



# Certified Penetration Testing Professional

**Methodology: Open-Source Intelligence (OSINT)**

<b>Penetration Tester:</b>			
<b>Organization:</b>			
<b>Date:</b>		<b>Location:</b>	

## Test 1: OSINT through the WWW

## Test 1.1: Find the Domain and Sub-domains of the Target

Target Organization			
URL			
Search Engine Used			
Found the Domain and Sub-domains of the Target Successfully?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Attack Surfaces of Target Organization			
Command Used			
Domain and Sub-domains Identified	1. _____		
	2. _____		
	3. _____		
	4. _____		
	5. _____		

### Results Analysis:

**Test 1.2: Find Similar or Parallel Domain Names**

<b>Target Organization</b>	
<b>URL</b>	
<b>Country Code</b>	<b>URL</b>
<b>Tools/Services Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____

**Results Analysis:**

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## Test 1.3: Refine Web Searches using Advanced Operators

Target Organization		
URL		
Search Engine Used		
Refined Your Web Searches using Google's Advanced Operators?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Google's Advanced Operators Used	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	
Queries to find, filter, and sort Specific Information		
Information Gathered		
Technique Used		
	<b>GHDB Search Query Used</b>	<b>Information Gathered</b>

<b>Tools Used</b>	1.
	2.
	3.
	4.
	5.

**Results Analysis:**

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**Test 1.4: Footprint the Target using Shodan**

<b>Target Organization</b>			
<b>URL</b>			
<b>Successfully Blueprinted the Target using Shodan?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
<b>Devices Identified using Shodan</b>	<div><input type="checkbox"/> Webcam</div> <div><input type="checkbox"/> Router</div> <div><input type="checkbox"/> Switches</div> <div><input type="checkbox"/> Others Specify</div> <div></div> <div></div> <div></div>		
<b>Tools/Services Used</b>	<div>1. <div></div></div> <div>2. <div></div></div> <div>3. <div></div></div> <div>4. <div></div></div> <div>5. <div></div></div>		

**Results Analysis:**

**Test 1.5: Find the Geographical Location of a Company**

<b>Target Organization</b>		
<b>URL</b>		
<b>Location of the Organization</b>		
<b>Recovered Maps?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>Neighboring company and famous landmarks</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____	
<b>Tools/Services Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____	

**Results Analysis:**

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**Test 1.6: List Employees and their Email Addresses**

<b>Target Organization</b>		
<b>URL</b>		
<b>Employee Name</b>	<b>Email IDs/Contact Details</b>	
<b>Tools/Services Used</b>	1. _____	
	2. _____	
	3. _____	
	4. _____	
	5. _____	

**Results Analysis:**

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**Test 1.7: Identify Key Email Addresses through Email Harvesting**

<b>Target Organization</b>		
<b>URL</b>		
<b>Command used</b>		
<b>Domain Name</b>	<b>Employee Name</b>	<b>Email IDs</b>
<b>Tools/Services Used</b>	<div>1. _____</div> <div>2. _____</div> <div>3. _____</div> <div>4. _____</div> <div>5. _____</div>	

**Results Analysis:**

## Test 1.8: Enumerate Key Email Addresses from Pastebin and HavelBeenPwned

Target Organization				
URL				
Website(s) used	<input type="checkbox"/> Pastebin <input type="checkbox"/> HavelBeenPwned <input type="checkbox"/> Others Specify <hr/> <hr/> <hr/>			
Employee Name	Telephone	Date of Birth	Email	Residential Address
Tools/Services Used	1. <hr/> 2. <hr/> 3. <hr/> 4. <hr/> 5. <hr/>			

**Results Analysis:**

A large, empty rectangular box with a thin black border, intended for the user to write or paste their results analysis.

## Test 1.9: List Key Personnel of the Company

<b>Target Organization</b>					
<b>URL</b>					
<b>Search Engine Used</b>					
<b>Job Sites</b>					
<b>Employee Name</b>	<b>Resumes</b>	<b>Work experience</b>	<b>Completed projects</b>	<b>Promotions</b>	<b>Accomplishments</b>
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
	<input type="checkbox"/>				
<b>Tools/Services Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____				

## Results Analysis:

## Test 1.10: Using People Search Online Services to Collect Information

Target Organization						
URL						
Employee Name	Contact Number	Date of Birth	Email	Residential Address	Photo	Satellite pictures of private residences
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Any other information found:	<hr/> <hr/>					

