PCI DSS v4.0.1 Audit Plan

1.	Planning and Scope Definition
	1.1. Engagement Letter and Scope Definition: Obtain a signed engagement letter that already defines the scope of the
	 Obtain a signed engagement letter that clearly defines the scope of the assessment, including:
	■ The Cardholder Data Environment (CDE).
	■ All system components, people, and processes involved in cardholder data.
	■ The time period covered by the assessment.
	■ The specific PCI DSS version (4.0.1).
	Roles and responsibilities of the auditor and the entity being audited.
	O Document the scope in detail, including network diagrams, data flow diagrams, and
	lists of systems and applications.
	 Identify all third-party service providers involved in the CDE and their PCI DSS
	compliance status.
	1.2. Risk Assessment:
	Oconduct a preliminary risk assessment to identify potential areas of
	non-compliance. Review previous audit reports and remediation plans.
	Analyze the entity's risk management policies and procedures.
	O Determine the level of effort and resources required for the audit.
	1.3. Audit Team Formation:
	 Assemble a qualified audit team with the necessary PCI DSS expertise.
	 Ensure the team is independent and free from conflicts of interest.
	Assign specific responsibilities to each team member.
	1.4. Audit Plan Development:
	O Develop a detailed audit plan, including:
	■ The audit objectives.■ The audit methodology.
	The audit schedule.
	■ The sampling strategy.
	■ The documentation requirements.
	■ The communication plan.
	1.5. Document and Information Request:
	 Create a request list for all documentation required. This includes, but is not limited
	to:
	Policies and procedures.
	Network diagrams.System configuration documentation.
	System configuration documentation.Change management records.
	■ Incident response plans.
	Access control lists.
	■ Vulnerability scan reports.
	■ Penetration testing results.
2.	Data Gathering and Review

2.1. On-Site Visits and Interviews:	
Conduct on-site visits to observe the CDE a	· · · · · · · · · · · · · · · · · · ·
 Interview system administrators, network en 	gineers, application developers, and
security personnel.	
Opocument all interview findings.	
2.2. Document Review: Review all decumentation provided by the experience of the company of the compa	atit.
 Review all documentation provided by the enterprise of the components o	
practices.	o-date and accurately reflect the entity s
Assess the effectiveness of the entity's sect	urity controls.
2.3. System Configuration Review:	•
Review the configuration of all system comp	onents in the CDE.
 Verify that systems are configured according 	to PCI DSS requirements.
 Check for default passwords, unnecessary vulnerabilities. 	services, and other security
2.4. Network Security Assessment:	
 Review the network security architecture, in detection/prevention systems. 	cluding firewalls, routers, and intrusion
 Verify that network segmentation is impleme 	nted effectively.
 Review wireless network security controls. 	
 2.5. Vulnerability Scanning and Penetration Te 	
Review the results of vulnerability scans an	•
Verify that vulnerabilities are remediated in a	
Assess the effectiveness of the entity's vulne	erability management program.
 2.6. Cardholder Data Discovery: Utilize tools to locate all locations where car 	dholder data is stored processed or
transmitted.	difforder data is stored, processed, or
Verify that all identified locations are include	ed in the scope of the audit.
O Verify that any unnecessary storage of cardle	nolder data is removed.
2.7. Review of Cryptography:	
 Verify that strong cryptography is used to present the complex of th	otect cardholder data in transit and at
rest.	
Verify that key management procedures are	
 Verify that cryptographic algorithms and key requirements. 	lengths are compliant with PCI D55
2.8. Review of Change Management:	
Review the entity's change management pro	ocedures
Verify that changes to the CDE are properly	
 Verify that changes are tested and implement 	
2.9. Review of Incident Response:	
Review the entity's incident response plan.	
Verify that the plan is up-to-date and address	
Verify that incident response procedures are	
2.10. Review of Logical and Physical access of the CDE is restricted to	
 Verify that access to the CDE is restricted to Verify that access control procedures are in 	•
Review physical security controls, such as a	-
Treview physical security controls, such as a	occas pauges, sui veillance cameras,

and alarm systems.

 2.11. Review of Security Awareness Training: Verify that all personnel involved in the CDE receive regular security awareness
training.
O Verify that training covers PCI DSS requirements and the entity's security policies.
2.12. Review of Third-Party Service Providers: Norify that third party considers are DCLDSS compliant.
Verify that third-party service providers are PCI DSS compliant.Review contracts and service level agreements.
Review the third party providers Attestation of Compliance(AOC).
2.13. Review of Logging and Monitoring:
 Verify that system logs are collected and monitored.
 Verify that security events are investigated and resolved.
Verify that intrusion detection/prevention systems are configured correctly.
2.14. Review of Timely remediation of vulnerabilities: Norify that the antity is addressing vulnerabilities in a timely response.
 Verify that the entity is addressing vulnerabilities in a timely manner. Verify that a process is in place to track and remediate vulnerabilities.
3. Testing and Validation
3.1. Sample Testing:
 Conduct sample testing of security controls to verify their effectiveness.
 Test access controls, network security controls, and application security controls.
3.2. Evidence Collection:
Collect evidence to support audit findings.
Document all test results and observations. Obtain percentages log files, and configuration files as needed.
 Obtain screenshots, log files, and configuration files as needed. 3.3. Validation of Compensating Controls:
 If compensating controls are used, verify that they meet PCI DSS requirements.
Ensure that they are documented and properly implemented.
4. Reporting and Remediation
4.1. Audit Findings Documentation:
Obscument all audit findings in a clear and concise manner.
Identify the specific PCI DSS requirements that are not met.Provide recommendations for remediation.
4.2. Report of Compliance (ROC) or Self-Assessment Questionnaire (SAQ)
Completion:
Complete the ROC or SAQ, as applicable.
Ensure that the report is accurate and complete.
 Provide all required supporting documentation.
• 4.3. Remediation Planning:
Work with the entity to develop a remediation plan.
Establish timelines for remediation activities.Monitor the progress of remediation.
4.4. Final Report Submission:
Submit the final audit report to the entity and the acquiring bank or payment brand,
as required.
 Retain all audit documentation for the required retention period.
• 4.5. Follow-Up Reviews:
Conduct follow-up reviews to verify that remediation activities have been
completed. O Verify that the entity maintains ongoing PCI DSS compliance.

Key Considerations for PCI DSS v4.0.1:

- Targeted Risk Analysis (TRA): Ensure that the entity conducts thorough TRAs for all requirements.
- Customized Approach: Ensure that the audit is customized to the entity's specific environment.
- Evolving Technologies: Stay up-to-date on evolving technologies and their impact on
 PCI DSS compliance.
- **Accountability:** Verify that roles and responsibilities are clearly defined.
- **Accuracy:** Verify that all documentation is accurate and up-to-date.
- **Documentation:** Ensure that all documentation is maintained according to PCI DSS requirements.

Continuous Monitoring: Verify that the entity has continuous monitoring in place.

Authentication: Verify that strong multi-factor authentication is being used. **Password Complexity:** Verify that strong password complexity is being used.

Service Provider Management: Verify that service providers are being managed appropriately.