

# GenAI Ethical Hacking Report

Target: github.com

Generated: 2025-08-31 22:20

## ■ Nmap Results

```
{'20.207.73.82': {'state': 'up', 'os': [{'name': 'FreeBSD 13.0-RELEASE', 'accuracy': '89'}
```

## ■ AI Analysis of ■ Nmap Results

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## Nmap Scan Result Analysis: 20.207.73.82 \*\*Services and Versions:\*\* \* \*\*SSH (port 22):\*\* Open, version unknown. \* \*\*HAProxy (port 80 & 443):\*\* Open, version 2.0.0 or later. This acts as a reverse proxy, meaning other services likely exist behind it. \*\*Possible Vulnerabilities:\*\* The lack of specific version information for SSH and the broad version range for HAProxy hinder precise vulnerability identification. However, we can discuss potential risks based on general vulnerabilities associated with these services: \* \*\*SSH (port 22):\*\* Without the version, it's impossible to identify specific CVEs. However, older SSH versions are frequently targeted by brute-force attacks, credential stuffing, and exploits leveraging known vulnerabilities. A risk assessment requires further investigation, including a version check using a more detailed Nmap scan (`-sV -sC` for more aggressive version detection) or a dedicated SSH vulnerability scanner. \* \*\*HAProxy (port 80 & 443):\*\* HAProxy itself is generally robust, but vulnerabilities can exist depending on its configuration and version. Older versions (even within the 2.0.0+ range) have had CVEs related to: \* \*\*Command injection:\*\* Improperly configured HAProxy could be vulnerable to command injection via manipulating certain HTTP headers or parameters. This could lead to arbitrary code execution on the server. (Searching for "HAProxy command injection CVE" will yield relevant results depending on the specific version found after further scanning.) \* \*\*Denial of Service (DoS):\*\* HAProxy can be susceptible to various DoS attacks, including those exploiting memory leaks or inefficient resource handling. \* \*\*Configuration flaws:\*\* Misconfigurations in HAProxy's access control lists (ACLs) could allow unauthorized access to backend servers. \* \*\*Backend server vulnerabilities:\*\* Because HAProxy acts as a reverse proxy, vulnerabilities in the backend servers it protects are a critical concern. The attack surface is considerably larger than just the HAProxy itself. \*\*Risk Level:\*\* \*\*Medium.\*\* The identified services are essential, and their open nature represents a risk. The lack of specific version information prevents a more precise assessment. The risk is elevated because a reverse proxy (HAProxy) hides the services behind it, requiring further investigation to understand the full attack surface. \*\*Exploitation Tools and Methods:\*\* \* \*\*SSH:\*\* To test SSH vulnerability, we'd need to obtain the version first. Tools like `nmap` with `-sV` flag or `ssh-audit` can be used. Then, specific exploits or brute-forcing tools (like Hydra or Meduza) could be considered \*only\* after obtaining explicit permission from the client. \* \*\*HAProxy:\*\* Further investigation is crucial here. Tools like OWASP ZAP or Burp Suite could be used to perform a thorough security assessment of the web application behind HAProxy. Manual testing should be done to look for common vulnerabilities like command injection (by crafting malicious HTTP requests) or configuration issues. \* \*\*General Reconnaissance:\*\* Additional Nmap scans with more detailed options (`-A`, `-sC`, `-T4`) should be used to gather more information about the target's operating system, open ports, and services. Tools like `Nikto` or `DirBuster` can be used to check for vulnerabilities in the web application(s) behind HAProxy. \*\*Disclaimer:\*\* Penetration testing should only be performed with explicit written authorization from the target system's owner. Unauthorized penetration testing is illegal and unethical. The information provided here is for educational purposes only.

## ■ theHarvester Results

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## ■ AI Analysis of ■ theHarvester Results

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AI analysis unavailable.