### Results Analysis:

**Test 1.11: Browse Social Network Websites to Find Information on the Company and Employees**

<b>Target Organization</b>	
<b>URL</b>	
<b>Information gathered</b>	
<b>Social Networks Used</b>	<div>1. _____</div> <div>2. _____</div> <div>3. _____</div> <div>4. _____</div> <div>5. _____</div>

**Results Analysis:**

**Test 1.12: Use Web Investigation Tools to Extract Sensitive Data about the Company**

<b>Target Organization</b>	
<b>URL</b>	
<b>Information Gathered</b>	<div>1. _____</div> <div>2. _____</div> <div>3. _____</div> <div>4. _____</div> <div>5. _____</div> <div>6. _____</div> <div>7. _____</div> <div>8. _____</div> <div>9. _____</div> <div>10. _____</div>
<b>Tools/Services Used</b>	<div>1. _____</div> <div>2. _____</div> <div>3. _____</div> <div>4. _____</div> <div>5. _____</div>

**Results Analysis:**



**Test 1.13: Identify the Type of Network Devices used in the Organization**

<b>Target Organization</b>	
<b>URL</b>	
<b>Search Engines Used</b>	
<b>Sources Used to Gather relevant Information</b>	
<b>Company's Infrastructure in the Organization</b>	<div><input type="checkbox"/> Oracle database server</div> <div><input type="checkbox"/> Cisco routing devices</div> <div><input type="checkbox"/> Checkpoint firewalls</div> <div><input type="checkbox"/> Any other, specify</div> <div></div> <div></div> <div></div>
<b>Network Devices Identified</b>	
<b>Tools/Techniques Used</b>	<div>1.</div> <div>2.</div> <div>3.</div> <div>4.</div> <div>5.</div> <div></div>

**Results Analysis:**

## Test 1.14: Look for the Sensitive Information in Email Headers

Target Organization					
URL					
Email ID	Recipient's IP address	Information on browser and operating system	MIME-Version	Geo-location	Device Type
Any other information found:	<hr/> <hr/> <hr/>				
Tools/Techniques Used	1. <hr/>				
	2. <hr/>				
	3. <hr/>				
	4. <hr/>				
	5. <hr/>				

## Results Analysis:

**Test 1.15: Look for Valuable Information in NNTP Usenet Newsgroups**

<b>Target Organization</b>	
<b>Newsgroups Used to gather Information</b>	
<b>Information Gathered</b>	
<b>Tools/Techniques Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____

**Results Analysis:**

**Test 1.16: Other Useful Footprinting Activities to Find Information about the Target**

- Search for the company's information in online trade association directories

<b>Target Organization</b>	
<b>URL</b>	
<b>Information Gathered</b>	
<b>Tools/Techniques Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____

**Results Analysis:**

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- Collect the company's information through groups, forums, and blogs

<b>Target Organization</b>	
<b>URL</b>	
<b>Groups/Forums/Blogs used for gathering information</b>	

Public network information found	
System information found	
Employee information found	
Tools/Techniques Used	1.
	2.
	3.
	4.
	5.

### Results Analysis:

- **Search for press releases issued by the company using Google/Yahoo Finance**

<b>Target Organization</b>	
<b>URL</b>	
<b>Tools used</b>	<input type="checkbox"/> Google Finance <input type="checkbox"/> Yahoo Finance <input type="checkbox"/> Any other, specify

	<hr/> <hr/> <hr/>
<b>Information Gathered</b>	
<b>Tools/Techniques Used</b>	1. <hr/> 2. <hr/> 3. <hr/> 4. <hr/> 5. <hr/>

**Results Analysis:**

- Search for the link popularity of the company's website

<b>Target Organization</b>	
<b>URL</b>	
<b>Information Gathered</b>	

<b>Tools/Techniques Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____

**Results Analysis:**

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- Monitor the target using alerts such as Google Alerts, Yahoo Alerts, and Twitter Alerts

<b>Target Organization</b>	
<b>URL</b>	
<b>Alert used</b>	<input type="checkbox"/> Google Alerts <input type="checkbox"/> Yahoo Alerts <input type="checkbox"/> Twitter Alerts <input type="checkbox"/> Any other, specify _____ _____
<b>Information Gathered</b>	

<b>Tools/Techniques Used</b>	1. 2. 3. 4. 5.

