

# EC-Council Licensed Penetration Tester

Methodology: Source Code Penetration Testing

Penetration Tester:			
Organization:			
Date:		Location:	



**Test 1: Identify the programming language used**

<b>Target Organization</b>	
<b>URL</b>	
<b>Programming Language Identified</b>	
<b>Techniques Used</b>	
<b>Tools/Services Used</b>	<div><div>1.</div><div>2.</div><div>3.</div><div>4.</div><div>5.</div></div>

**Results Analysis:**

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**Test 2: Categorize the application's architecture**

<b>Target Organization</b>	
<b>URL</b>	
<b>Application Architecture Determined From</b>	
<input type="checkbox"/> Design Documents:	
<input type="checkbox"/> Business Requirement Documents:	
<input type="checkbox"/> Functional Specification Documents:	
<input type="checkbox"/> Test Results:	
<b>Application Information Gathered</b>	<div>1. _____</div> <div>2. _____</div> <div>3. _____</div> <div>4. _____</div> <div>5. _____</div>
<b>Tools/Services Used</b>	<div>1. _____</div> <div>2. _____</div> <div>3. _____</div> <div>4. _____</div> <div>5. _____</div>

**Results Analysis:**

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**Test 3: Verify input and data validations**

<b>Target Organization</b>			
<b>URL</b>			
<b>Data Validation Mechanism is Present</b>	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<b>Length Checks Implemented for all Input Fields</b>	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<b>Data Validation Strategies</b>			
<b>Tools/Services Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____		

**Results Analysis:**

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**Test 4: Verify authentication**

<b>Target Organization</b>			
<b>URL</b>			
<b>Internal Connection Authentication</b>			
<b>External Connection Authentication</b>			
<b>Method Used when Confidential Information is Passed</b>	<input type="checkbox"/> POST		
	<input type="checkbox"/> GET		
<b>Security Issues Outside the Scope of Authentication</b>			
<b>Authentication Credentials Passed In Clear Text Form</b>	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<b>Tools/Services Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____		

**Results Analysis:**

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**Test 5: Check for proper authorization**

<b>Target Organization</b>	
<b>URL</b>	
<b>Access Privileges for Users</b>	
<b>Authorization Procedures</b>	
<b>Tools/Services Used</b>	<div><div>1.</div><div>2.</div><div>3.</div><div>4.</div><div>5.</div></div>

**Results Analysis:**

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**Test 6: Identify for proper session management**

<b>Target Organization</b>		
<b>URL</b>		
<b>Session ID Discovered</b>		
<b>Next Session ID can be Guessed</b>		
<b>Session Storage Technique</b>	1. _____ 2. _____ 3. _____	
<b>Session Tracking Method</b>	1. _____ 2. _____ 3. _____	
<b>Session Validation</b>	<input type="checkbox"/> True	<input type="checkbox"/> False
<b>Session Expiry Time</b>		
<b>Tools/Services Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____	

**Results Analysis:**

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**Test 7: Check for cross site scripting vulnerabilities**

<b>Target Organization</b>			
<b>URL</b>			
<b>Input Fields Accept "Html Code" and Execute it</b>	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<b>Scripting Languages Accepted by Input Fields</b>			
1.	4.		
2.	5.		
3.	6.		
<b>Information Gathered by Exploiting Cookies</b>	1. 2. 3. 4. 5.		
<b>User Validation Before Performing Security-Sensitive Operations</b>	<input type="checkbox"/> True	<input type="checkbox"/> False	
<b>Tools/Services Used</b>	1. 2. 3. 4. 5.		

**Results Analysis:**

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### Test 8: Check for SQL injection vulnerability

<b>Target Organization</b>			
<b>URL</b>			
<b>Application Input Fields Accept SQL Queries</b>	<input type="checkbox"/> True	<input type="checkbox"/> False	
<b>Query Construction Method</b>	1. _____ 2. _____ 3. _____		
<b>Techniques Used to Access Database</b>	1. _____ 2. _____ 3. _____		
<b>Privilege of the User Account Used to Make Database Connection</b>	1. _____ 2. _____ 3. _____		
<b>Tools/Services Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____		

### Results Analysis:

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**Test 9: Check for proper buffer overflows and overruns**

<b>Target Organization</b>		
<b>URL</b>		
<b>Identified Input Areas</b>		
<b>Identify Input Fields that take Strings as Input</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____	
<b>Unsafe Functions used by the Code</b>		
1. _____	4. _____	
2. _____	5. _____	
3. _____	6. _____	
<b>Tools/Services Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____	

**Results Analysis:**

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**Test 10: Check for vulnerabilities in error handling mechanisms**

<b>Target Organization</b>	
<b>URL</b>	
<b>When an Error Occurs in an Application, Check</b>	
<input type="checkbox"/> System information is leaked to the user	
<input type="checkbox"/> Resources are Locked	
<input type="checkbox"/> Sessions are Terminated	
<input type="checkbox"/> Calculations and Business Logic are Halted	
<b>Sensitive Information Revealed due to the Error Message</b>	<div>1. _____</div> <div>2. _____</div> <div>3. _____</div> <div>4. _____</div> <div>5. _____</div>
<b>Tools/Services Used</b>	<div>1. _____</div> <div>2. _____</div> <div>3. _____</div> <div>4. _____</div> <div>5. _____</div>

**Results Analysis:**

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### Test 11: Check for secured cryptography

<b>Target Organization</b>			
<b>URL</b>			
<b>Cryptographic Methodology Implemented</b>			
<b>Clear Text Used for Storing Confidential Information</b>	<input type="checkbox"/> True	<input type="checkbox"/> False	
<b>Short Keys Used</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
<b>Weak Algorithms Used</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
<b>Keys Storage Location</b>	<input type="checkbox"/> Secure	<input type="checkbox"/> Insecure	
<b>Algorithms Used</b>	<input type="checkbox"/> Standard	<input type="checkbox"/> Non-Standard	
<b>Hard Coding of Keys Implemented</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
<b>Tools/Services Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____		

### Results Analysis:

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**Test 12: Check for secured logging**

<b>Target Organization</b>	
<b>URL</b>	
<b>Sensitive Data Logged when Error Occurred</b>	<div>1.</div> <div>2.</div> <div>3.</div> <div>4.</div> <div>5.</div>
<b>Logging Frameworks</b>	<div>1.</div> <div>2.</div> <div>3.</div> <div>4.</div> <div>5.</div>
<b>Tools/Services Used</b>	<div>1.</div> <div>2.</div> <div>3.</div> <div>4.</div> <div>5.</div>

**Results Analysis:**