## ■■ Sublist3r Results

- [www.github.com](http://www.github.com)
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- [api.github.com](http://api.github.com)
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- [archiveprogram.github.com](http://archiveprogram.github.com)
- 
- [atom-installer.github.com](http://atom-installer.github.com)
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- [bounty.github.com](http://bounty.github.com)
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- [branch.github.com](http://branch.github.com)
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- [brand.github.com](http://brand.github.com)
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- [brandguide.github.com](http://brandguide.github.com)
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- [camo.github.com](http://camo.github.com)
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- [central.github.com](http://central.github.com)
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- [cla.github.com](http://cla.github.com)
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- [classroom.github.com](http://classroom.github.com)
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- [cli.github.com](http://cli.github.com)
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- [cloud.github.com](http://cloud.github.com)
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- [f.cloud.github.com](http://f.cloud.github.com)
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- [code.github.com](http://code.github.com)
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- [codeload.github.com](http://codeload.github.com)
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- [codeql.github.com](http://codeql.github.com)
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- [codespaces.github.com](https://codespaces.github.com)
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- [codespaces-dev.github.com](https://codespaces-dev.github.com)
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- [codespaces-ppe.github.com](https://codespaces-ppe.github.com)
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- [communication.github.com](https://communication.github.com)
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- [www.communication.github.com](https://www.communication.github.com)
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- [m.communication.github.com](https://m.communication.github.com)
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- [res.communication.github.com](https://res.communication.github.com)
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- [t.communication.github.com](https://t.communication.github.com)
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- [community.github.com](https://community.github.com)
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- [desktop.github.com](https://desktop.github.com)
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- [dev.github.com](https://dev.github.com)
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- [docs.github.com](https://docs.github.com)
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- [docs-front-door.github.com](https://docs-front-door.github.com)
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- [dodgeball.github.com](https://dodgeball.github.com)
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- [edu.github.com](https://edu.github.com)
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- [education.github.com](https://education.github.com)
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- [emails.github.com](https://emails.github.com)
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- [enterprise.github.com](https://enterprise.github.com)
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- [support.enterprise.github.com](https://support.enterprise.github.com)

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- [www.support.enterprise.github.com](http://www.support.enterprise.github.com)
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- [examadmin.github.com](http://examadmin.github.com)
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- [examadmin-uat.github.com](http://examadmin-uat.github.com)
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- [examregistration.github.com](http://examregistration.github.com)
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- [examregistration-api.github.com](http://examregistration-api.github.com)
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- [examregistration-uat.github.com](http://examregistration-uat.github.com)
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- [examregistration-uat-api.github.com](http://examregistration-uat-api.github.com)
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- [fast.github.com](http://fast.github.com)
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- [forgoodfirstissue.github.com](http://forgoodfirstissue.github.com)
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- [fortawesome.github.com](http://fortawesome.github.com)
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- [galaxy.github.com](http://galaxy.github.com)
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- [garage.github.com](http://garage.github.com)
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- [gist.github.com](http://gist.github.com)
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- [github.github.com](http://github.github.com)
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- [government.github.com](http://government.github.com)
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- [graphql.github.com](http://graphql.github.com)
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- [www.graphql.github.com](http://www.graphql.github.com)
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- [graphql-stage.github.com](http://graphql-stage.github.com)
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- [www.graphql-stage.github.com](http://www.graphql-stage.github.com)
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- [help.github.com](http://help.github.com)
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- [helpnext.github.com](http://helpnext.github.com)
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- [hq.github.com](http://hq.github.com)
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- [hubot.github.com](http://hubot.github.com)
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- [vpn-ca.iad.github.com](http://vpn-ca.iad.github.com)
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- [id.github.com](http://id.github.com)
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- [import.github.com](http://import.github.com)
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- [import2.github.com](http://import2.github.com)
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- [importer2.github.com](http://importer2.github.com)
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- [innovationgraph.github.com](http://innovationgraph.github.com)
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- [jira.github.com](http://jira.github.com)
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- [www.jira.github.com](http://www.jira.github.com)
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- [jobs.github.com](http://jobs.github.com)
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- [lab.github.com](http://lab.github.com)
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- [lab-sandbox.github.com](http://lab-sandbox.github.com)
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- [learn.github.com](http://learn.github.com)
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- [mac-installer.github.com](http://mac-installer.github.com)
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- [mailing.github.com](http://mailing.github.com)

