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1 PURPOSE

This work instruction supports the use of SauceLabs which is a testing platform for web and mobile applications enabling the Users to run their tests across Desktops, Emulators, Simulators and real Devices to support software delivery process and product developments following the defined processes.

This document covers the below instructions:

- Pre-requisites of User and Project onboarding
- How to get SAFE ID access in PAM
- How to create the Tunnel
- How to perform a sample Test from Saucelabs

2 SCOPE

2.1 Description/ of activity/task

In Scope

DDIT managed applications, systems, and software development

Out of scope

Those applications/systems practicing Agile that are not managed by DDIT

2.2 Target Audience

This Work Instruction applies to the following functions/roles as a minimum.

Function	Roles
DDIT	Product Owner (PO)
DDIT	Product Manager (PM)
DDIT	Scrum Master (SM)
DDIT	Test Manager, Test Coordinator, Tester, Test Analyst, Test Reviewer,

3 INSTRUCTIONS

3.1 Steps for activity/task

Responsible (Project Team)	Activity/Task
Test Manager, Test Coordinator, Tester, Test Analyst, Test Reviewer	<ol style="list-style-type: none"> 1. Responsible for all test phases – unit, system, integration and functional testing and acceptance 2. Ensure that all required testing deliverables are created including testing approach, testing scenarios, conditions and expected results, test scripts and testing control sheets 3. Execute formal review cycles including informal review, formal review, testing sign-off and quality assurance review

3.1.1 Pre-requisites

3.1.1.1 For User Onboarding

- a. End users must have PAM access.
- b. End users will need to reach out to Ops team through SNOW onboarding with this Form - [here](#) to onboard users to Saucelabs.

3.1.1.2 For Project Onboarding

End users will need to reach out to Ops team through SNOW onboarding with this Form - [here](#)

3.1.1.3 End users will provide the following information of their application Or user onboarding which is part of snow template

Project Onboarding - Custom fields	
Sequence	Field Name
1	Application /Team Name
If application is hosted on intranet, will provide the below details	
(Sequence)	Information
2	Application ips
3	Application url
4	Application HealthCheck Port Number
5	Application Listening Port Number

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User Onboarding - Custom fields

Sequence	Field Name
1	Application /Team Name
2	Role

Mandatory: -

1	Should attach required Up4Growth training completion certificate (Common for all Roles)
2	Please attach your manager's approval email, for your access and role assignment to this project, as this will be subject to license cross charging

3.1.2 How to get SAFE ID access in PAM

- a. Login into go/aps with 521 ID
- b. In Home page, select "Request Access" tile and click "Request for Self ":

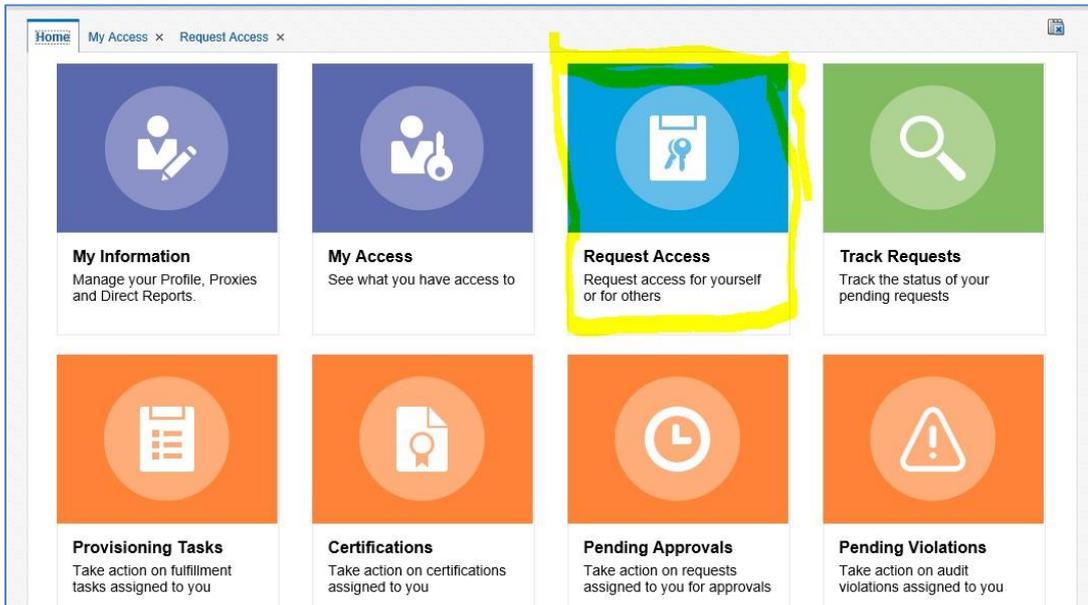


Figure 1

- c. In Request Access page, enter " PAM_UNIX_50786EndUser_APP" in search bar and click add to cart on the rows with name prefix "APP" as shown below