**Results Analysis:**

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- Gather competitive intelligence by visiting websites such as EDGAR Database, Business Wire, LexisNexis, and Hoovers

<b>Target Organization</b>			
<b>URL</b>			
<b>Website used</b>	<input type="checkbox"/> EDGAR Database <input type="checkbox"/> Business Wire <input type="checkbox"/> LexisNexis <input type="checkbox"/> Hoovers <input type="checkbox"/> Any other, specify   		
<b>Company's establishment date</b>	<b>Strategy used</b>	<b>Location of the company</b>	<b>Branch</b>



<b>Tools/Techniques Used</b>	1. _____		
	2. _____		
	3. _____		
	4. _____		
	5. _____		

**Results Analysis:**

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- Search and list the products/services sold by the company

Target Organization		
URL		
Email	Product	Product Price

<b>Tools/Techniques Used</b>	1. 2. 3. 4. 5.	

**Results Analysis:**

- Compare the prices of products or services with those of the competitor

<b>Target Organization</b>	
<b>URL</b>	
<b>Merchant ratings of the company</b>	
<b>Customer reviews</b>	
<b>List of products and services provided by the company</b>	
<b>Tools/Techniques Used</b>	1.

	2.
	3.
	4.
	5.

**Results Analysis:**

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**Test 2: OSINT through Website Analysis****Test 2.1: Search Contact Information, Email Addresses, and Telephone Numbers from Company Website**

<b>Target Organization</b>	
<b>URL</b>	
<b>Contact Numbers</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____
<b>Email IDs</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____
<b>Addresses</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____
<b>Company's Location and Branches</b>	1. _____ 2. _____ 3. _____ 4. _____
<b>Partner's Information</b>	1. _____ 2. _____ 3. _____ 4. _____

	5. _____
<b>Any other information found</b>	_____
	_____
	_____
<b>Tools/Services Used</b>	1. _____
	2. _____
	3. _____
	4. _____
	5. _____

**Results Analysis:**

**Test 2.2: Search for Web Pages Posting Patterns and Revision Numbers**

<b>Target Organization</b>			
<b>URL</b>			
<b>Page URL</b>	<b>Revision Date</b>	<b>Nature of the Revision</b>	
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
<b>Any other information found</b>	<hr/> <hr/> <hr/>		
<b>Tools/Services Used</b>	1. <hr/>		
	2. <hr/>		
	3. <hr/>		
	4. <hr/>		
	5. <hr/>		

**Results Analysis:**

**Test 2.3: Search Archive.org for Old Information about the Company**

<b>Target Organization</b>			
<b>URL</b>			
<b>Page URL</b>	<b>Search Date</b>	<b>Page Found</b>	
1.		<input type="checkbox"/> Yes	<input type="checkbox"/> No
2.		<input type="checkbox"/> Yes	<input type="checkbox"/> No
3.		<input type="checkbox"/> Yes	<input type="checkbox"/> No
4.		<input type="checkbox"/> Yes	<input type="checkbox"/> No
5.		<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>Any other information found</b>	<hr/> <hr/> <hr/> <hr/>		
<b>Tools/Services Used</b>	1. <hr/>		
	2. <hr/>		
	3. <hr/>		
	4. <hr/>		
	5. <hr/>		

**Results Analysis:**

**Test 2.4: Monitor Web Updates using WebSite-Watcher**

<b>Target Organization</b>			
<b>URL</b>			
<b>Page URL</b>	<b>Revision Date</b>	<b>Nature of the Revision</b>	
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
<b>Any other information found</b>	<hr/> <hr/> <hr/>		
<b>Tools/Services Used</b>	1. <hr/>		
	2. <hr/>		
	3. <hr/>		
	4. <hr/>		
	5. <hr/>		

**Results Analysis:**



**Test 2.5: Examine HTML Source of the Web Pages**

<b>Target Organization</b>	
<b>URL</b>	
<b>HTML Source</b>	
<b>Information Gathered</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:**

**Test 3: OSINT through DNS Interrogation****Test 3.1: Perform Whois Lookups**

<b>Target Organization</b>	
<b>URL</b>	
<b>Registrars Searched</b>	<div><input type="checkbox"/> African Network Information Centre (AfriNIC)</div> <div><input type="checkbox"/> American Registry for Internet Numbers (ARIN)</div> <div><input type="checkbox"/> Asia-Pacific Network Information Centre (APNIC)</div> <div><input type="checkbox"/> Latin America and Caribbean Network Information Centre (LACNIC)</div> <div><input type="checkbox"/> Reseaux IP Europeens Network Coordination Centre (RIPE NCC)</div> <div><input type="checkbox"/> Any other, specify</div> <div></div> <div></div>
<b>Registrant Address</b>	<div></div> <div></div> <div></div> <div></div>
<b>Domain name details</b>	<div></div> <div></div> <div></div>
<b>IP address and Network Range</b>	
<b>Physical Location</b>	
<b>Administrative Contact</b>	<div></div> <div></div> <div></div>