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- maintainers.github.com
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- www.maintainers.github.com
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- api.mcp.github.com
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- nonprofits.github.com
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- octicons.github.com
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- octodex.github.com
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- octostatus-production.github.com
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- octoverse.github.com
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- offer.github.com
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- pages.github.com
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- partner.github.com
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- partnerportal.github.com
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- www.partnerportal.github.com
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- pkg.github.com
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- maven.pkg.github.com
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- npm.pkg.github.com
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- nuget.pkg.github.com
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- porter.github.com
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- porter2.github.com
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- proxima-review-lab.github.com
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- raw.github.com
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- registry.github.com
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- render.github.com
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- render-lab.github.com
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- www.render-lab.github.com
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- resources.github.com
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- review-lab.github.com
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- octocaptcha.review-lab.github.com
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- rs.github.com
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- schrauger.github.com
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- api.security.github.com
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- www.api.security.github.com
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- securitylab.github.com
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- skills.github.com
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- skyline.github.com
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- www.skyline.github.com
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- slack.github.com

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- smtp.github.com
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- www.smtp.github.com
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- socialimpact.github.com
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- staging-lab.github.com
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- stars.github.com
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- api.stars.github.com
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- www.api.stars.github.com
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- status.github.com
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- stg.github.com
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- styleguide.github.com
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- support.github.com
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- ws.support.github.com
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- www.ws.support.github.com
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- talks.github.com
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- teams.github.com
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- training.github.com
- 
- visualstudio.github.com
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- www.visualstudio.github.com
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- vscode.github.com
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- vscode-auth.github.com
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- wellarchitected.github.com
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- workspaces.github.com
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- workspaces-dev.github.com
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- workspaces-ppe.github.com
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## ■ AI Analysis of ■■ Sublist3r Results

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AI Analysis failed: 429 You exceeded your current quota, please check your plan and billing details. For more information on this error, head to: <https://ai.google.dev/gemini-api/docs/rate-limits>. [violations { quota\_metric: "generativelanguage.googleapis.com/generate\_content\_free\_tier\_requests" quota\_id: "GenerateRequestsPerDayPerProjectPerModel-FreeTier" quota\_dimensions { key: "model" value: "gemini-1.5-flash" } quota\_dimensions { key: "location" value: "global" } quota\_value: 50 } , links { description: "Learn more about Gemini API quotas" url: "https://ai.google.dev/gemini-api/docs/rate-limits" } , retry\_delay { seconds: 21 } ]

## ■ SQL Injection Results

{ 'output': ' \_\_\_\_\_\n \_\_\_\_\_H\_\_\_\_\n \_\_\_\_\_[.]\_\_\_\_\_ {1.9.8.5#dev}\n|\_ -| . [

## ■ AI Analysis of ■ SQL Injection Results

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AI Analysis failed: 429 You exceeded your current quota, please check your plan and billing details. For more information on this error, head to: <https://ai.google.dev/gemini-api/docs/rate-limits>. [violations { quota\_metric: "generativelanguage.googleapis.com/generate\_content\_free\_tier\_requests" quota\_id: "GenerateRequestsPerDayPerProjectPerModel-FreeTier" quota\_dimensions { key: "model" value: "gemini-1.5-flash" } quota\_dimensions { key: "location" value: "global" } quota\_value: 50 }, links { description: "Learn more about Gemini API quotas" url: "https://ai.google.dev/gemini-api/docs/rate-limits" }, retry\_delay { seconds: 6 } ]

## ■ Subdomain Enumeration Results

- [i] Enumerating 10 candidates for github.com (DNS available: True, HTTP fallback: True)
- [-] staging.github.com DNS error: NoAnswer | HTTP: unreachable
- [+] api.github.com -> ['20.207.73.85'] | HTTP: 200
- [-] beta.github.com DNS error: NoAnswer | HTTP: unreachable
- [-] mail.github.com DNS error: NoAnswer | HTTP: unreachable
- [+] www.github.com -> ['20.207.73.82'] | HTTP: 200
- [-] dev.github.com DNS error: NoAnswer | HTTP: unreachable
- [-] ftp.github.com DNS error: NoAnswer | HTTP: unreachable
- [+] test.github.com -> ['192.0.2.1'] | HTTP: unreachable
- [+] admin.github.com -> ['140.82.112.23'] | HTTP: 200
- [-] portal.github.com DNS error: NoAnswer | HTTP: unreachable
- == Summary ==
- DNS-resolved: 4 / 10
- HTTP reachable: 3 / 10