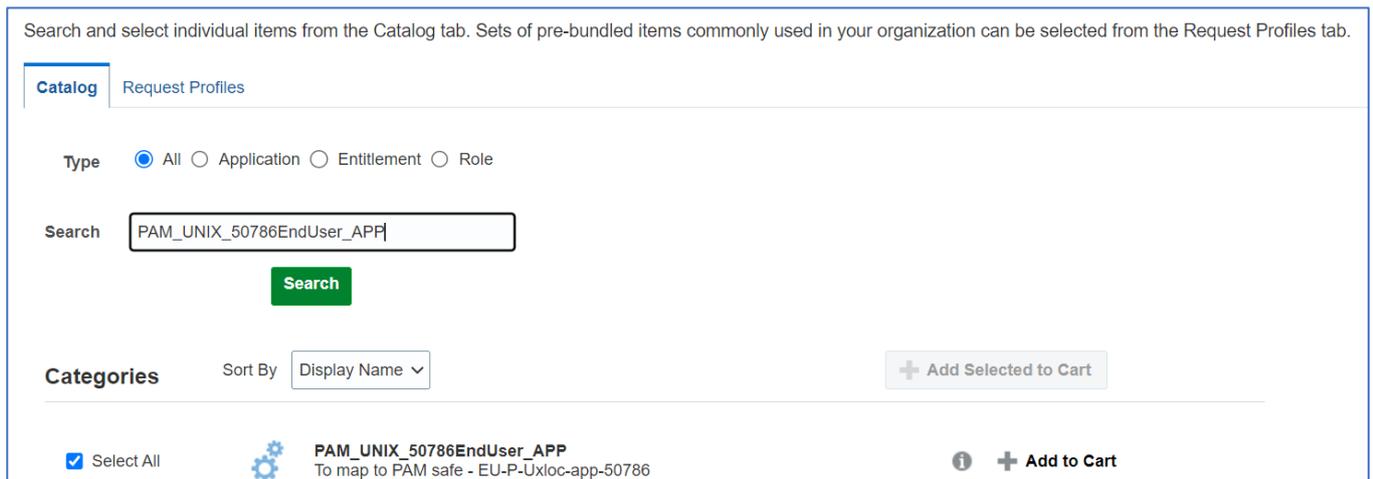


Figure 2

- d. In cart page, provide the reason to get access. Place your order

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- e. After the request is approved, users will be able to list the PAM_UNIX_50786EndUser_APP related servers in PAM.
- glgbln-sp928479
 - glgbln-sp928095

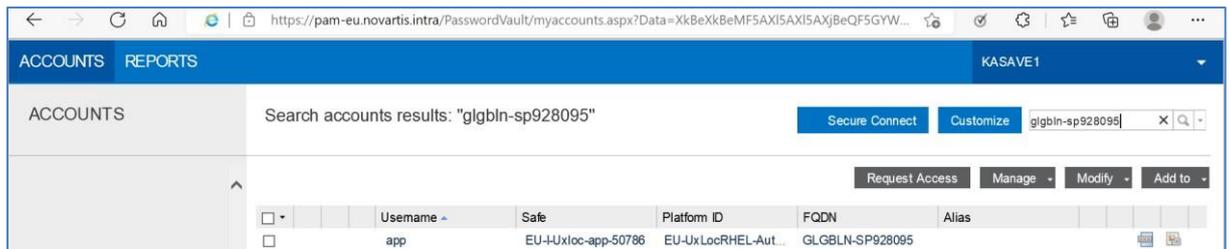


Figure 3

3.1.3 How to create Tunnel

- a. Login to PAM account with your 521 ID
- b. Use the below dedicated servers
 - glgbln-sp928095.eu.novartis.net
 - glgbln-sp928479.eu.novartis.net
- c. In the search list, select the server-name with username as "app".
- d. It will navigate to server details page.
- e. In server details page, click on "connect" button. It will ask to provide a reason for accessing the server.
- f. Provide the reason to access the server and click ok. And select ok on further pop ups to logging into server.
- g. Once login to server, change the directory to Saucelabs bin directory (cmd: `cd /SauceLABS/sc-4.8.1-linux/bin`)
- h. Now open the SauceLabs application in another window and login

