

CHEERSECURITH BOOTCAMP







Who Am I

The Server Side

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- How It Works?

Server Side Vulnerabilities

- Server-side request forgery SSRF
- SQL Injection SQLi
- Server-Side Template Injection SSTI
- Directory Traversal
- OS Command Injection

Demo

Conclusion



Who Am I





Madani Yousfi Abdelwahed



The Server Side



Introduction

Introduction



"In the client-server model, server-side refers to programs and operations that run on the server. This is in contrast to client-side programs and operations which run on the client side (browser ...)"

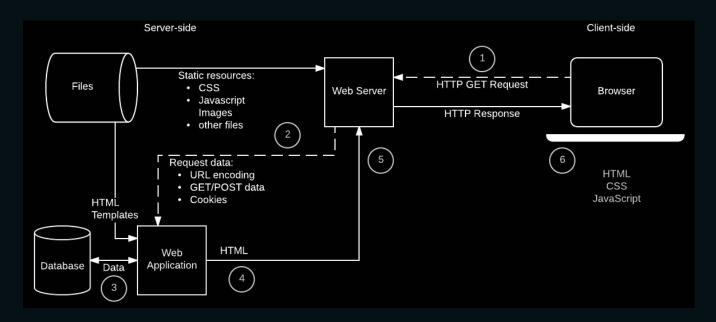
Wikipedia



How it works?

How it works?

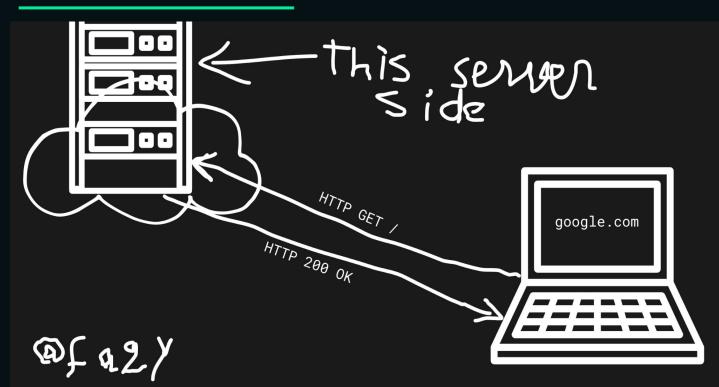




MDN

How it works?







Server Side Vulnerabilities



Server-side request forgery SSRF

Server-side request forgery - SSRF



Description:

"Server-side request forgery (also known as SSRF) is a web security vulnerability that allows an attacker to induce the server-side application to make requests to an unintended location."

PortSwigger - SSRF

Impact of SSRF:

- Unauthorized actions or access to data within the organization.
- Attack other back-end systems that the application can communicate with.
- Might allow an attacker to perform arbitrary command execution.
- Connections to external third-party systems.



SQL Injection SQLi

SQL Injection - SQLi



Description:

"SQL injection attacks are a type of injection attack, in which SQL commands are injected into data-plane input in order to affect the execution of predefined SQL commands."

OWASP - SQL Injection

Impact of SQLi:

- Read sensitive data from the database.
- Modify database data (Insert/Update/Delete).
- Execute administration operations on the database (such as shutdown the DBMS).
- Recover the content of a given file present on the DBMS file system.
- Some cases issue commands to the operating system..



Server-Side Template Injection SSTI

Server-Side Template Injection - SSTI



Description:

"A server-side template injection occurs when an attacker is able to use native template syntax to inject a malicious payload into a template, which is then executed server-side."

Hacktricks - SSTI

Impact of Server-Side Template Injection - SSTI:

- Expose websites to a variety of attacks depending on the template engine
- Using the attack to perform other attacks on internal infrastructure.
- Use the attack as the basis for numerous other attacks, potentially gaining read access to sensitive data and arbitrary files on the server.



Directory traversal

Directory traversal



Description:

"Directory traversal (also known as File Path Traversal) is a vulnerability that allows an attacker to read arbitrary files on the server that is running an application."

PortSwigger - Directory traversal

Impact of Directory traversal:

- Accessing application code and data
- Credentials for back-end systems, and sensitive operating system files.
- Might allow writing to arbitrary files on the server, allowing them to modify application data or behavior



OS Command Injection

OS Command Injection



Description:

"An OS command injection is a vulnerability that enables the execution of unauthorized operating system commands. An OS command injection vulnerability arises when a web application sends unsanitized, unfiltered system commands to be executed."

White Hat - OS Command Injection

Impact of OS Command Injection:

- Almost full control of the system.
- Compromise other parts of the hosting infrastructure.
- Exploiting trust relationships to pivot the attack to other systems within the organization.



