### **CA RWA2 #3**

## Problem Statement (Internal/technical)

#### **Problem statement:**

- What: Support team reported the EmailLabs UI was not working when opened from LHQ / CAM and even from standalone EmailLabs Login screen
- When:

Outage Started: 25/Jul/20 2:26 PM
 Outage Detected: 25/Jul/20 2:26 PM
 Outage Ended: 25/Jul/20 4:33 PM

#### **ITop 3 Symptoms:**

List the top symptoms that uniquely identify this outage (minimum one symptom)

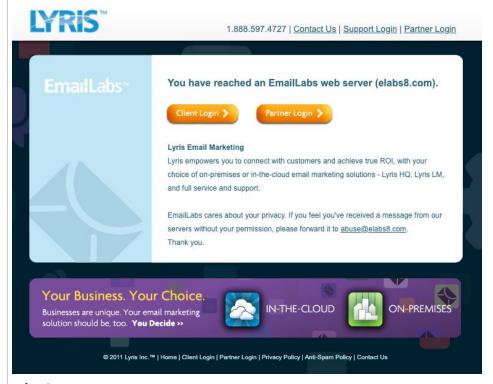
- symptom1: users cannot login to Emaillabs using HQ link "Launch EmailLabs"
- symptom2: users cannot login to Emaillabs using CAMlink "Launch EmailLabs"
- symptom3: Support cannot login to Emaillabs using the Elabs ADMIN Portal

# Root cause analysis (internal)

Apply the why-why methodology. Start with the topmost visible failure and keep going deeper. A minimum of 3 why-why levels must be done.

#### Why 1:

- Question: Why did the Support team report the EmailLabs UI was not working when opened from LHQ / CAM?
- **Reason:** because when the user clicks on the "Launch Emaillabs" the system was redirecting the user to Emaillabs standalone login page.
- Evidence:



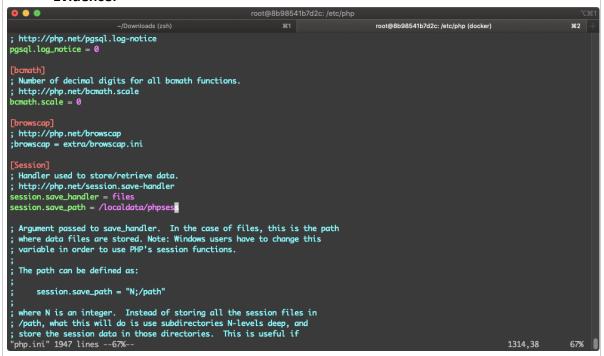
#### Why 2:

• **Question:** Why did the user click on the "Launch Emaillabs" and is getting redirected to Emaillabs standalone login page?

- **Reason:** because the login controller was unable to write the authentication details into \$\_SESSION object. It was getting an unhandled error and was being redirected to the login page.
- Evidence: First request to store data at \$\_SESSION where the unhandled error was being thrown

#### Why 3:

- Question: Why was the login controller getting an unhandled error?
- **Reason:** because the **\$\_SESSION** variable cannot be created at the **session.save\_path**.
- Evidence:



#### Why 4:

- Question: Why did the \$\_SESSION variable cannot be created at the session.save\_path?
- **Reason:** Because the **session.save\_path** directory was not allowed to create files inside it by the Apache user.
- Evidence:

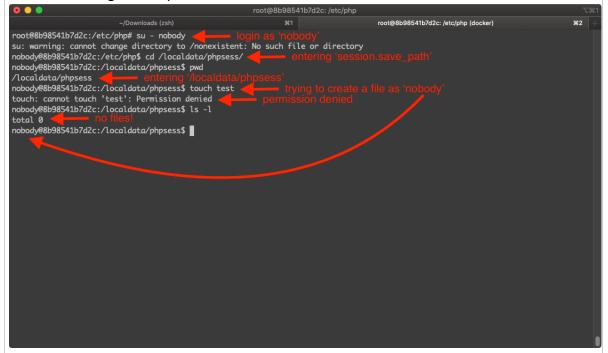
```
root@8b98541b7d2c:/etc/php# 1s -1 /localdata
total 16
dnwr-xr-x 2 root root 4096 Aug 2 12:38 contents
dnwr-xr-x 2 root root 4096 Aug 2 12:38 phpsess
drwr-xr-x 2 root root 4096 Aug 2 12:38 uploads
root@8b98541b7d2c:/etc/php# 1s -1 /localdata

total 16

drwr-xr-x 2 root root 4096 Aug 2 12:38 data
drwr-xr-x 2 root root 4096 Aug 2 12:38 uploads
root@8b98541b/d2c:/etc/
# # Permissions are not allowing
Apache user to write inside /localdata/phpsess
```

#### Why 5:

- **Question:** Why did the session.save\_path directory was not allowed to create files inside it by the Apache user?
- Reason: The DL-3 storage server had a hard failure, and the file system got corrupted. Ever since the file system was recovered, the system has been preventing them from creating files.
- **Evidence:**After the volumes were mounted, the support personnel noticed the following in the system volumes



#### Why 6:

Question: Why has the system been preventing file creation since the recovery?

- Reason / Root-cause: [Insert root cause here]
- **Evidence:** The DL-3 drive was restored by mounting the following volumes using create\_web.yml

Fix plan Fix: [Insert fix here]