[SSO login: <https://myapps.microsoft.com/signin/7c74289d-a7c6-4116-bb46e131cb534913?tenantId=f35a6974-607f-47d4-82d7-ff31d7dc53a5>]
- i. Select the Tunnel Proxies section in the left menu.

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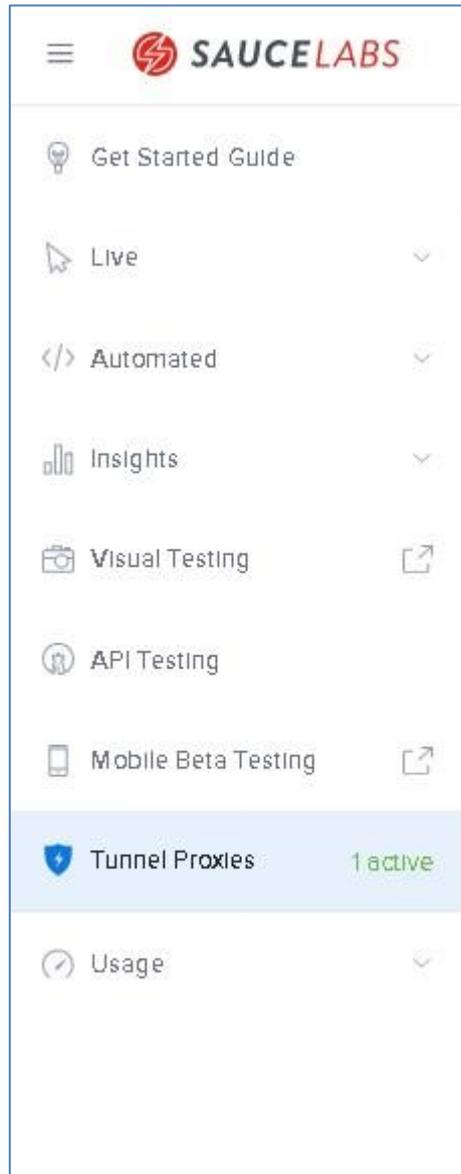


Figure 4

- j. Copy the code snippet from the Tunnel Proxies page and update the code snippet with "-T" parameter as shown below to test intranet application

```
./sc -u YOUR521ID -k ***** --region eu-central -B all -T --tunnel-name your-tunnel-name &
```

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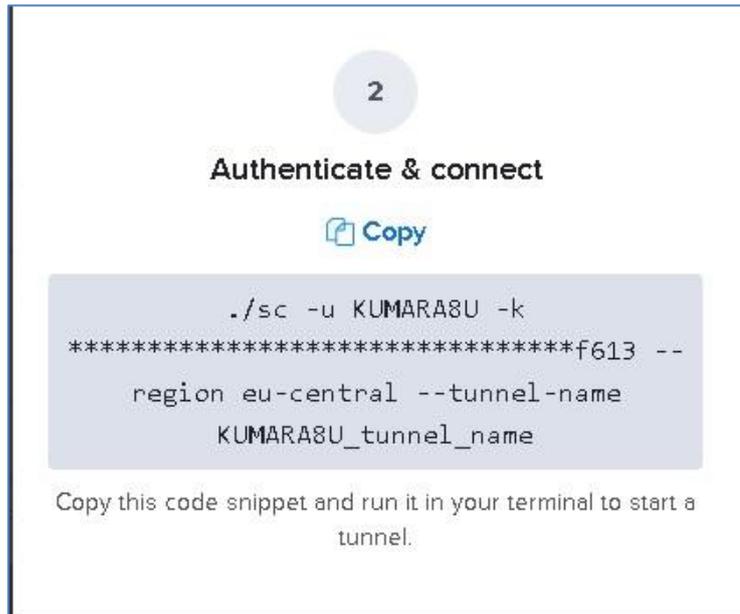


Figure 5

- k. Execute the updated code/command in bin directory of saucelab server. If everything goes well, the tunnel is provisioned with a message " Sauce Connect is up and press enter. You may start your tests".