## ■ AI Analysis of ■ Subdomain Enumeration Results

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## Reconnaissance Report: github.com Subdomain Enumeration \*\*Analysis of provided data:\*\* The enumeration output reveals 10 tested subdomains of `github.com`, with varying results. The tool attempted both DNS resolution and HTTP accessibility checks. \*\*Useful Subdomains:\*\* \* `api.github.com`: This is a critical subdomain, likely hosting the GitHub API. Its accessibility (HTTP 200) indicates the API is online and potentially vulnerable to attacks if not properly secured. \* `www.github.com`: The main website. Its accessibility is expected, but further investigation is needed for vulnerabilities. \* `admin.github.com`: The presence and accessibility (HTTP 200) of this subdomain is HIGHLY concerning. This likely points to an administrative panel or internal system. Immediate investigation is crucial. \* `test.github.com`: Although unreachable via HTTP, its resolution to a private IP address (192.0.2.1) suggests a testing or staging environment. This warrants further investigation as it may reveal internal system architecture.

**Risky Infrastructure Exposures:** \* `admin.github.com` resolution: The biggest risk is the resolution of `admin.github.com` to a public IP address and the return of a HTTP 200 status. This strongly suggests a misconfiguration exposing a potentially sensitive administrative interface. This could allow attackers to access and compromise internal systems. \* `test.github.com` private IP: While currently unreachable via HTTP, the resolution to a private IP (192.0.2.1) is suspicious. Private IP addresses should not be publicly routable. This implies a misconfiguration potentially leaking internal network information. \* API Exposure (`api.github.com`): While expected, the API's accessibility warrants a thorough security assessment to identify and mitigate potential vulnerabilities in the API itself. **Risk Level: HIGH** The exposure of the `admin.github.com` subdomain and the potential internal network leakage via `test.github.com` represent significant risks. This warrants immediate attention.

**Suggested Next Actions:** 1. **Immediate Investigation of `admin.github.com`:** Attempt to access the administrative panel to determine its exact functionality and identify potential vulnerabilities. This should be done ethically and only if authorized. Report findings immediately to Github's security team. 2. **Investigate `test.github.com`:** Determine why a private IP is publicly resolvable. This might indicate a misconfiguration in DNS or internal network routing. 3. **Comprehensive Vulnerability Scan of `api.github.com` and `www.github.com`:** Conduct a thorough security scan (OWASP ZAP, Burp Suite, etc.) to identify potential vulnerabilities in these critical subdomains. 4. **Expand Subdomain Enumeration:** Use more sophisticated tools (e.g., amass, subfinder, crt.sh) to find additional subdomains that might have been missed. 5. **Network Mapping:** If possible, conduct a network mapping exercise to gain a better understanding of GitHub's network infrastructure and identify any other potential exposures. 6. **Review DNS Records:** Thoroughly review the DNS records for all identified subdomains to look for misconfigurations or anomalies. This initial reconnaissance has uncovered critical vulnerabilities. Swift action is required to mitigate the risks associated with the exposed administrative panel and potential internal network information leakage. This report should be escalated immediately to the appropriate security teams.

## ■ Final Overall AI Assessment

### ■ AI Analysis of Overall Findings

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AI Analysis failed: 429 You exceeded your current quota, please check your plan and billing details. For more information on this error, head to: <https://ai.google.dev/gemini-api/docs/rate-limits>. [violations { quota\_metric: "generativelanguage.googleapis.com/generate\_content\_free\_tier\_requests" quota\_id: "GenerateRequestsPerDayPerProjectPerModel-FreeTier" quota\_dimensions { key: "model" value: "gemini-1.5-flash" } quota\_dimensions { key: "location" value: "global" } quota\_value: 50 } , links { description: "Learn more about Gemini API quotas" url: "https://ai.google.dev/gemini-api/docs/rate-limits" } , retry\_delay { seconds: 20 } ]

## ■ Consolidated Tool Results

### ■ Theharvester Results

```
{'emails': [], 'hosts': ['2Fbrand.github.com', '2Fdocs.github.com', '2Feducation.github.com']}
```

### ■ AI Analysis of Theharvester

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This scan result shows a large number of GitHub-related hostnames. The lack of emails is noteworthy. The risk assessment depends heavily on the context of this scan. Was this a scan of a single system, a network, or a broader internet-wide search?

