

Getting Started with Sauce Headless

Sauce Headless is a container-based, lightweight, and scalable infrastructure solution for testing web apps on headless Chrome and Firefox browsers in our virtual device cloud. Test early in your development cycle on headless browsers to get fast pass/fail data on early pipeline component tests, sanity checks, and pull request tests.

There are a few key differences between setting up Sauce Headless tests versus setting up [other Sauce Labs automated web app tests](#), as described below.

See the following sections for more information:

- [What You'll Need](#)
- [Setting Up Headless Testing on Sauce Labs](#)
 - [WebDriver Capabilities](#)
 - [Language Bindings](#)
- [Data Center Endpoints for Sauce Headless](#)
- [Using the Sauce Headless Web UI](#)
- [Sauce Connect Proxy for Headless Testing](#)
- [Video Tutorial: Running Headless Tests](#)

What You'll Need

ENTERPRISE PLANS ONLY

If you plan to run Headless tests in conjunction with Sauce Connect Proxy, we strongly recommend using the [latest version](#) of Sauce Connect Proxy.

NOTE: At this time, data from tests run in Headless mode is not available to the [Sauce Insights](#) analytics features.

Setting Up Headless Testing on Sauce Labs

Sauce Headless provides headless Chrome and Firefox in the three most recent versions and the most recent version of Linux.

WebDriver Capabilities

Set the desired capabilities in your test to use headless testing, as shown in this example:

```
saucelabs_headless_chrome": {
  "request_timeout_options": {
    "timeout": 900000
  },
  "globals": {
    "waitForConditionTimeout": 60000,
    "waitForConditionPollInterval": 100
  },
  "use_ssl": true,
  "selenium_port": 443,
  "selenium_host": "us-east1.headless.saucelabs.com",
  "desiredCapabilities": {
    "browserName": "chrome",
    "version": "latest-2",
    "platform": "Linux",
    "javascriptEnabled": true
  }
},
```

Language Bindings

Select a desired programming language and test framework to see working samples of headless tests running on Sauce Labs.

Test Frameworks

Data Center Endpoints for Sauce Headless

The containers used for Sauce Headless testing are hosted in the Sauce Labs East Coast data center, which is entirely separate from our data centers in the West Coast and in the EU. You'll need to connect to the [US-East Data Center](#) to access the web UI, Selenium endpoint, and Sauce Connect Proxy endpoint for headless testing.

The US-East IP addresses should be reachable from your network. If there's an issue, see the Whitelisting for Restricted Networks section of [System and Network Requirements for Sauce Connect Proxy](#).

NOTE: Cross-Browser VMs are not available at this time in US-East.

Using the Sauce Headless Web UI

Information about your Headless testing jobs is accessible by logging into the headless testing web interface.

- Direct Web Interface Link: <https://app.us-east-1.saucelabs.com>
- Select **Headless US-East** from the Sauce Labs dropdown menu

If you want to use a Sauce Connect Proxy tunnel for your Sauce Headless tests, you'll need to start it from here in the UI.

Sauce Connect Proxy for Headless Testing

If you're testing website that's on your local machine or behind a corporate firewall, we recommend using [Sauce Connect Proxy](#).

To use it in conjunction with your Sauce Headless tests, be sure you have the [latest version](#) on your machine. You'll need to start a new, separate tunnel from the one used for the Virtual and Real Device Cloud, by connecting to the Sauce Headless-specific endpoint (see [Data Center Endpoints](#)).

Video Tutorial: Running Headless Tests

This video shows you how to configure your early pipeline tests to run in Sauce Headless. It also includes advice on which of your tests might be a good candidate for this lightweight and cost-effective testing solution.