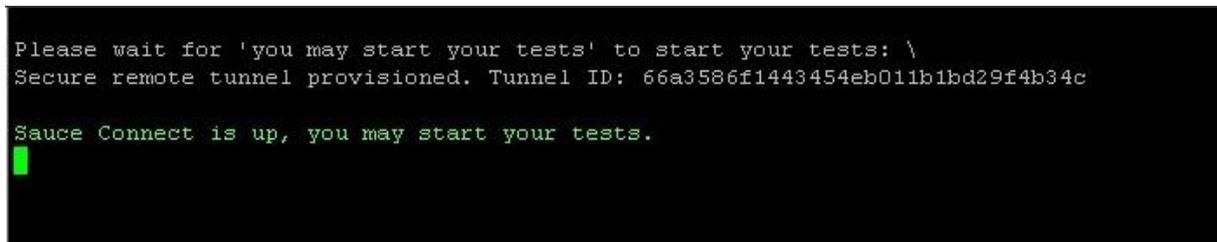


Figure 6

- l. To verify the Tunnel is up, move to saucelabs application window. And in Tunnel Proxies page the active tunnels should be displayed with 521ID as owner of the tunnel.

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Tunnel Proxies

1 Active Tunnel Stop all tunnels

RUN COMMAND ⓘ

```
/sc -u KUMARABU -k *****f613 --region eu-centr
```

Type	State	Tunnel ID	Tunnel Name	Tunnel VM Hostname	Client Hostname	Owner	Sharing	Duration
🛡️	✔️	[REDACTED]	KASAVE1_tunnel_name	maki124.eu-central-1.miso.saucelabs.com	GLGBLN-SD-[REDACTED]@novartis.net	KASAVE1	No	about 11 hours

Figure 7

3.1.4 How to perform a sample Test from Saucelabs

Step 1: Login to SauceLabs application

[SSO login: <https://myapps.microsoft.com/signin/7c74289d-a7c6-4116-bb46e131cb534913?tenantId=f35a6974-607f-47d4-82d7-ff31d7dc53a5>]

Step 2:

In the left menu, click on "Live" dropdown and select "Cross Browser".

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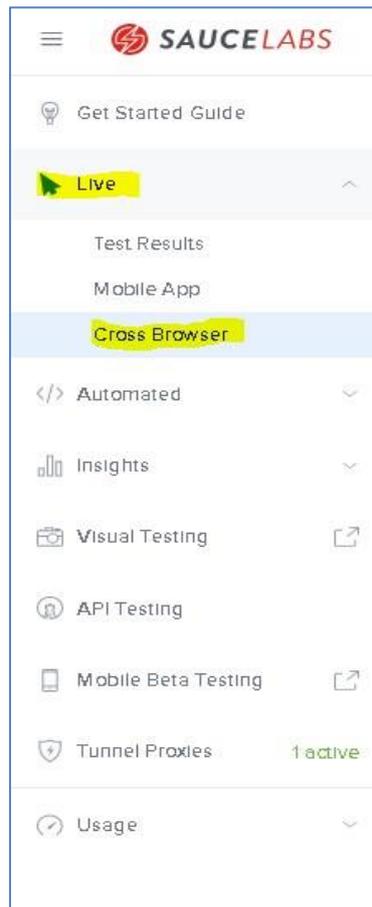


Figure 8

Step 3: In the Cross Browser page, (This is Example only & not restricted to SauceLABS functionalities)

- Provide the URL of the webpage which needs to be tested in "URL" field. [Ex: <https://deploy.dra.f1.aws.novartis.net:32202/>]
- Select the tunnel which you have created from the "TUNNEL PROXIES" dropdown
- In "BROWSER SELECTION" section, select the version of the browser from the browser column in which you would like to run you test and select the browser resolution.
- Select the OS Version from the dropdown and click on "Start Test".

