



Web Application hacking - Advance Level 2.0

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Day One

Module 1: Bug hunters VPS & Training Lab access

- What is Bughunters VPS and a walk through of the VPS.
 - How to use the VPS?
 - Best tools (online and offline), guides, Hacker's Mind Map etc.
- What's new on the improved Bughunters VPS:
 - New tools
 - More security
 - More Power
- How to make best use of Bug Hunter's VPS.

Module 2: Basics of everything (in security) & Client side vulnerabilities

- Basics about Web application and Http Protocols
- Using Burp Suite - Basic to Advance
- Information gathering /Recon to increase the attack surface
 - Subdomain scanning + takeover
 - Using VPS to find vulnerabilities related to misconfigurations
- Client Side vulnerabilities
 - Cross site scripting
 - Stored XSS exploitation
 - Reflected XSS exploitation
 - How to exploit real world Self XSS (getting paid for self XSS)
 - Finding & Exploiting the XSS in a real world application
 - HTML Injection
 - SOP & CORS misconfigurations and exploiting the misconfiguration
 - Cross Site Request Forgery
 - Basics & approach for testing
 - Finding & Exploiting the CSRF in a real world application
 - Other client side vulnerabilities

Module 3: Authentication & Authorisation vulnerabilities

- Finding and Exploiting vulnerabilities in:
 - Oauth
 - JWT
 - SAML authentication
 - Missing access control vulnerabilities
 - Insecure direct object reference
 - Finding & Exploiting the IDOR in real world application
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Day Two

Module 4: Server Side vulnerabilities

- SQL injection
 - Basics and test cases
 - Finding & Exploiting the SQL in a real world application
- XML External Entity
 - XML injection in REST API?
 - Finding & Exploiting the XXE in a real world application
- Server Side Request Forgery
 - How to test for SSRF
 - SSRF exploitation in a real world application
- Server Side Template injection (SSTI)
 - Finding & Exploiting the XXE in a real world application

Module 5: Remote Code Execution

- What is RCE?
 - Ways to achieve a remote code execution on a web/app server
 - Using Metasploit and public exploits for finding and exploiting RCE
 - RFI to Remote shell (On a real world application)
 - SSTI to Remote shell (On a real world application)
 - Exploiting server side template injection to achieve remote shell
 - Deserialization to Remote code execution (On a real world application)
 - Exploiting a vulnerability in deserialisation in application
 - Command injection to Remote shell (On a real world application)
 - Exploiting a vulnerability in an application source code
 - Remote code execution (remote shell) due to misconfigurations
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