



Week 5 Technical Guide


Task 1 - Weekly Labs

Cross Origin Resource Sharing (CORS)

Important:	<p>Make sure to take Notes as you proceed with your labs. It can include</p> <ul style="list-style-type: none">• The steps you have taken• Tools you have used• The payloads you have used, and so on <p>And also do your research on that specific vulnerability as all of this will help you in the Weekly Assessment Test which will be provided to you.</p>	
Step 1	<p>Hope you all have gone through the study material on Cross Origin Resource Sharing (CORS) for this week.</p>	Cross Origin Resource Sharing (CORS)





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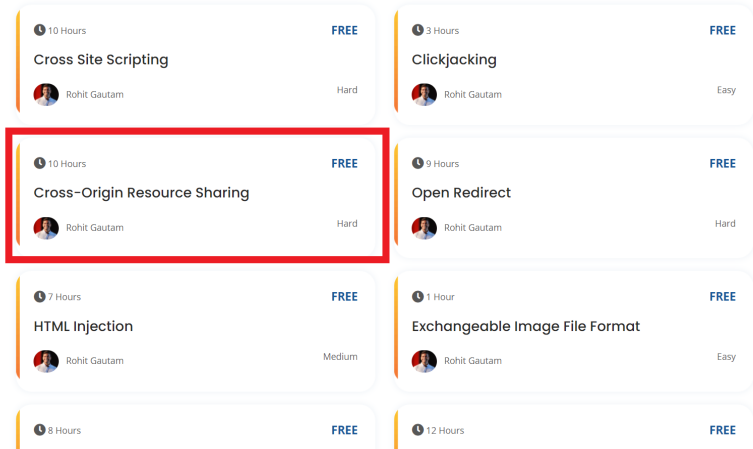
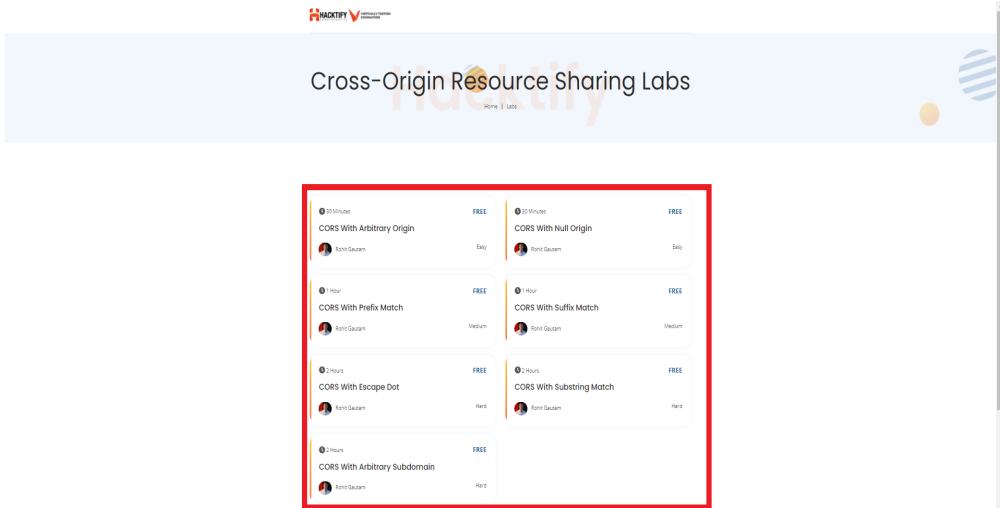
Step 2	Also make sure to check out the references mentioned at the end of the guide. They are very helpful.	References <ul style="list-style-type: none">• CORS by PortSwigger : https://portswigger.net/web-security/cors• OWASP CORS : https://owasp.org/www-community/attacks/CORS_OriginHeaderScrutiny• CORS by Mozilla : https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS
Step 3	Open your registered email containing the Hacktify portal credentials .	
Step 4	Follow the link in the mail to open the Hacktify portal.	Hacktify Labs
Step 5	The portal will look like this. Once you successfully open the portal link. Click on Login .	