[Refer to the image below- *Figure 9* for the steps from a to d]

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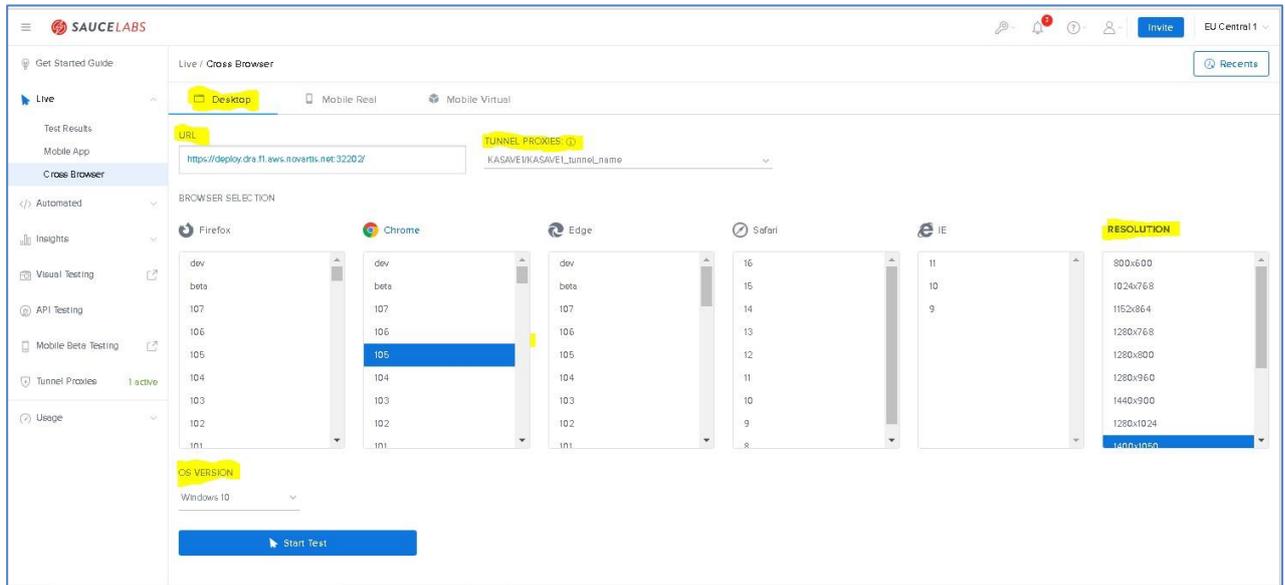


Figure 9

- e. A new window with test browser will be launched.

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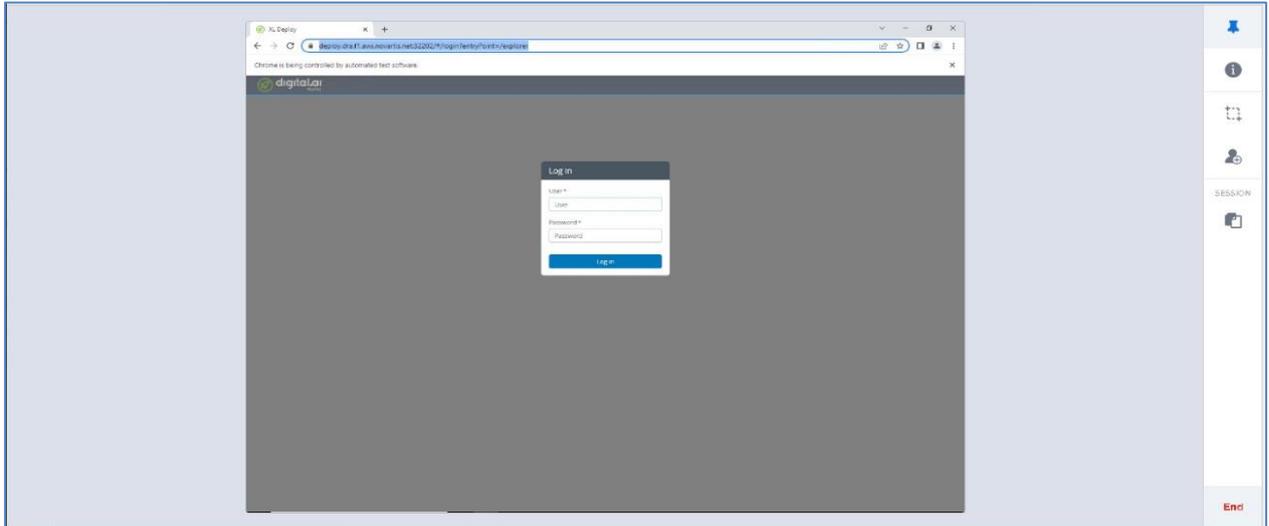


Figure 10

Please click on end to complete the test.

