

ELC (Estée Lauder Companies)

Cloud Security Policy Standards & Control V2.0

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1.0 Policy Statement

In accordance with the ELC Global Information Risk & Security, Cloud Security Standard and Control Document highlights the native cloud security policies and controls that Estee Lauder Companies, Inc. (ELC) should maintain and uphold within its Azure environment.

2.0 Purpose and Scope

The purpose of this standard is to document the native Cloud security Control standards in accordance with the Microsoft cloud security Benchmarks to ensure ELC Azure resources are protected from misconfigurations, data breaches, lack of visibility, and exposure to the public. This standard serves as a general security guideline for expectations and industry best practices.

This standard applies to Estee Lauder Companies Inc. (the “Company”) and its subsidiaries throughout the world (collectively, with the Company, “ELC”). The requirements presented herein must be applied to all systems that support financial reporting or financial data.

3.0 Standards

The following standards align with the Microsoft Cloud Security Benchmarks and are expected to be maintained and upheld by the ELC native cloud environment.

- Microsoft Security Benchmark V1.0 2023
- NIST SP 800-53 r4
- NIST SP 800-53 Rev. 5: Security and Privacy Controls for Information Systems and Organizations
- ISO/IEC 27001:2022: Information Security Controls
- ISO/IEC 27002:2022 Information Security Standard.
- Azure Security Policy standard control document v2.1.0
- CIS Controls v7.1, CIS Controls V8
- PCI-DSS v3.2.1

4.0 Networking

The Networking section defines the security control and standards for maintaining the security of ELC Information Technology networks to protect them from unauthorized access, restricting the vulnerable ports and internet exposed services, permitting the approved ports. The following industry good-practice frameworks, standards and guidelines were referenced from the standard section documents.

Section 3.2 of Azure Security Policies defines NSG native control under “**ELC Azure Security Policy Standards & Control Document** of Azure Security Benchmark v2.1.0.”

4.0.1 Subnets should be associated with a Network Security Group

Control ID	ELC-CS-NS-001
Control Definition	All the ELC Subnets Should be associated with an NSG
Control Domain	Microsoft Cloud Security Benchmark V1.0 - NS-1, CIS Controls v7.1 ID(s) - 14.1, NIST SP800-53 r4 ID(s) - Sec-7, PCI-DSS v3.2.1 ID(s) - 1.1, 1.2, 1.3, ELC-AZS-NS-3.2.2 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Network_Security_Group_Reference_Document_V1.0
Severity	High

4.0.2 All network ports should be restricted to network security groups associated with virtual machine.

Control ID	ELC-CS-NS-002
Control Definition	All the Network Ports Should be restricted to network security groups associated with the ELC Virtual Machines.
Control Domain	Microsoft Cloud Security Benchmark V1.0 - NS-3, CIS Controls V7.1 (ID'S) - 12.4, CIS Controls V8 (ID'S) - 4.4, NIST SP800-53 r4 ID's - SC-7, PCI-DSS V3.2.1 - 1.1, 1.2, 1.3, ELC-AZS-NS-3.2.3 - Azure Security Policy Standard Document
Recommendation & Procedure	Deploy a security system to perform advanced filtering on network traffic to and from external networks. Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Network_Security_Group_Reference_Document_V1.0
Severity	High

4.0.3 All Internet published services (IaaS/PaaS) should be restricted and be configured with a default-deny policy.

Control ID	ELC-CS-NS-003
Control Definition	All public network access on the Azure SQL database should be disabled in ELC environment.
Control Domain	Microsoft Cloud Security Benchmark V1.0 - NS-1, CIS Controls v7.1 ID(s) - 12.3, NIST SP800-53 r4 ID(s) - AC-4, PCI-DSS v3.2.1 ID(s) - 1.1, 1.2, 1.3, ELC-AZS-NS-3.2.5 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Network_Security_Group_Reference_Document_V1.0
Severity	Medium

4.0.4 Web Application Firewall (WAF) should be deployed for all external published web services.

Control ID	ELC-CS-NS-004
Control Definition	Web Application Firewall should be deployed for all external published web services. Sequence should be used for ELC environment. Azure WAF/ App Gateway can be used by security exception
Control Domain	Microsoft Cloud Security Benchmark V1.0 - NS-6, CIS Controls v7.1 ID(s) - 12.9, NIST SP800-53 r4 ID(s) - Sec-7, PCI-DSS v3.2.1 ID(s) - 1.1, 1.2, 1.3, ELC-AZS-NS-3.2.6 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Network_Security_Group_Reference_Document_V1.0
Severity	Medium