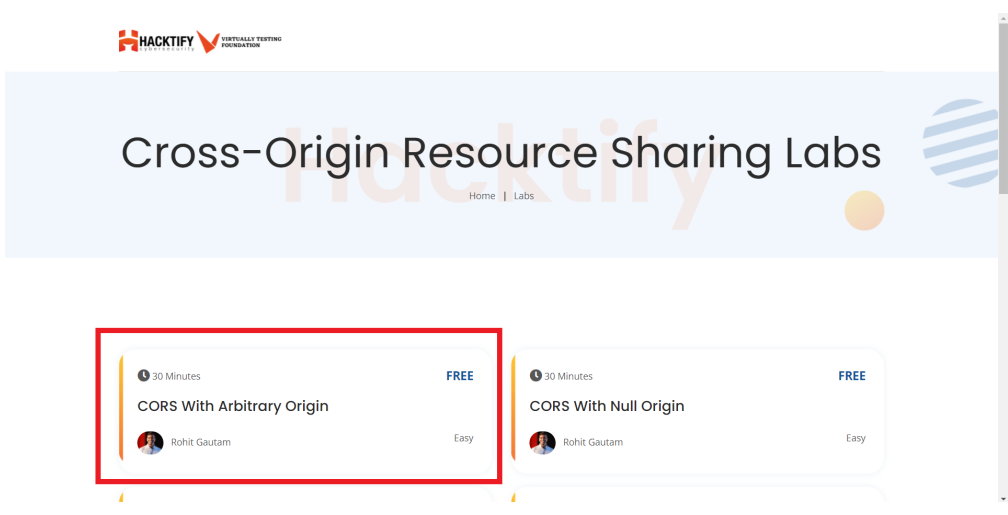
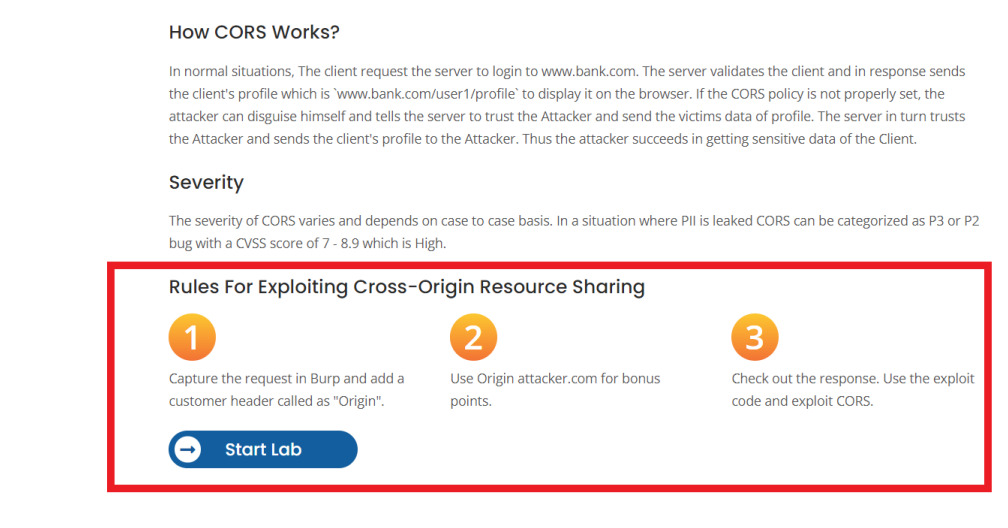
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Step 6	<p>Enter the Email ID you used to register for the internship.</p> <p>And enter the password: inter@oct#123</p> <p>And you should be logged in.</p>	
Step 7	<p>The following home page of your portal will open up.</p>	
Step 8	<p>Open your Weekly assigned course and start accessing your labs.</p>	