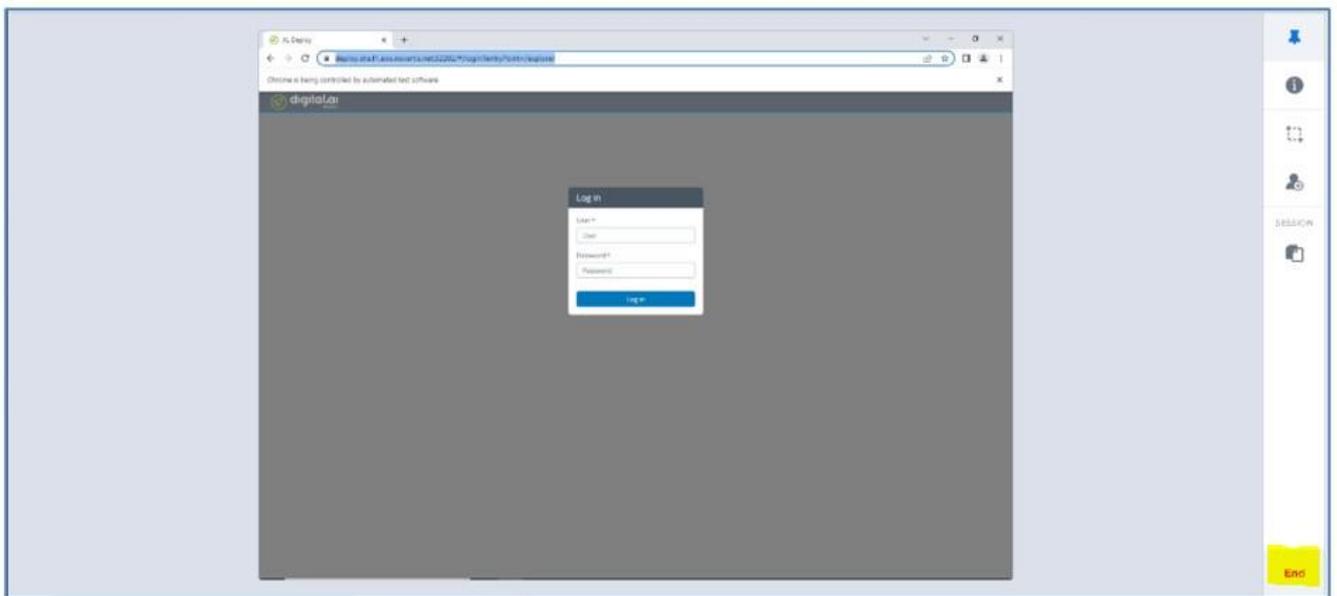


Figure 11

3.1.4.1 Sauce Labs Insights

Insights is the reporting and analytics hub of your Sauce test suite. In it, you will find an interactive data center that can help you interpret your test results over time, identify failure patterns across different platforms, understand how parallel tests can improve your build efficiency, and home in on areas of your app that might benefit from deeper testing.

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Access the Insights menu from the left-side navigation menu of our web app. The test overview Shows a variety of views of the data related to all the tests executed

