

Cross site request forgery - CVE-2018-17792

Definition: Cross site request forgery is an attack where attacker forces valid user to perform malicious activity using valid session. Attacker shares malicious link through social engineering means and victim clicks on the link. Browser with already active world client session will use the same session to open the malicious link and malicious activity will be performed.

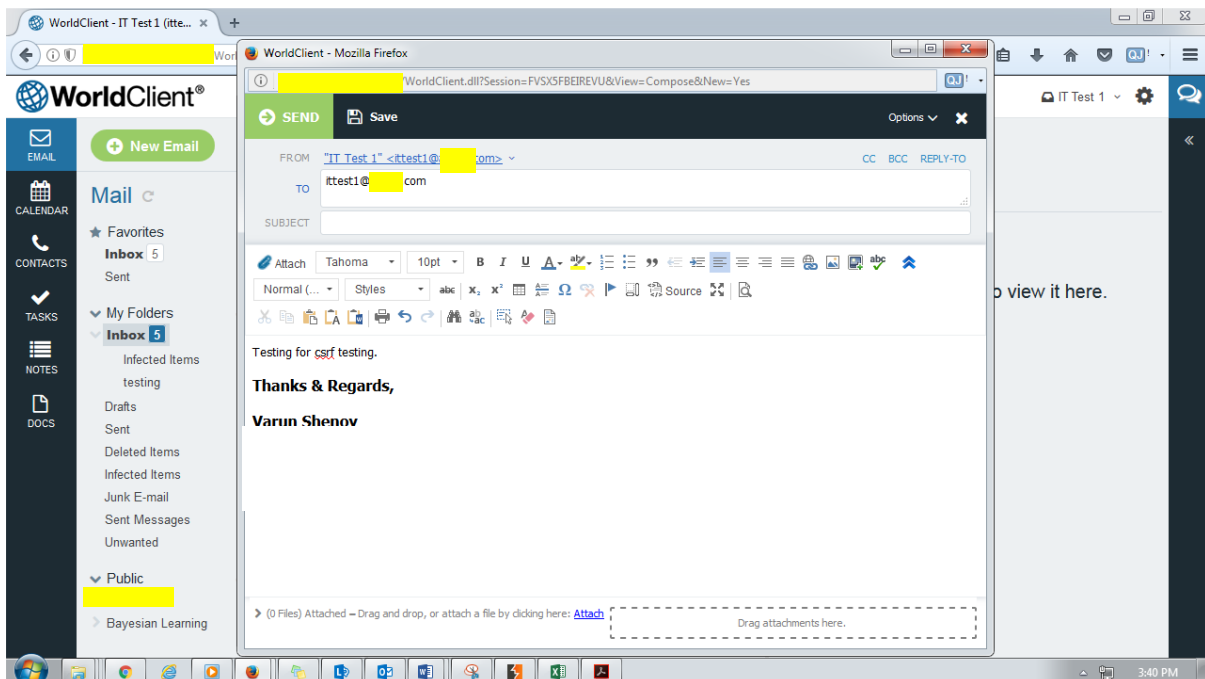
Impact: Attacker may force valid user to send malicious mail to unintended recipient to send mail. This may lead to loss of confidentiality, bypass business rule etc.

Recommendation: It is recommended to implement anti csrf token, confirmation from the user before sending mail, prevent cross tab session sharing, define proper email policy.