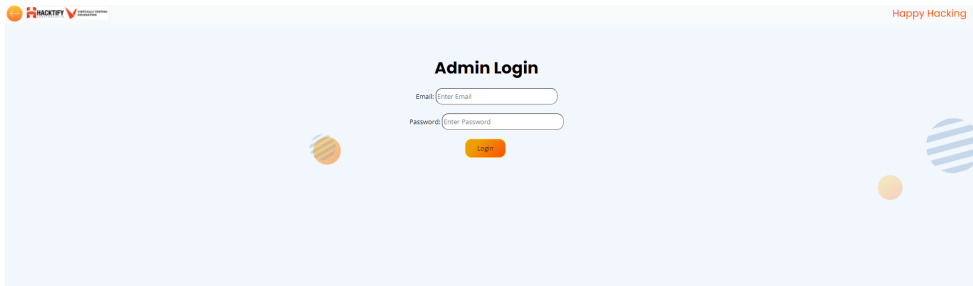
Step 9	Open the Cross Origin Resource Sharing (CORS) Lab .	 <p>The screenshot shows a grid of lab cards. The 'Cross-Origin Resource Sharing' card is highlighted with a red border. It indicates a 10-hour duration, 'FREE' status, and 'Hard' difficulty. Other visible labs include 'Cross Site Scripting', 'Clickjacking', 'Open Redirect', 'HTML Injection', 'Exchangeable Image File Format', and '8 Hours'.</p>
Step 10	<p>Once you open that, the Cross Origin Resource Sharing (CORS) Labs Page will open up as shown.</p> <p>NOTE: Here there are 7 sub-labs assigned to you. There might be multiple sub-labs in each of the main labs.</p>	 <p>The screenshot shows the 'Cross-Origin Resource Sharing Labs' page. It features a header with the Hacktify logo and navigation links. Below, a grid of 7 sub-lab cards is highlighted with a red border. Each card shows a duration (e.g., 10 Minutes, 1 Hour, 2 Hours), 'FREE' status, and difficulty (Easy, Medium, Hard). The sub-labs are: 'CORS With Arbitrary Origin', 'CORS With Null Origin', 'CORS With Prefix Match', 'CORS With Suffix Match', 'CORS With Escape Dot', 'CORS With Substring Match', and 'CORS With Arbitrary Subdomain'.</p>



Step 11	Now, open CORS With Arbitrary Origin! , Cross Origin Resource Sharing (CORS) sub-lab 1 will open up.	
Step 12	Go through the details given in the lab. The highlighted portion are the goals you have to reach for this lab.	



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Step 13	Then click on Start Lab at the bottom of the page for successfully starting your lab.	<p>Rules For Exploiting Cross-Origin Resource Sharing</p> <div><div><p>1</p><p>Capture the request in Burp and add a customer header called as "Origin".</p></div><div><p>2</p><p>Use Origin attacker.com for bonus points.</p></div><div><p>3</p><p>Check out the response. Use the exploit code and exploit CORS.</p></div></div> <div></div>
Step 14	The lab will be started and you can continue doing the tasks assigned to you. NOTE: Make sure to take Notes as you proceed with your labs.	



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Step 15

After completion of Sub-Lab 1 **CORS With Arbitrary Origin!**, move on to do the second sub-lab **CORS With Null Origin!**.

NOTE: You have to follow the same procedure for every sub-lab available in the list.

The screenshot displays a grid of sub-lab cards. A red rectangular border highlights a specific group of cards. The cards are as follows:

Duration	Lab Title	Difficulty	Cost
30 Minutes	CORS With Arbitrary Origin	Easy	FREE
30 Minutes	CORS With Null Origin	Easy	FREE
1 Hour	CORS With Prefix Match	Medium	FREE
1 Hour	CORS With Suffix Match	Medium	FREE
2 Hours	CORS With Escape Dot	Hard	FREE
2 Hours	CORS With Substring Match	Hard	FREE
2 Hours	CORS With Arbitrary Subdomain	Hard	FREE



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NOTE:

Make sure to take **Notes** as you proceed with your labs.
It can include

- The steps you have taken
- Tools you have used
- The payloads you have used, and so on.

And also do your research on that specific vulnerability as all of this will help you in the **Weekly Assessment Test** which will be provided to you.




Week # Assessment

VTF Hacktify Pentesting Internship

This Form will be accepting response **till**

sshukla@virtuallytesting.com [Switch account](#)

 Saving disabled

* Required

Email *

Your email

Name *

Your answer

[Next](#)

[Clear form](#)



Task 2 - Penetration Testing Report

Important	<p>1. Go through the steps more than once because you are requested to submit a Penetration Testing Report every week.</p> <p>2. Make sure to take notes as you proceed with your labs. It can include</p> <ul style="list-style-type: none">• The steps you have taken• Tools you have used• The payloads you have used, and so on <p>And also do your research on that specific vulnerability as all of this will help you in the Weekly Assessment Test which will be provided to you.</p>	
Step 1	<p>If you have not copied the provided template in week 1 copy the model template provided for Penetration Testing Report in your Google Drive.</p>	Penetration Testing Report Template



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Step 3

Rename the copy to **Week_#_Penetration_Testing_Report** where # is the week number.