<b>Technical Contact</b>	<hr/> <hr/> <hr/>
<b>Record Created On</b>	<hr/>
<b>Record Expires On</b>	<hr/>
<b>Database Last Updated On</b>	<hr/>
<b>Domain Servers In Listed Order</b>	<ol style="list-style-type: none"><li>1. <hr/></li><li>2. <hr/></li><li>3. <hr/></li><li>4. <hr/></li><li>5. <hr/></li></ol>
<b>Tools/Services Used</b>	<ol style="list-style-type: none"><li>1. <hr/></li><li>2. <hr/></li><li>3. <hr/></li><li>4. <hr/></li><li>5. <hr/></li></ol>

**Results Analysis:**

### Test 3.2: Find IP Address Block Allocated to the Organization

Target Organization		
URL		
Found IP Range Successfully?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
IP Registries Used		
Whois database Used		
IP Range Identified		
NSLookup Command		
Tools/Services Used	1. _____ 2. _____ 3. _____ 4. _____ 5. _____	

### Results Analysis:

## Test 3.3: Find the DNS Records for Domain

Target Organization				
URL				
Command Used				
DNS Records				
Name	Class	Type	Data	TTL
Any other information found	<hr/> <hr/> <hr/>			
Tools/Services Used	1. <hr/>			
	2. <hr/>			
	3. <hr/>			
	4. <hr/>			
	5. <hr/>			

**Results Analysis:**

A large, empty rectangular box with a thin black border, intended for the user to write or paste their results analysis.

**Test 3.4: Perform Reverse Lookups**

<b>Target Organization</b>		
<b>URL</b>		
<b>Performed Reverse DNS Lookup Successfully?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>Commands Used</b>		
<b>IP Range for Reverse DNS lookup</b>		
<b>DNS PTR records found</b>		
<b>Tools/Services Used</b>	<div>1. _____</div> <div>2. _____</div> <div>3. _____</div> <div>4. _____</div> <div>5. _____</div>	

**Results Analysis:**

## Test 3.5: Perform DNS Zone Transfer

Target Organization		
URL		
Performed DNS Zone Transfer Successfully?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Gathered DNS Information		
dig Commands Used to perform DNS Zone Transfer		
nslookup Commands Used to perform DNS Zone Transfer		
dnsrecon Commands Used to perform DNS Zone Transfer		
Identified Host Names		
Identified Machine Names		
Identified Usernames		
Identified IP Addresses		
Any other information found	<hr/> <hr/>	
Tools/Services Used	1. <hr/> 2. <hr/> 3. <hr/> 4. <hr/> 5. <hr/>	



**Results Analysis:**

A large, empty rectangular box with a thin black border, intended for the user to provide a detailed analysis of the results. It occupies the upper half of the page below the 'Results Analysis:' header.

**Test 3.6: Draw a Network Diagram using Traceroute Analysis**

<b>Target Organization</b>		
<b>URL</b>		
<b>Conducted Traceroute Successfully?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>Extracted Information after conducting Traceroute</b>		
<b>Is Network Diagram drawn successfully using Traceroute Analysis?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>Commands Used to perform Traceroute</b>		
<b>Any other information found</b>	<hr/> <hr/> <hr/>	
<b>Tools/Services Used</b>	<div>1. <hr/></div> <div>2. <hr/></div> <div>3. <hr/></div> <div>4. <hr/></div> <div>5. <hr/></div>	

**Results Analysis:**

**Test 3.7: Create Topological Map of the Network**

<b>Target Organization</b>		
<b>URL</b>		
<b>Created Physical and Logical Topological Map of the Network based on Information Gathered through Traceroute?</b>	<input type="checkbox"/> Yes If Yes, attach a copy of the network topology map	<input type="checkbox"/> No
<b>Tools/Services Used</b>	<div>1. _____</div> <div>2. _____</div> <div>3. _____</div> <div>4. _____</div> <div>5. _____</div>	

**Results Analysis:**

**Test 4: Automating your OSINT Effort using Tools/Frameworks/Scripts**

<b>Target Organization</b>		
<b>URL</b>		
<b>Is OSINT Efforts automated by using Tools/Frameworks/Scripts?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>Tools/Frameworks/Scripts Used</b>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____	
<b>Information Gathered</b>		

**Results Analysis:**

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