Demo



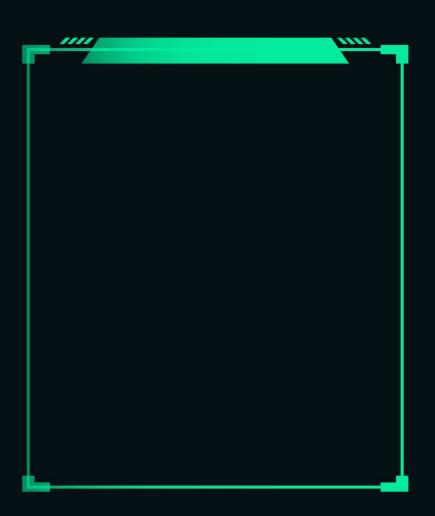
Conclusion

Conclusion

TODO



Thank you for your attention

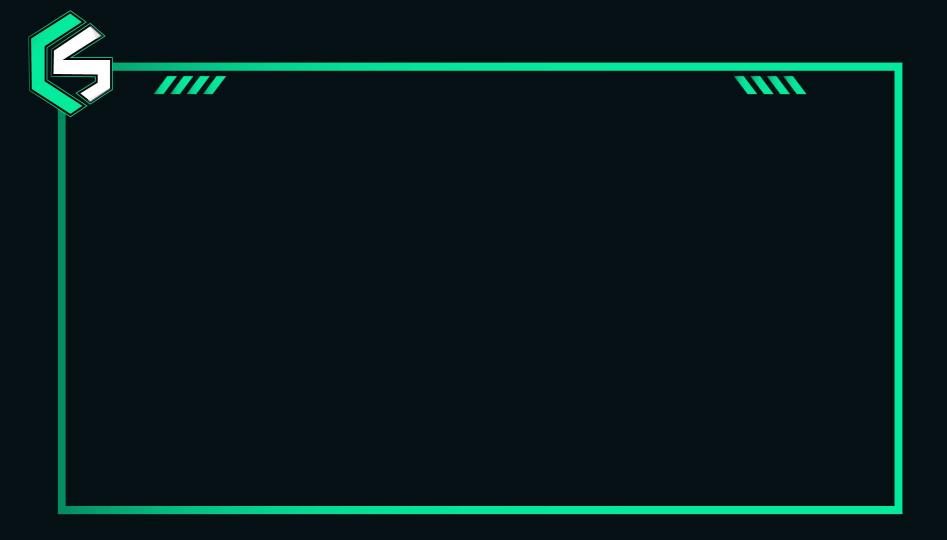


Introduction:

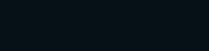




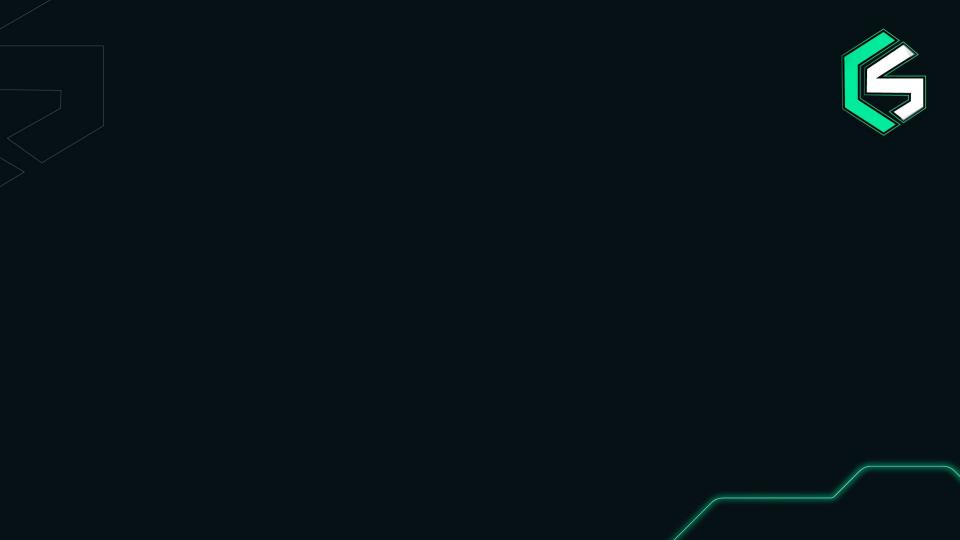
The Server Side:



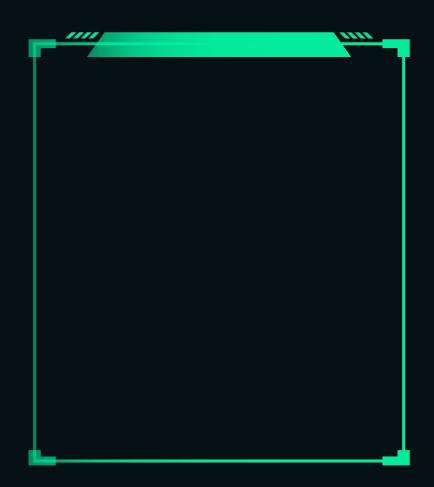












Color & Typography



Titles color #03EB9D



Text scondary color #afb8c1



Text secondary color for white background #061115



Text main color #ffffff

Google Sans

Regular **Bold**

All icons are vector objects and can be recolored using the fill menu.





























































































All icons are vector objects and can be recolored using the fill menu.































































Attachment



Video













Pie Chart

















Bus

All icons are vector objects and can be recolored using the fill menu.























































































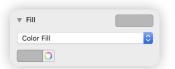






Hotel

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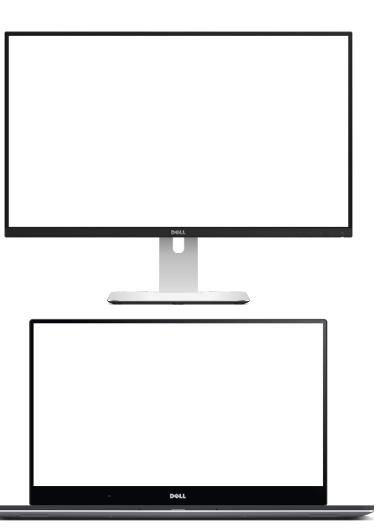






Device Library



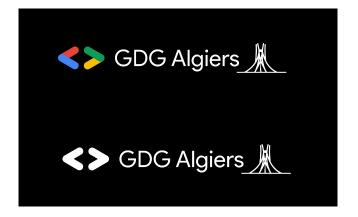


Logo Library

Logos can be scaled to any size











Women Techmakers Algiers



Women Techmakers Algiers



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