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# **ADDITIONAL RESOURCES**

#### **Chapter 0: Preparing for Your Security Tests**

Khawaja, Gus. Kali Linux Penetration Testing Bible. Indianapolis, IN: Wiley, 2021.

Li, Vickie. *Bug Bounty Bootcamp: The Guide to Finding and Reporting Web Vulnerabilities*. San Francisco: No Starch Press, 2021.

Weidman, Georgia. *Penetration Testing: A Hands-On Introduction to Hacking*. San Francisco: No Starch Press, 2014.

# **Chapter 1: How Web Applications Work**

Hoffman, Andrew. *Web Application Security: Exploitation and Countermeasures for Modern Web Applications*. Sebastopol, CA: O'Reilly, 2020.

"HTTP Response Status Codes." MDN Web Docs. <a href="https://developer.mozilla.org/en-U">https://developer.mozilla.org/en-U</a>
<a href="mailto:S/docs/Web/HTTP/Status">S/docs/Web/HTTP/Status</a>.

Stuttard, Dafydd, and Marcus Pinto. Web Application Hacker's Handbook: Finding and Exploiting Security Flaws. Indianapolis, IN: Wiley, 2011.

#### **Chapter 2: The Anatomy of Web APIs**

"API University: Best Practices, Tips & Tutorials for API Providers and Developers." ProgrammableWeb. <a href="https://www.programmableweb.com/api-university">https://www.programmableweb.com/api-university</a>.

Barahona, Dan. "The Beginner's Guide to REST API: Everything You Need to Know." APIsec, June 22, 2020. <a href="https://www.apisec.ai/blog/rest-api-and-its-significanc">https://www.apisec.ai/blog/rest-api-and-its-significanc</a> <a href="https://www.apisec.ai/blog/rest-api-and-its-significanc">e-to-web-service-providers</a>.

Madden, Neil. API Security in Action. Shelter Island, NY: Manning, 2020.

Richardson, Leonard, and Mike Amundsen. *RESTful Web APIs*. Beijing: O'Reilly, 2013.

Siriwardena, Prabath. *Advanced API Security: Securing APIs with OAuth 2.0, OpenID Connect, JWS, and JWE.* Berkeley, CA: Apress, 2014.

#### **Chapter 3: Common API Vulnerabilities**

Barahona, Dan. "Why APIs Are Your Biggest Security Risk." APIsec, August 3, 2021. <a href="https://www.apisec.ai/blog/why-apis-are-your-biggest-security-risk">https://www.apisec.ai/blog/why-apis-are-your-biggest-security-risk</a>.

"OWASP API Security Project." OWASP. <a href="https://owasp.org/www-project-api-security">https://owasp.org/www-project-api-security</a>.

"OWASP API Security Top 10." APIsecurity.io. <u>https://apisecurity.io/encyclopedia/content/owasp/owasp-api-security-top-10</u>.

Shkedy, Inon. "Introduction to the API Security Landscape." Traceable, April 14, 2021. <a href="https://lp.traceable.ai/webinars.html?commid=477082">https://lp.traceable.ai/webinars.html?commid=477082</a>.

#### **Chapter 4: Your API Hacking System**

"Introduction." Postman Learning Center. <a href="https://learning.postman.com/docs/getti">https://learning.postman.com/docs/getti</a> <a href="mailto:ng-started/introduction">ng-started/introduction</a>.

O'Gorman, Jim, Mati Aharoni, and Raphael Hertzog. *Kali Linux Revealed: Mastering the Penetration Testing Distribution*. Cornelius, NC: Offsec Press, 2017.

"Web Security Academy." PortSwigger. <a href="https://portswigger.net/web-security">https://portswigger.net/web-security</a>.

#### **Chapter 5: Setting Up Vulnerable API Targets**

Chandel, Raj. "Web Application Pentest Lab Setup on AWS." Hacking Articles, December 3, 2019. <a href="https://www.hackingarticles.in/web-application-pentest-lab-setup">https://www.hackingarticles.in/web-application-pentest-lab-setup</a> <a href="https://www.hackingarticles.in/web-application-pentest-lab-setup">-on-aws</a>.

KaalBhairav. "Tutorial: Setting Up a Virtual Pentesting Lab at Home." Cybrary, September 21, 2015. <a href="https://www.cybrary.it/blog/0p3n/tutorial-for-setting-up-a-virtual-penetration-testing-lab-at-your-home">https://www.cybrary.it/blog/0p3n/tutorial-for-setting-up-a-virtual-penetration-testing-lab-at-your-home</a>.

OccupyTheWeb. "How to Create a Virtual Hacking Lab." Null Byte, November 2, 2016. <a href="https://null-byte.wonderhowto.com/how-to/hack-like-pro-create-virtual-hacking-lab-0157333">https://null-byte.wonderhowto.com/how-to/hack-like-pro-create-virtual-hacking-lab-0157333</a>.

Stearns, Bill, and John Strand. "Webcast: How to Build a Home Lab." Black Hills Information Security, April 27, 2020. <a href="https://www.blackhillsinfosec.com/webcast-ho">https://www.blackhillsinfosec.com/webcast-ho</a> w-to-build-a-home-lab.

#### **Chapter 6: Discovery**

"API Directory." ProgrammableWeb. <u>https://www.programmableweb.com/apis/directory.</u>

Doerrfeld, Bill. "API Discovery: 15 Ways to Find APIs." Nordic APIs, August 4, 2015. https://nordicapis.com/api-discovery-15-ways-to-find-apis.