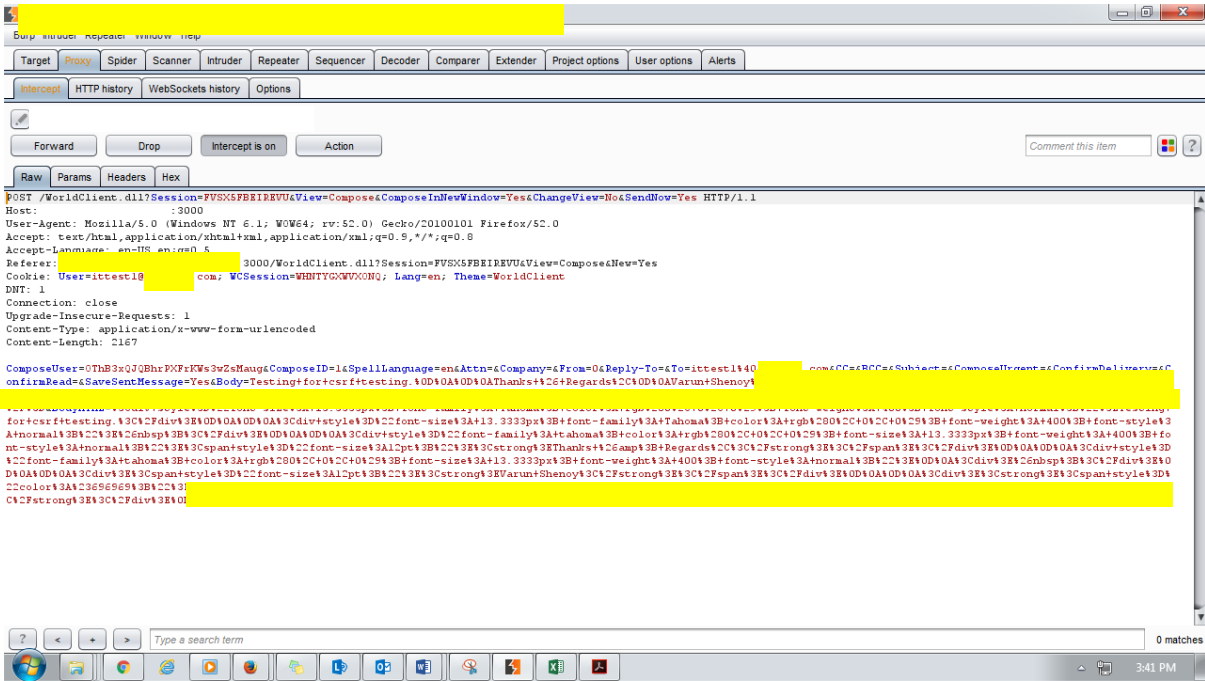
Exploitability: Attacker with the knowledge of world client application can force end user to send mail to other unintended users.

Steps to reproduce:

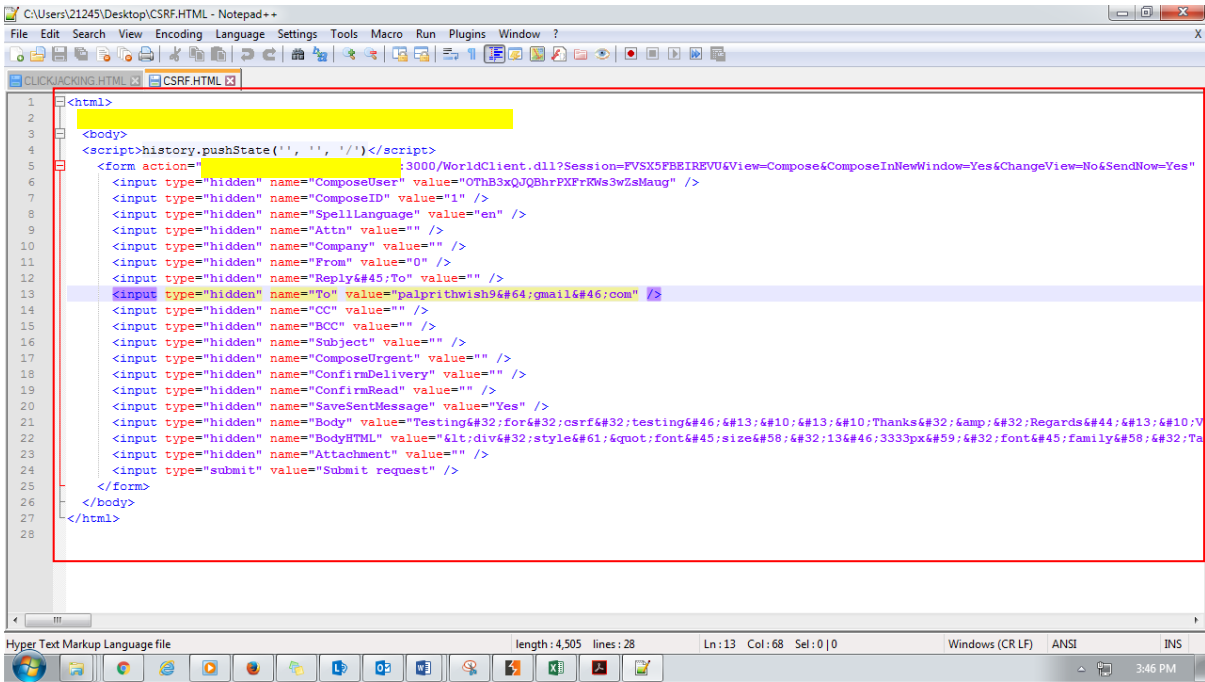
1. Below is new mail composition window. The mail can be sent to organization employees.