Copy document ×

Name

Copy of Penetration Testing Report Template

Folder

Weekly Guides

- ☐ Share it with the same people
- ☐ Copy comments and suggestions
- ☐ Include resolved comments and suggestions

Cancel

OK



Step 4	<p>Open the renamed copy of the template and start editing. Firstly edit the Week {#} of the template with the week number.</p> <p>e.g) From Week {#} to Week 5</p> <p>Note: Everything mentioned inside the {} has to be changed.</p>	<div><div><div>Week {#}</div><div>Penetration Testing Report</div></div><div><div>Introduction</div><p>This report document hereby describes the proceedings and results of a Black Box security assessment conducted against the Week {#} Labs. The report hereby lists the findings and corresponding best practice mitigation actions and recommendations.</p></div></div>		
Step 5	<p>In section 2, edit the Application Name with the lab names.</p> <p>Note: Some weeks have 2 labs so you are required to provide both names in such cases, if not 1 is enough.</p>	<div><div><div>2. Scope</div><p>This section defines the scope and boundaries of the project.</p><table><tr><td>Application Name</td><td>{Lab 1 Name}, {Lab 2 Name (if the week has 2 labs)}</td></tr></table></div></div>	Application Name	{Lab 1 Name}, {Lab 2 Name (if the week has 2 labs)}
Application Name	{Lab 1 Name}, {Lab 2 Name (if the week has 2 labs)}			



Step 6

In section 3, change **week {#}** and **{count}** with the number of the sub-labs present.
Change the **{count}** inside the table with the number of easy sub-labs for low, medium sub-labs for medium and hard sub-labs for hard.

Note:

{count} is the sum of both labs if 2 labs are present.

3. Summary

Outlined is a Black Box Application Security assessment for the **Week {#} Labs**.

Total number of Sub-labs: {count} Sub-labs

High	Medium	Low
{count}	{count}	{count}

- High** - Number of Sub-labs with hard difficulty level
- Medium** - Number of Sub-labs with Medium difficulty level
- Low** - Number of Sub-labs with Easy difficulty level



Step 7	<p>Now it's time to update the vulnerability for lab 1. Change {Lab 1 Name} to the lab assigned for the week and Change {Sub-lab-1 Name} to the name of the first sub-lab you worked. Update the table given with the information on the vulnerability.</p> <p>Note: Do the same for all the sub-labs. The template provides a table for 2 sub-labs, if more is needed copy-paste the same.</p>	<div>1. {Lab 1 Name}</div> <div>1.1. {Sub-lab-1 Name}</div> <table><tr><th>Reference</th><th>Risk Rating</th></tr><tr><td>{Sub-lab-1 Name}</td><td>Low / Medium / High</td></tr><tr><th colspan="2">Tools Used</th></tr><tr><td colspan="2">Tools that you have used to find the vulnerability.</td></tr><tr><th colspan="2">Vulnerability Description</th></tr><tr><td colspan="2">About the vulnerability and its working</td></tr><tr><th colspan="2">How It Was Discovered</th></tr><tr><td colspan="2">Automated Tools / Manual Analysis</td></tr><tr><th colspan="2">Vulnerable URLs</th></tr><tr><td colspan="2">URLs of the vulnerable pages in the lab</td></tr><tr><th colspan="2">Consequences of not Fixing the Issue</th></tr><tr><td colspan="2">What will be the consequences if the vulnerability is not patched?</td></tr><tr><th colspan="2">Suggested Countermeasures</th></tr><tr><td colspan="2">Give some Suggestions to stand against this vulnerability</td></tr><tr><th colspan="2">References</th></tr><tr><td colspan="2">URLs to the sources used to know more about this vulnerability</td></tr></table>	Reference	Risk Rating	{Sub-lab-1 Name}	Low / Medium / High	Tools Used		Tools that you have used to find the vulnerability.		Vulnerability Description		About the vulnerability and its working		How It Was Discovered		Automated Tools / Manual Analysis		Vulnerable URLs		URLs of the vulnerable pages in the lab		Consequences of not Fixing the Issue		What will be the consequences if the vulnerability is not patched?		Suggested Countermeasures		Give some Suggestions to stand against this vulnerability		References		URLs to the sources used to know more about this vulnerability	
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Step 8	<p>For the Proof of Concept you are required to attach the screenshot of the vulnerability you found in the sub-labs.</p> <p>Note: 1 Screenshot is needed for each sub-labs and not more than that.</p>	<div>Proof of Concept</div> <p>This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab</p>																																



Step 9

If you have worked on 2 labs, do the same step 8 and step 9 for the second lab, if not remove those things that are related to the 2nd lab.

