VDI Usage and Security Policy

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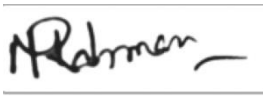
C. Author Information

Prepared By		
Name	**Designation**	**Signature**
Md. Sazzad Munir	Head of Quality & Compliance	
Reviewed By		
Name	**Designation**	**Signature**
Mizanur Rahman	CTO	
Approved By		
Name	**Designation**	**Signature**
Raisul Kabir	CEO	

D. Document History

Version No	Revision Date	Approval Date	A/M/ D/N	Description of Change	Document Author	Approved By
1.0	18-Dec-2024	24-Dec-2024	N	First release	Head of Q&C	CEO

* A= Added, M= Modified, D= Deleted, N= New Published

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1 Purpose

To establish best practices for the secure use of Virtual Desktop Infrastructure (VDI) to safeguard digital assets, ensure compliance with security standards, and provide a secure work environment for employees.

2 Scope

This policy applies to all employees, contractors accessing clients and company resources through VDI.

3 Responsibilities

- **IT Department**: Manage VDI configurations, implement security measures, monitor for compliance, and provide user training.
- **Users**: Follow access and usage guidelines, report security incidents, and maintain the confidentiality of credentials.

4 Provider-Specific Guidelines

4.1 VMware Horizon

- **Data Security**:
  - Use VMware NSX for micro-segmentation to isolate sensitive workloads.
  - Encrypt VDI traffic using VMware Unified Access Gateway (TLS/SSL).
- **Compliance**:
  - Enable vSphere Trust Authority to ensure workload integrity and compliance with standards like HIPAA and GDPR.
  - Monitor logs with VMware Aria Operations for Logs for compliance reporting.

4.2 Citrix Virtual Apps and Desktops

- **Data Security**:
  - Enable Secure Workspace Access to protect against unauthorized data exfiltration.
  - Use Citrix Analytics for Security to detect and prevent anomalies like unauthorized file sharing.
- **Compliance**:
  - Configure Citrix Cloud services to meet SOC 2, ISO 27001, and GDPR compliance.
  - Enable Citrix Content Collaboration for secure file handling and encrypted sharing.

4.3 Microsoft Azure Virtual Desktop (AVD)

- **Data Security**:
  - Enable Azure Defender for Cloud to monitor and protect VDI resources.
  - Restrict access using Conditional Access policies and Microsoft Defender for Identity.
- **Compliance**:
  - Leverage Azure Policy to enforce compliance with HIPAA, FedRAMP, and ISO 27001.
  - Store sensitive data in Azure regions that align with data sovereignty requirements.

4.4 AWS WorkSpaces

- **Data Security**:
  - Enforce encryption at rest using AWS KMS and in-transit using SSL/TLS.
  - Implement IAM roles and policies to enforce least privilege access.
- **Compliance**:
  - Utilize AWS Artifact to generate compliance reports for PCI DSS, SOC 2, or HIPAA.
  - Monitor with AWS CloudTrail and Amazon GuardDuty for real-time compliance insights.

5 Common Security Practices

5.1 Access Control

- Enforce multi-factor authentication (MFA) for all VDI logins.
- Implement role-based access control (RBAC) to limit access to resources based on job roles.
- Conduct periodic reviews of user access rights.

5.2 Security Configuration

- Use encrypted communication protocols (e.g., TLS/SSL) for VDI sessions.
- Disable copy-paste and USB redirection unless explicitly required and approved.
- Enable screen locking after a period of inactivity.
- Restrict installation of unauthorized software on virtual desktops.

5.3 Endpoint Security

- Ensure client devices accessing VDI meet minimum security requirements, including up-to-date antivirus and firewalls.
- Regularly patch and update VDI client software.

5.4 Data Protection

- Enforce data encryption at rest and in transit using provider-specific encryption mechanisms.
- Store sensitive files in centralized, secure locations within the VDI environment.
- Enable automated backups for critical data.
- Prevent file transfers from virtual desktops to local devices unless explicitly authorized.

5.5 Monitoring and Auditing

- Log all user activities and administrative actions within the VDI.
- Regularly audit VDI logs for anomalies or unauthorized access.
- Implement real-time alerts for potential security threats.

5.6 Incident Response

- Employees must report the incident to the IT team (it@brainstation-23.com), line manager and SBU/Department head immediately.
- Fill out the Incident reporting form: https://forms.office.com/r/6aXPjTxvQA

- .Temporarily revoke access for users involved in a suspected security breach.

5.7 Training and Awareness

- Conduct mandatory security training on VDI best practices before starting work in VDI.
- Provide ongoing updates about emerging threats and prevention techniques.

6 Compliance and Enforcement

- Non-compliance with this policy may result in disciplinary action, including termination of VDI access privileges.
- Regularly review and update this policy to align with evolving security threats and business needs.

7 Approval and Review

- This policy is subject to approval by the Information Security Team and will be reviewed annually or as needed.