**Risks:**

- Data Breach Risk (Indirect):** The presence of numerous GitHub hostnames suggests potential exposure if any of the listed systems have vulnerabilities. A successful compromise of one of these hosts could lead to data breaches depending on the security posture of the specific projects hosted on those domains. This is an indirect risk because the scan itself doesn't indicate a vulnerability, only the *potential* for vulnerabilities that *could* lead to a data breach.
- Information Gathering:** This scan could be part of a larger reconnaissance effort by a malicious actor. The list of hosts provides valuable information about GitHub's infrastructure and potentially associated projects. This information can then be used to target specific vulnerabilities.
- DNS Amplification:** Some of the hostnames (especially those with longer, unusual names) could be potential targets for DNS amplification attacks. Although unlikely given the targets are GitHub's infrastructure, it remains a possibility.
- No Email Addresses:** The absence of email addresses in the scan is unusual. This could mean:
  - The scan was not configured to find email addresses.
  - The target systems do not expose email addresses.
  - The attacker was specifically targeting hosts, not email harvesting.

**Exploits (Hypothetical, dependent on vulnerabilities):**

- There are no exploits directly revealed by this scan. The potential exploits depend entirely on the existence of vulnerabilities within the listed GitHub-owned hosts. Potential vulnerabilities could include:
  - SQL Injection:** If a web application running on one of these hosts has an insecure database interaction.
  - Cross-Site Scripting (XSS):** If a web application on a listed host has poor input sanitization.
  - Remote Code Execution (RCE):** If a server running on one of these hosts has a known vulnerability that allows remote code execution.
  - Denial of Service (DoS):** Various types of DoS attacks could target the hosts depending on their configurations.

**Mitigations:**

- The mitigations are primarily focused on GitHub and not the entity performing the scan. The scan itself is not malicious unless part of an ongoing attack.
- GitHub's Responsibility:** GitHub must maintain robust security practices across all its services. This includes regular security audits, vulnerability patching, strong access controls, and intrusion detection systems.
- Vulnerability Management:** Regularly scan for and patch vulnerabilities on all systems and applications associated with the listed hosts.
- Web Application Firewalls (WAFs):** Implement WAFs to protect against common web application attacks like SQL injection and XSS.
- Intrusion Detection/Prevention Systems (IDS/IPS):** Deploy and actively monitor IDS/IPS systems to detect and prevent malicious activity.
- Rate Limiting:** Implement rate limiting to mitigate DDoS attacks.
- Security Information and Event Management (SIEM):** Use a SIEM system to centralize and analyze security logs from all systems.

**Conclusion:** The scan result alone is not inherently malicious. It's essentially a list of GitHub hosts. The real risk lies in the *potential* for vulnerabilities on those hosts, which could be exploited if discovered and not addressed. The focus should be on GitHub's security practices to ensure the integrity and confidentiality of their services. The lack of email addresses is an unusual aspect that requires consideration in the broader context of this scan. Without knowing more about the context of the scan, it's difficult to give a more precise risk assessment.