2. {Lab 2 Name (if the week has 2 labs)}

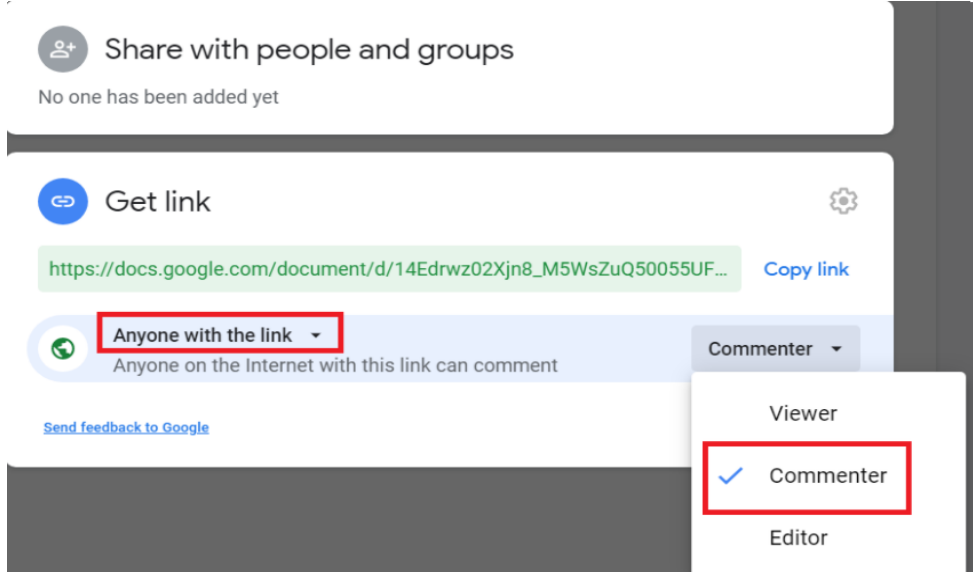
2.1. {Sub-lab-1 Name}

Reference	Risk Rating
{Sub-lab-1 Name}	Low / Medium / High
Tools Used	
Tools that you have used to find the vulnerability.	
Vulnerability Description	
About the vulnerability and its working	
How It Was Discovered	
Automated Tools / Manual Analysis	
Vulnerable URLs	
URLs of the vulnerable pages in the lab	
Consequences of not Fixing the Issue	
What will be the consequences if the vulnerability is not patched?	
Suggested Countermeasures	
Give some Suggestions to stand against this vulnerability	
References	
URLs to the sources used to know more about this vulnerability	

Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab



Step 10	Don't forget to remove the NOTES given in the template. It is just for your reference.	<p>NOTES:</p> <ul style="list-style-type: none">• Everything mentioned inside () has to be changed based on your lab and sub-labs.• Here it is given with 2 Sub-labs vulnerability, you need to add all the sub-labs based on your lab.• Don't forget to take the screenshot of the vulnerability in the sub-labs• Add the screenshots to google drive and share the link of the folder containing those screenshots in the Proof of Concept session.• This NOTE session is only for your reference, don't forget to delete this in the report you submit.
Step 11	After completing the work, now click on the share button and create a share link with the Commenter permission.	
Important	You are required to submit the link to your Report in the weekly assessment form .	



Task 3 - Assessment Test

Important	<p>There will be an assessment test at the end of each week in the weekly submission form in which you will have to answer a certain amount of questions related to this week's topic.</p>	<div><div>Section 4 of 4</div><div><h3>Technical Assessment</h3><p>KYC - Know Your Content for the week. This week's topic -</p><p>All the Best !</p></div></div>
Note:	<ul style="list-style-type: none">• Number of questions could vary from 30 to 50 per week.• Make sure to take Notes on what you do. It is recommended to do research as all of this will help you in the Weekly Assessment Test which will be provided to you in the submission form.	



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Reminder

All Interns are required to participate in our Technical Skills Assignment. We will be using <https://www.bugbountyhunter.org>. If you do not participate you will be removed from the internship and your access to our content will be revoked.

When on [Hacktify Labs](#) you may notice that it takes a while for the labs to load in. If this is the case try reloading the page or closing your tab, and going back to the page. Once you have it open we suggest not closing this page as you can just go back to this tab to access other labs after you complete the currently deployed one.

You must take Mandatory Weekly Assessment which is available on #weekly-submissions-📋 in discord:

Make sure to take Notes as you proceed with your labs