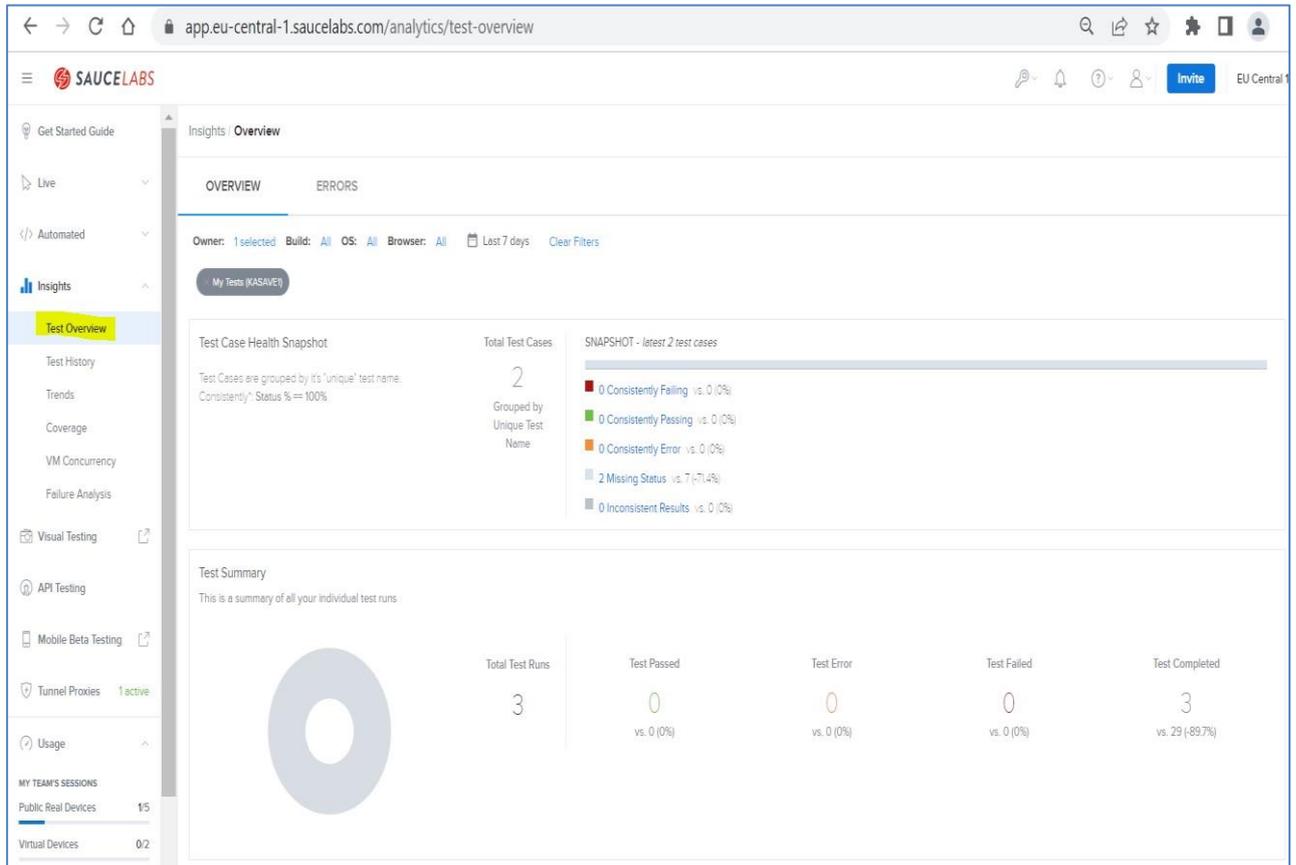


Figure 12

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3.1.5 Available Private Devices for Testing

Device Brand	Model	Device Type	OS	Viewport (px)
Apple	iPhone 14 Pro Max	Smartphone	iOS 16	430x932
Apple	iPhone 13 (or equivalent)	Smartphone	iOS 15 (n-1)	390x844
Apple	iPhone 14	Smartphone	iOS 16	390x844
Apple	iPhone 12 mini (or equivalent)	Smartphone	iOS 15 (n-1)	375x812
Apple	iPad Air 2022	Tablet	iPadOS 16	768x1024
Apple	iPad Pro 2021 (or equivalent)	Tablet	iPadOS 15 (n-1)	834x1194
Android	Samsung S22	Smartphone	Android 13	360x780
Android	Samsung Galaxy Note 20	Smartphone	Android 12 (n-1)	412x915

* This list is dynamic and might change depending on license procurement & cross charging.

3.1.5.1 Types of Testing that can be performed

1. Cross Browser testing
2. UI or Visual Regression testing
3. Multi OS Testing
4. Multi Device Testing
5. API

4 ADDITIONAL INFORMATION

For more information, please refer to the Official Documentation - [Documentation | Sauce Labs Documentation](#)

5 ABBREVIATIONS AND DEFINITIONS

5.1 Abbreviations

Abbreviation	Definition
N/A	N/A

6 REFERENCES

6.1 Governing Documents

SOP-8027423 IT Waterfall System Development

SOP-8126377 IT System Lifecycle

7 REVISION HISTORY

7.1 Changes made

Changes in the current version and high-level summary of changes for all listed previous versions are maintained below.

Version Effective Date	Reason for Change	Summary of Changes
1.0 Current	Initial Version	Training Material for End-Users of Saucelabs