### ■ Subdomain\_enum Results

```
{'subdomains': [['i] Enumerating 10 candidates for github.com (DNS available: True, HTTP
```



## ■ AI Analysis of Subdomain\_enum

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## Reconnaissance Report: github.com Subdomain Enumeration \*\*Analysis of provided data:\*\* The enumeration output reveals 10 tested subdomains of `github.com`, with varying results. The tool attempted both DNS resolution and HTTP accessibility checks. \*\*Useful Subdomains:\*\* \* `api.github.com`: This is a critical subdomain, likely hosting the GitHub API. Its accessibility (HTTP 200) indicates the API is online and potentially vulnerable to attacks if not properly secured. \* `www.github.com`: The main website. Its accessibility is expected, but further investigation is needed for vulnerabilities. \* `admin.github.com`: The presence and accessibility (HTTP 200) of this subdomain is HIGHLY concerning. This likely points to an administrative panel or internal system. Immediate investigation is crucial. \* `test.github.com`: Although unreachable via HTTP, its resolution to a private IP address (192.0.2.1) suggests a testing or staging environment. This warrants further investigation as it may reveal internal system architecture. \*\*Risky Infrastructure Exposures:\*\* \* `admin.github.com` resolution: The biggest risk is the resolution of `admin.github.com` to a public IP address and the return of a HTTP 200 status. This strongly suggests a misconfiguration exposing a potentially sensitive administrative interface. This could allow attackers to access and compromise internal systems. \* `test.github.com` private IP: While currently unreachable via HTTP, the resolution to a private IP (192.0.2.1) is suspicious. Private IP addresses should not be publicly routable. This implies a misconfiguration potentially leaking internal network information. \* API Exposure (`api.github.com`): While expected, the API's accessibility warrants a thorough security assessment to identify and mitigate potential vulnerabilities in the API itself. \*\*Risk Level:\*\* \*\*HIGH\*\* The exposure of the `admin.github.com` subdomain and the potential internal network leakage via `test.github.com` represent significant risks. This warrants immediate attention. \*\*Suggested Next Actions:\*\* 1. \*\*Immediate Investigation of `admin.github.com`:\*\* Attempt to access the administrative panel to determine its exact functionality and identify potential vulnerabilities. This should be done ethically and only if authorized. Report findings immediately to Github's security team. 2. \*\*Investigate `test.github.com`:\*\* Determine why a private IP is publicly resolvable. This might indicate a misconfiguration in DNS or internal network routing. 3. \*\*Comprehensive Vulnerability Scan of `api.github.com` and `www.github.com`:\*\* Conduct a thorough security scan (OWASP ZAP, Burp Suite, etc.) to identify potential vulnerabilities in these critical subdomains. 4. \*\*Expand Subdomain Enumeration:\*\* Use more sophisticated tools (e.g., amass, subfinder, crt.sh) to find additional subdomains that might have been missed. 5. \*\*Network Mapping:\*\* If possible, conduct a network mapping exercise to gain a better understanding of GitHub's network infrastructure and identify any other potential exposures. 6. \*\*Review DNS Records:\*\* Thoroughly review the DNS records for all identified subdomains to look for misconfigurations or anomalies. This initial reconnaissance has uncovered critical vulnerabilities. Swift action is required to mitigate the risks associated with the exposed administrative panel and potential internal network information leakage. This report should be escalated immediately to the appropriate security teams.

## ■ Sql\_injection Results

```
{'output': ' _____\n      _H_\n      _[.]_      {1.9.8.5#dev}\n      -| . [
```

## ■ AI Analysis of Sql\_injection

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AI Analysis failed: 429 You exceeded your current quota, please check your plan and billing details. For more information on this error, head to: <https://ai.google.dev/gemini-api/docs/rate-limits>. [violations { quota\_metric: "generativelanguage.googleapis.com/generate\_content\_free\_tier\_requests" quota\_id: "GenerateRequestsPerDayPerProjectPerModel-FreeTier" quota\_dimensions { key: "model" value: "gemini-1.5-flash" } quota\_dimensions { key: "location" value: "global" } quota\_value: 50 }, links { description: "Learn more about Gemini API quotas" url: "https://ai.google.dev/gemini-api/docs/rate-limits" }, retry\_delay { seconds: 6 } ]