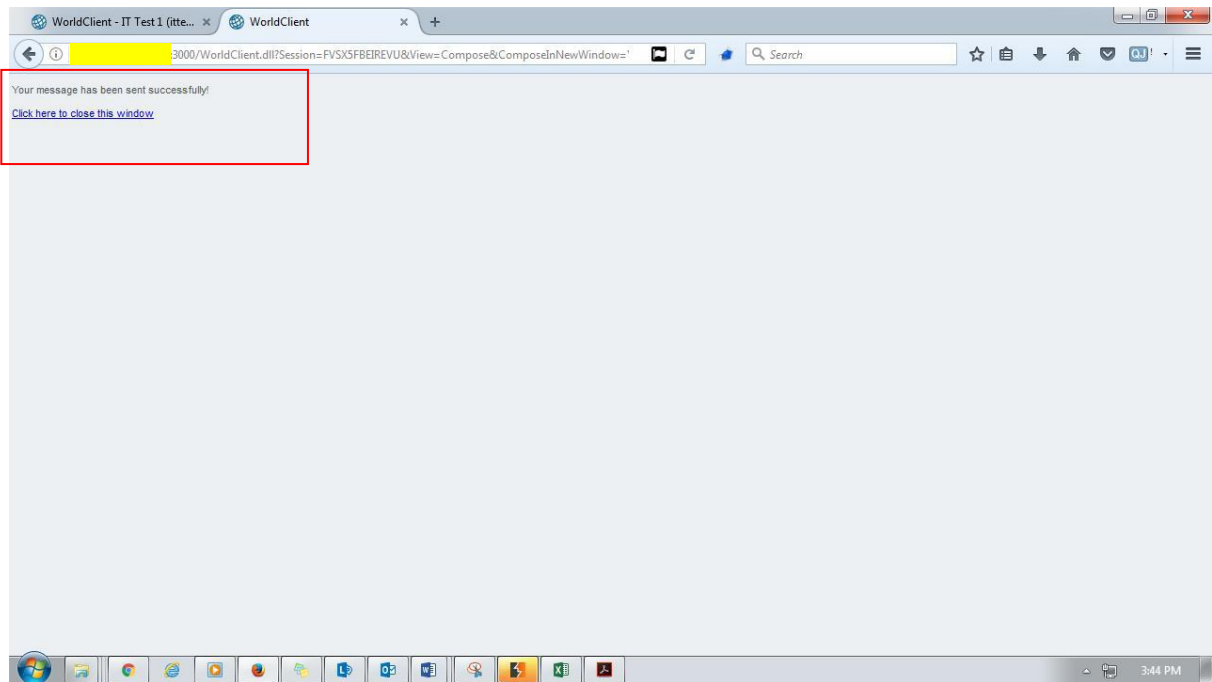
2. It is the request for sending mail that was captured in burp



