

# System Requirements and Specifications

## 1. Hardware Requirements

Component	Specification
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Processor (CPU)	Intel i5/i7 or AMD Ryzen 5 and above
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RAM	Minimum 8 GB (16 GB Recommended)
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Storage	At least 30 GB of free disk space
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Internet	Stable internet connection for updates and accessing online tools
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## 2. Software Requirements

Software Component	Version / Description
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Operating System	Kali Linux (latest version) via VMware Workstation
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Web Browser	Firefox (used with Burp Suite)
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XAMPP / LAMP Stack	Apache, PHP 7.x, MariaDB (used to host DVWA)
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DVWA	Damn Vulnerable Web Application – Latest GitHub version
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<b>Burp Suite</b>	Community Edition (used for intercepting HTTP requests)
<b>FoxyProxy Extension</b>	Firefox Add-on (used to redirect browser traffic to Burp)
<b>Hash Cracking Tool</b>	CrackStation.net (used for password hash verification)

### 3. Network and Dependencies

<b>Dependency Type</b>	<b>Description</b>
<b>Localhost Hosting</b>	DVWA is hosted locally via XAMPP/LAMP stack
<b>Port Configuration</b>	Apache – Port 80, MariaDB – Port 3306
<b>Proxy Configuration</b>	FoxyProxy redirects browser traffic to Burp Suite's proxy
<b>Firewall Settings</b>	Local firewall should allow Apache, PHP, and MySQL
<b>Internet Access</b>	Required for CrackStation and documentation resources

### 4. Special Configurations

- **DVWA Security Level:** Set to Low, Medium, and High (throughout the testing)

- **Database Configuration:** Set up using `dvwa/setup.php` script
- **PHP Configuration:** `allow_url_include = On`,  
`display_errors = On`
- **Burp Suite Setup:**
  - Listener configured on `127.0.0.1:8080`
  - Firefox proxy set to route all traffic through Burp
- **CrackStation Use:** Accessed via browser to crack MD5 password hashes
- **FoxyProxy Rules:** Configured to turn proxy on only for localhost testing