## ■ Nmap Results

```
{'20.207.73.82': {'state': 'up', 'os': [{'name': 'FreeBSD 13.0-RELEASE', 'accuracy': '89'}
```

## ■ AI Analysis of Nmap

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## Nmap Scan Result Analysis: 20.207.73.82 \*\*Services and Versions:\*\* \* \*\*SSH (port 22):\*\* Open, version unknown. \* \*\*HAProxy (port 80 & 443):\*\* Open, version 2.0.0 or later. This acts as a reverse proxy, meaning other services likely exist behind it. \*\*Possible Vulnerabilities:\*\* The lack of specific version information for SSH and the broad version range for HAProxy hinder precise vulnerability identification. However, we can discuss potential risks based on general vulnerabilities associated with these services: \* \*\*SSH (port 22):\*\* Without the version, it's impossible to identify specific CVEs. However, older SSH versions are frequently targeted by brute-force attacks, credential stuffing, and exploits leveraging known vulnerabilities. A risk assessment requires further investigation, including a version check using a more detailed Nmap scan (`-sV -sC` for more aggressive version detection) or a dedicated SSH vulnerability scanner. \* \*\*HAProxy (port 80 & 443):\*\* HAProxy itself is generally robust, but vulnerabilities can exist depending on its configuration and version. Older versions (even within the 2.0.0+ range) have had CVEs related to: \* \*\*Command injection:\*\* Improperly configured HAProxy could be vulnerable to command injection via manipulating certain HTTP headers or parameters. This could lead to arbitrary code execution on the server. (Searching for "HAProxy command injection CVE" will yield relevant results depending on the specific version found after further scanning.) \* \*\*Denial of Service (DoS):\*\* HAProxy can be susceptible to various DoS attacks, including those exploiting memory leaks or inefficient resource handling. \* \*\*Configuration flaws:\*\* Misconfigurations in HAProxy's access control lists (ACLs) could allow unauthorized access to backend servers. \* \*\*Backend server vulnerabilities:\*\* Because HAProxy acts as a reverse proxy, vulnerabilities in the backend servers it protects are a critical concern. The attack surface is considerably larger than just the HAProxy itself. \*\*Risk Level:\*\* \*\*Medium.\*\* The identified services are essential, and their open nature represents a risk. The lack of specific version information prevents a more precise assessment. The risk is elevated because a reverse proxy (HAProxy) hides the services behind it, requiring further investigation to understand the full attack surface. \*\*Exploitation Tools and Methods:\*\* \* \*\*SSH:\*\* To test SSH vulnerability, we'd need to obtain the version first. Tools like `nmap` with `-sV` flag or `ssh-audit` can be used. Then, specific exploits or brute-forcing tools (like Hydra or Meduza) could be considered \*only\* after obtaining explicit permission from the client. \* \*\*HAProxy:\*\* Further investigation is crucial here. Tools like OWASP ZAP or Burp Suite could be used to perform a thorough security assessment of the web application behind HAProxy. Manual testing should be done to look for common vulnerabilities like command injection (by crafting malicious HTTP requests) or configuration issues. \* \*\*General Reconnaissance:\*\* Additional Nmap scans with more detailed options (`-A`, `-sC`, `-T4`) should be used to gather more information about the target's operating system, open ports, and services. Tools like `Nikto` or `DirBuster` can be used to check for vulnerabilities in the web application(s) behind HAProxy. \*\*Disclaimer:\*\* Penetration testing should only be performed with explicit written authorization from the target system's owner. Unauthorized penetration testing is illegal and unethical. The information provided here is for educational purposes only.

## ■ Sublist3r Results

```
{'subdomains': ['www.github.com', '', 'api.github.com', '', 'archiveprogram.github.com',
```

## ■ AI Analysis of Sublist3r

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AI Analysis failed: 429 You exceeded your current quota, please check your plan and billing details. For more information on this error, head to: <https://ai.google.dev/gemini-api/docs/rate-limits>. [violations { quota\_metric: "generativelanguage.googleapis.com/generate\_content\_free\_tier\_requests" quota\_id: "GenerateRequestsPerDayPerProjectPerModel-FreeTier" quota\_dimensions { key: "model" value: "gemini-1.5-flash" } quota\_dimensions { key: "location" value: "global" } quota\_value: 50 } , links { description: "Learn more about Gemini API quotas" url: "https://ai.google.dev/gemini-api/docs/rate-limits" } , retry\_delay { seconds: 21 } ]