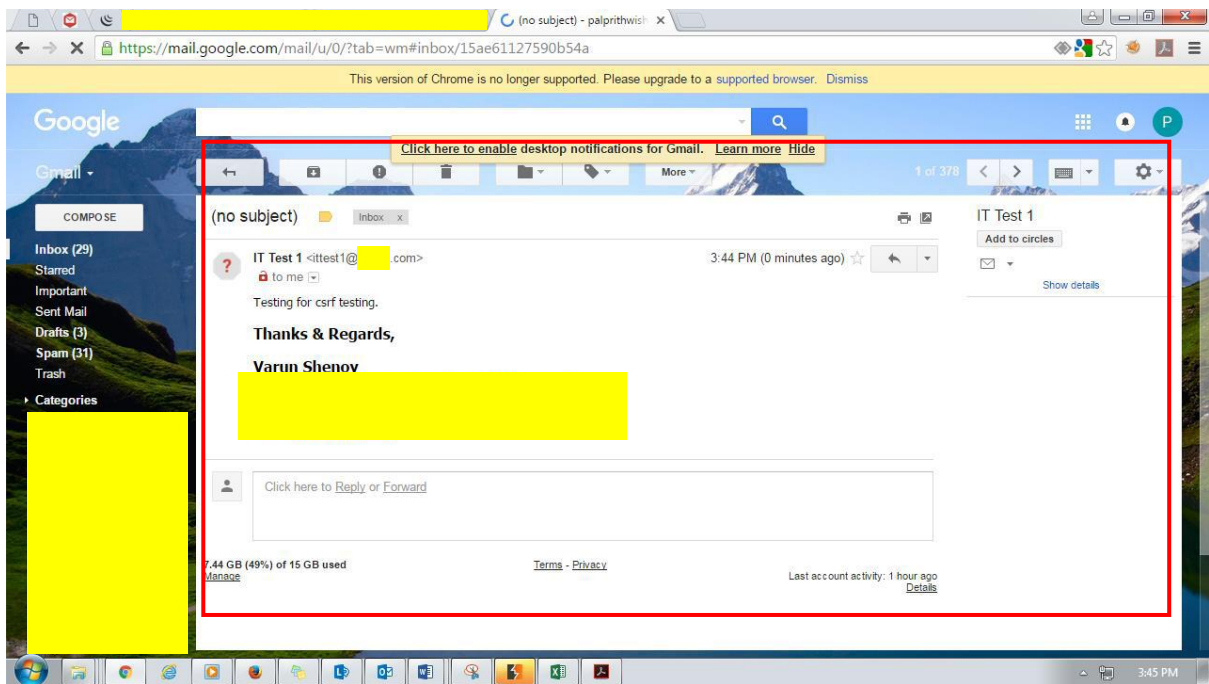
3. This is an external html page containing some parameters that are present in the request to send mail using world client application.



4. On clicking on the external web page it is shown that the mail is sent successfully.



5. It is observed that external user with gmail account email id receives the email from world client which should not be the case as per the business policy.



WorldClient - IT Test 1 (itte... x WorldClient x +

WorldClient.dill?Session=FVSK5FB8E9VU&View=Main&NextView=List&NextFolderID=11&NextFolder=Sent

WorldClient® IT Test 1

EMAIL + New Email

CALENDAR

CONTACTS

TASKS

NOTES

DOCS

Mail

★ Favorites

Inbox 1

Sent

My Folders

Inbox 1

Infected Items testing

Drafts

Sent

Deleted Items

Infected Items

Junk E-mail

Sent Messages

Unwanted

Public

Bayesian Learning

search

view all (49)

palprithwish9@gmail.com 2:14 pm

[No Subject] 2 k

[No Subject]

03/19/2017 02:14 PM

from IT Test 1 to <palprithwish9@gmail.com>

Testing for csrf testing.

Thanks & Regards,

Varun Shenoy

Page 1 of 1

4:12 PM