enables manual and automated testing on hundreds of iOS and Android device models.¹ The public cloud is best used for running manual and automated tests across a wide variety of devices so you can increase test coverage and improve your app quality. To ensure maximum privacy, all devices are thoroughly cleaned after each use with network and device settings reset so none of your data will ever be exposed to other users.

The public cloud offers a diversified device pool to enable edge case testing on devices that may not be in your private cloud and is ideal for manual bug reproduction occurring on specific devices, however, it is a shared resource so your tests may be queued if the devices are not available. For exclusive device access many organizations choose the private cloud option.

PRIVATE CLOUD

Our private cloud is designed for those that need the highest security, as well as for those who test frequently on specific devices as part of a CI/CD pipeline. Having devices available for you 24/7 enables faster development and deployment because you control the schedule of your devices. Dedicated devices provide the highest security as only you and your team have access and, as an extra layer of security, all communication is secured via an IPSec VPN connection or with our secure proxy server, Sauce Connect. And, with your own devices, you can enable custom settings so that all your tests can run using the same parameters.

The private cloud offers dedicated access to testing devices which is essential to any organization following a CI/CD development model. It also includes features like Virtual USB for live debugging and device inspection as well as options to add SIM cards to trigger SMS/calls. To help offset costs most of our users also test on devices in our public cloud to broaden test coverage.

¹ <https://saucelabs.com/platform/supported-browsers-devices>

LIVE TESTING

Interactively test your web and mobile apps manually to make sure your apps work flawlessly across the mobile devices, operating systems, and resolutions that matter most to your users. Use manual testing for your stable features when you need to verify your app will work across different device models and form factors, which is important for user experience (UX) testing. With a few clicks you instantly have the devices you need at your fingertips which makes debugging your apps a breeze.

The screenshot shows the Sauce Labs Live Mobile-App testing interface. The sidebar on the left contains navigation options: GETTING STARTED, LIVE, Test Results, Mobile-App (highlighted), Cross-Browser, AUTOMATED, INSIGHTS, SAUCE APPS, TUNNELS, and USAGE. The main content area displays a search bar with '(57)' results and 'Filters (1)'. Below the search bar, there are filters for 'SAUCE CONNECT: No Active Tunnels', 'DEVICE LOCATION: US', and 'SORT BY: A to Z'. A grid of 16 device cards is shown, each representing a different iPhone model and iOS version, such as iPhone 11, iPhone 11 Pro, iPhone 11 Pro Max, iPhone 5, iPhone 5C, iPhone 5S, and iPhone 6. Some cards are marked as 'BUSY'.

AUTOMATED TESTING

Use your existing test scripts with standard automation tools like Appium, XCUITest, and Espresso to test your native, hybrid, and web apps on real devices. Use automated testing to automate your functional testing and use all the gestures and touch actions on our device cloud as if the devices were in your hand.



Appium is an automation tool to test native and hybrid apps, as well as mobile websites. It drives iOS, Android, and Windows apps using the WebDriver protocol.



XCUITest is a test automation tool for iOS applications developed by Apple.



Espresso is a test automation tool for Android applications developed by Google.

KEY FEATURES

Biometric Authentication: Enables you to test login authentication with FaceID or TouchID.

Camera Image Injection: Enables you to mimic camera behavior when testing applications (e.g. barcode, check scanning) by letting you upload an image (in .jpeg .jpg, or .png format) from your computer or another location and presenting it to the application as if it was taken by the device camera.

Device Vitals: Collects useful performance data in real time from a device during a live session. Data such as network, CPU, and memory usage helps you understand the general performance of a device and the application under test. You can view a graph of this performance data in real time as the app is processing.

GPS Simulation: Enables you to adjust the GPS location on the device as necessary to test geolocation-based applications.

Mobile Carrier Networks: Allows you to connect one or more of your private devices to a carrier network in order to complete testing scenarios which are not feasible using a WiFi only connection, e.g. dial and text message to/from the device.

Static/Dynamic Device Allocation: Increases test performance by enabling you to either specify a device or set ranges, which gives you a random device within the specified range that is currently available, ultimately decreasing wait time. Dynamic allocation is recommended for automated mobile app testing in CI/CD environments.

Virtual USB: Simulates connecting a real device with a USB cable directly to your local machine during a live or automated testing session. Virtual USB lets you interact directly with a private cloud device via an integrated development environment like Android Studio and Xcode, or browser-based tools like Chrome DevTools and Safari Web Inspector. You can also use the automation framework of your choice, beyond Appium, Espresso and XCUITest.

PLAN DETAILS

With our Real Device Cloud we offer flexible subscription plans to meet your needs. Here's a breakdown on what's included with each type of subscription.

	Self-Service (Public Cloud)	Enterprise (Public Cloud)	Enterprise (Private Cloud)
Features			
Automated testing minutes	Unlimited	Unlimited	Unlimited
Live testing minutes	Unlimited	Unlimited	Unlimited
Test framework support (Appium, Espresso, XCUITest)	✓	✓	✓
Biometric Authentication	✓	✓	✓
Device Vitals	✓	✓	✓

	Self-Service (Public Cloud)	Enterprise (Public Cloud)	Enterprise (Private Cloud)
Features (continued)			
Camera Image Injection	✓	✓	✓
GPS Simulation	✓	✓	✓
Third party dependency app support	✓	✓	✓
Static/Dynamic device allocation	✓	✓	✓
Mobile Carrier Network Connectivity	✓	✓	✓ ²
Virtual USB	✓	✓	✓
Exclusive device access	✓	✓	✓
Enterprise app certificate support	✓	✓	✓
Whitelisting apps	✓	✓	✓
Enterprise Security			
Sauce Connect (secure proxy server)	✓	✓	✓
Single Sign On (SSO) Integration	✓	✓	✓
IPSec VPN	✓	✓	✓
Identity and Access Management			
Team management	Single team admin	Multiple team admins	Multiple team admins
Unlimited users	✓	✓	✓
Custom logout URL redirect	✓	✓	✓
Support			
Support level	Email, Online	Email, Online, Phone ³	
Response time SLA	1 business day	1 hour, 4 business hours, and 6 business hours for severity 1, 2, and 3 issues ³	
Customer Success Manager	✓	✓	
Access to Automation Architects	✓	✓	
Payment terms			
Commitment	Monthly/Annual	Annual	

² Adding SIM cards to private devices is an additional cost

³ For Platinum support. For further details see <https://saucelabs.com/support/policy>