

# Cloud IT Infrastructure Audit Checklist

\*This is a general checklist, and specific sections may need to be adapted based on your specific cloud infrastructure and security requirements.



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#### Cloud Services and Providers

Service Model
☐ Verify the cloud service model used (laaS, PaaS SaaS) aligns with organizational needs.
Assess the security posture and compliance certifications of the cloud provider.
Deployment Model
Identify the cloud deployment model (public, private, hybrid).
Review the contract terms regarding security, data ownership, and audit rights.
Service Level Agreements (SLAs)
☐ Verify SLAs meet performance, uptime, and availability requirements.
Assess disaster recovery and incident response procedures outlined in SLAs.

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## Identity and Access Management (IAM)

Access Controls
Evaluate IAM policies and access controls for cloud resources.
Verify the principle of least privilege is enforced for user access.
Multi-Factor Authentication (MFA)
Confirm MFA is enabled for all user accounts with access to cloud resources.
$oxedsymbol{\square}$ Assess the strength and complexity requirements for cloud account passwords.
User Provisioning and Deactivation
Review processes for user provisioning, access control changes, and deactivation upon termination.
Uverify automated workflows are in place for user lifecycle management.





#### Resource Management

Inventory and Visibility
Onfirm a comprehensive inventory of all cloud resources is maintained.
Assess the use of cloud tagging for resource identification and cost allocation.
Resource Utilization
Evaluate cloud resource utilization to identify potential optimization opportunities.
Review processes for right-sizing cloud resources to avoid unnecessary costs.
Cost Management
Verify cloud cost monitoring and budgeting practices are implemented.
Assess cost allocation and chargeback models for cloud resources used by different departments.





### Data Security and Encryption

Data at Rest Encryption
Confirm data at rest is encrypted using industry- standard encryption algorithms.
Assess key management practices for encryption keys used in the cloud environment.
Data in Transit Encryption
Verify data in transit between cloud resources and on/off-premises locations is encrypted.
Review secure transport protocols (HTTPS, SSH) used for data transfer.



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### Logging and Monitoring

Cloud Logging
Verify comprehensive logging for all cloud resources and user activities is enabled.
Assess log retention policies and procedures for secure log storage and analysis.
Security Monitoring
Confirm continuous monitoring for suspicious activities and potential security threats.
Evaluate integration of cloud security monitoring tools with existing security information and event management (SIEM) systems.
Alerting and Notification
☐ Verify timely alerts are configured for security incidents, resource anomalies, and performance issues.
Assess escalation procedures and responsibilities for responding to security alerts.

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### Vulnerability Management

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## Disaster Recovery and Business Continuity

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Backup and Recovery	
Verify backups of critical data a resources are performed regularly.	nd cloud
Assess backup retention policie for offsite data storage and retrieva	-
Disaster Recovery Plan	
Confirm a documented disaster exists for the cloud environment.	recovery plan
Assess testing and validation procedures for the disaster recovery plan to ensure effectiveness.	
<b>Business Continuity</b>	
Evaluate the impact of potential on critical business processes.	cloud outages
Assess business continuity planessential operations during cloud so disruptions.	
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### Compliance

Regulatory Requirements
Identify relevant industry regulations and compliance requirements applicable to cloud data.
Assess controls and procedures implemented to ensure compliance with data privacy regulations.
Audit Logging
Verify audit logging is enabled for all cloud resources and user activities relevant to compliance.
Assess procedures for retaining and presenting audit logs for regulatory compliance purposes.



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