Faircloth, Jeremy. *Penetration Tester's Open Source Toolkit.* 4th ed. Amsterdam: Elsevier, 2017.

"Welcome to the RapidAPI Hub." RapidAPI. <a href="https://rapidapi.com/hub">https://rapidapi.com/hub</a>.

#### **Chapter 7: Endpoint Analysis**

Bush, Thomas. "5 Examples of Excellent API Documentation (and Why We Think So)." Nordic APIs, May 16, 2019. <a href="https://nordicapis.com/5-examples-of-excellent-api-documentation">https://nordicapis.com/5-examples-of-excellent-api-documentation</a>.

Isbitski, Michael. "AP13: 2019 Excessive Data Exposure." Salt Security, February 9, 2021. <a href="https://salt.security/blog/api3-2019-excessive-data-exposure">https://salt.security/blog/api3-2019-excessive-data-exposure</a>.

Scott, Tamara. "How to Use an API: Just the Basics." Technology Advice, August 20, 2021. <a href="https://technologyadvice.com/blog/information-technology/how-to-use-an-api">https://technologyadvice.com/blog/information-technology/how-to-use-an-api</a>.

#### **Chapter 8: Attacking Authentication**

Bathla, Shivam. "Hacking JWT Tokens: SQLi in JWT." Pentester Academy, May 11, 2020. <a href="https://blog.pentesteracademy.com/hacking-jwt-tokens-sqli-in-jwt-7fec22adbf7">https://blog.pentesteracademy.com/hacking-jwt-tokens-sqli-in-jwt-7fec22adbf7</a> <a href="https://d.">d.</a>

Lensmar, Ole. "API Security Testing: How to Hack an API and Get Away with It." Smartbear, November 11, 2014. <a href="https://smartbear.com/blog/api-security-testing-ho">https://smartbear.com/blog/api-security-testing-ho</a> <a href="https://smartbear.com/blog/api-security-testing-ho">w-to-hack-an-api-part-1</a>.

# **Chapter 9: Fuzzing**

"Fuzzing." OWASP. <a href="https://owasp.org/www-community/Fuzzing">https://owasp.org/www-community/Fuzzing</a>.

# **Chapter 10: Exploiting Authorization**

Shkedy, Inon. "A Deep Dive on the Most Critical API Vulnerability—BOLA (Broken Object Level Authorization)." <a href="https://inonst.medium.com">https://inonst.medium.com</a>.

#### **Chapter 11: Mass Assignment**

"Mass Assignment Cheat Sheet." OWASP Cheat Sheet Series. <u>https://cheatsheetseries.owasp.org/cheatsheets/Mass Assignment Cheat Sheet.html.</u>

#### **Chapter 12: Injection**

Belmer, Charlie. "NoSQL Injection Cheatsheet." Null Sweep, June 7, 2021. <a href="https://nullsweep.com/nosql-injection-cheatsheet">https://nullsweep.com/nosql-injection-cheatsheet</a>.

"SQL Injection." PortSwigger Web Security Academy. <u>https://portswigger.net/web-security/sql-injection</u>.

Zhang, YuQing, QiXu Liu, QiHan Luo, and XiaLi Wang. "XAS: Cross-API Scripting Attacks in Social Ecosystems." *Science China Information Sciences* 58 (2015): 1–14. https://doi-org.ezproxy.sfpl.org/10.1007/s11432-014-5145-1.

# Chapter 13: Applying Evasive Techniques and Rate Limit Testing

"How to Bypass WAF HackenProof Cheat Sheat." Hacken, December 2, 2020. <a href="http">http</a>
<a href="mailto:s://hacken.io/researches-and-investigations/how-to-bypass-waf-hackenproof-cheat-sheet">heet</a>.
<a href="mailto:searches-and-investigations/how-to-bypass-waf-hackenproof-cheat-sheet">heet</a>.

Simpson, J. "Everything You Need to Know About API Rate Limiting." Nordic APIs, April 18, 2019. <a href="https://nordicapis.com/everything-you-need-to-know-about-api-rate-l">https://nordicapis.com/everything-you-need-to-know-about-api-rate-l</a>

imiting.

#### Chapter 14: Attacking GraphQL

"How to Exploit GraphQL Endpoint: Introspection, Query, Mutations & Tools." YesWeRHackers, March 24, 2021. <a href="https://blog.yeswehack.com/yeswerhackers/how-e">https://blog.yeswehack.com/yeswerhackers/how-e</a> xploit-graphql-endpoint-bug-bounty.

Shah, Shubham. "Exploiting GraphQL." Asset Note, August 29, 2021. <a href="https://blog.as">https://blog.as</a> <a href="mailto:setnote.io/2021/08/29/exploiting-graphql">setnote.io/2021/08/29/exploiting-graphql</a>.

Swiadek, Tomasz, and Andrea Brancaleoni. "That Single GraphQL Issue That You Keep Missing." Doyensec, May 20, 2021. <u>https://blog.doyensec.com/2021/05/20/grap hql-csrf.html</u>.

## **Chapter 15: Data Breaches and Bug Bounties**

"API Security Articles: The Latest API Security News, Vulnerabilities & Best Practices." APIsecurity.io. <a href="https://apisecurity.io">https://apisecurity.io</a>.

"List of Bug Bounty Writeups." Pentester Land: Offensive InfoSec. <a href="https://penteste">https://penteste</a>
<a href="r.land/list-of-bug-bounty-writeups.html">r.land/list-of-bug-bounty-writeups.html</a>.