EC-Council Licensed Penetration Tester

Methodology: Cloud Penetration Testing

Penetration Tester:	
Organization:	
Date:	**Location:**

Test 1: Check for lock-in problems

Target Organization	
URL	
Impact of Lock-In on Business Services	1. 2. 3. 4. 5.
Service Level Agreement (SLA) between Subscriber and Cloud Service	
Determined Provisions to Switch Over to Other CSPS	
Tools/Services Used	1. 2. 3. 4. 5.

Results Analysis:

Test 2: Check for governance issues

Target Organization	
URL	
Information Gathered by Checking SLA Document and Track Record of the CSP	1. _____ 2. _____ 3. _____ 4. _____ 5. _____
Tools/Services Used	1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Results Analysis:

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Test 3: Check for compliance issues

Target Organization			
URL			
CSP is Regularly Audited and Certified for Compliance Issues	☐ YES		☐ NO
Regulations CSP Complies With			
Responsibilities of the CSP and Subscribers in Maintaining Compliance			
SLA Provides Transparency on Compliance Issues	☐ YES		☐ NO
Tools/Services Used	1. _____ 2. _____ 3. _____ 4. _____ 5. _____		

Results Analysis:

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Test 4: Check cloud for resource isolation

Target Organization	
URL	
Methods Used to Check Cloud Resource Isolation	1. 2. 3. 4. 5.
CSP's Client Feedback and Expert Reviews	1. 2. 3. 4. 5.
Tools/Services Used	1. 2. 3. 4. 5.

Results Analysis:

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Test 5: Check if anti-malware applications are installed and updated on every device

Target Organization	
URL	
Components of the Cloud Infrastructure	1. 2. 3.

Component of the Cloud Infrastructure Protected Using Appropriate Security Controls	☐ YES	☐ NO
Impact of Data Breach on Business	1. 2. 3. 4. 5.	
Tools/Services Used	1. 2. 3. 4. 5.	

Results Analysis:

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Test 6: Check if firewalls are installed at every network entry point

Target Organization			
URL			
Firewalls Installed at Every Network Entry Point	☐ True		☐ False
Unused Ports, Protocols, and Services			
Unused Ports, Protocols, and Services Blocked	☐ Yes		☐ No
Tools/Services Used	1. 2. 3. 4. 5.		

Results Analysis:

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Test 7: Check if strong authentication is deployed for every remote user

Target Organization			
URL			
Strong Authentication Deployed for Every Remote User	☐ True		☐ False
OTP Used to Validate the Passwords	☐ True		☐ False
Tools/Services Used	1. _____		
	2. _____		
	3. _____		
	4. _____		
	5. _____		

Results Analysis:

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Test 8: Check if file transfers to/from cloud servers are encrypted

Target Organization			
URL			
Cloud Services Enabled for SSL Encryption	☐ YES		☐ NO
VPN and Secure Email Services Used For Communication	☐ YES		☐ NO
Security and Privacy Policies of the Cloud Services	1. 2. 3. 4. 5.		
Tools/Services Used	1. 2. 3. 4. 5.		

Results Analysis:

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Test 9: Check if files stored on cloud servers are encrypted

Target Organization			
URL			
Data Stored in Cloud Servers is Encrypted	☐ True		☐ False
Encryption Algorithms Used	1. 2. 3.		
Cloud Service Providers or Service Users Hold the Algorithmic Keys for the Encryption	☐ True		☐ False
Tools/Services Used	1. 2. 3. 4. 5.		

Results Analysis:

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Test 10: Check the data retention policy of service providers

Target Organization	
URL	
Data Retention Policy of Service Providers	1. 2. 3.

Policies Bound By the Law of the Land to Disclose the Data to Third Parties	☐ True	☐ False

Duration of the Data Retention in the Cloud	
Procedures to Completely Erase the Data from the Cloud	1. 2. 3. 4. 5.
Tools/Services Used	1. 2. 3. 4. 5.

Results Analysis:

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Test 11: Check if all users follow safe Internet practices

Target Organization	
URL	
Computer and Internet Usage Policy	
Anti-malware Applications are Configured and Implemented for Safe Internet Practices	☐ True ☐ False
Tools/Services Used	1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Results Analysis:

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Test 12: Perform a detailed vulnerability assessment

Target Organization	
URL	
Vulnerability List Found for Components	1. 2. 3. 4. 5.
Tools/Services Used	1. 2. 3. 4. 5.

Results Analysis:

Test 13: Check audit and evidence-gathering features in the cloud service

Target Organization	
URL	
Cloud Service Provider Offers Features For Cloning of Virtual Machines	☐ YES ☐ NO

Evidence Gathered Using the Cloning Features	1. _____ 2. _____ 3. _____ 4. _____ 5. _____
Tools/Services Used	1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Results Analysis:

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Test 14: Perform automated cloud security testing

Target Organization		
URL		
Automated Cloud Security Testing Option Available	☐ True	☐ False
Verified Security of Cloud Deployments Against Real, Current Attack Techniques	1. 2. 3. 4. 5.	
Tools/Services Used	1. 2. 3. 4. 5.	

Results Analysis:

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