4.0.5 Network Watcher should be enabled.

Control ID	ELC-CS-NS-005
Control Definition	Network Watcher is a regional service that enables you to monitor and diagnose conditions at a network scenario level in, to, and from Azure.
Control Domain	Microsoft Cloud Security Benchmark V1.0 - NS-1, NS-3, CIS Controls V7.1 (ID'S) - 14.2, CIS Controls V8 (ID'S) - 13.12, NIST SP800-53 r4 (ID'S) - SC-2, PCI-DSS V3.2.1 - 1.1,1.2, 1.3, ELC-AZS-NS-3.2.7 - Azure Security Policy Standard Document
Recommendation & Procedure	For specific, well-defined applications (such as a 3-tier app), this can be a highly secure "deny by default, permit by exception" approach by restricting the ports, protocols, source, and destination IPs of the network traffic. Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Network_Security_Group_Reference_Document_V1.0
Severity	Medium

4.0.6 Enforce least access policies between network segments.

Control ID	ELC-CS-NS-006
Control Definition	Perform the Traffic Between Network Segments in the ELC environment. Can be enforced by combination of NSG/ ASG/ NVA Policies.
Control Domain	Microsoft Cloud Security Benchmark V1.0 - NS-1, CIS Control v7.1 (ID'S) - 9.4, CIS Control V8 (ID'S) - 13.4, NIST SP800-53 r4 (ID'S) - AC-4 PCI-DSS V3.2.1 - 1.1, 1.2, 1.3
Recommendation & Procedure	To enhance your enterprise segmentation strategy, restrict or monitor traffic between internal resources using network controls. Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Network_Security_Group_Reference_Document_V1.0
Severity	High

4.0.7 All Internet Proposed Published Services are to go through an Architecture Assessment

Control ID	ELC-CS-NS-007
Control Definition	Nothing to be allowed, only approved services are to be allowed, and it should go through the security architecture assessment.
Control Domain	Microsoft Cloud Security Benchmark V1.0 - NS-1, CIS Control v7.1 (ID'S) - 9.4, CIS Control V8 (ID'S) - 13.4, NIST SP800-53 r4 (ID'S) - AC-4, PCI-DSS V3.2.1 - 1.1, 1.2, 1.3
Recommendation & Procedure	To enhance your enterprise segmentation strategy, restrict or monitor traffic between internal resources using network controls. Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Network_Security_Group_Reference_Document_V1.0
Severity	High

4.0.8 NVA bypass subnets ASG's should be applied through restrict inbound access.

Control ID	ELC-CS-NS-008
Control Definition	NVA bypass subnets ASG's should be applied through restrict inbound access.
Control Domain	Microsoft Cloud Security Benchmark V1.0 - NS-1, CIS Controls V7.1 (ID'S) - 9.4, CIS Controls V8 (ID'S) - 13.4, NIST SP800-53 r4 (ID'S) - SC-2, PCI-DSS V3.2.1 - 1.1,1.2, 1.3.
Recommendation & Procedure	To enhance your enterprise segmentation strategy, restrict or monitor traffic between internal resources using network controls. Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Network_Security_Group_Reference_Document_V1.0
Severity	High

4.0.9 All NVA Routed communication should be restricted VIA least network access Policies.

Control ID	ELC-CS-NS-009
Control Definition	All NVA Routed communication should be restricted VIA least network access Policies enforced by NVA/ Palo Network Firewalls.
Control Domain	Microsoft Cloud Security Benchmark V1.0 - NS-1, CIS Controls V7.1 (ID'S) - 14.2, CIS Controls V8 (ID'S) - 4.4, NIST SP800-53 r4 (ID'S) - SC-7, PCI-DSS V3.2.1 - 1.1,1.2, 1.3
Recommendation & Procedure	To enhance your enterprise segmentation strategy, restrict or monitor traffic between internal resources using network controls. Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Network_Security_Group_Reference_Document_V1.0
Severity	High

5.0 Storage

The storage section defines the security control and standards for maintaining the security of ELC Information Technology to protect them from unauthorized access, modification, disclosure, and encrypt sensitive information at rest. The following industry good-practice frameworks, standards and guidelines were referenced from the standard section documents.

Section 3.4 of Azure Security Policies defines **Azure Storage** native control under “**ELC Azure Security Policy Standards & Control Document of Azure Security Benchmark v2.1.0.**”

5.0.1 *Encrypt Sensitive Information at Rest*

Encrypting data at rest secures files and documents, ensuring that only those with the key can access them. The files are useless to anyone else. This prevents data leakage and unauthorized access.

Control ID	ELC-CS-SA-001
Control Definition	Encrypt Sensitive Information at Rest – As per the data encryption document i.e., elc-ecr-013-data-encryption-procedure , data at rest/transit should be encrypted.
Control Domain	MCSB – DP-4 CIS Controls V7.1 (ID'S) – 14.8 CIS Controls V8 (ID'S) – 3.11, NISR SP800-53 r4 (ID'S) – SC-28, PCI-DSS V3.2.1 – 3.4,3.5
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, (6.1 Reference Links attached file 3.1) _ ELC_Cloud_Security_Azure_Storage_Reference_Document_V 1.0 and follow the ELC data encryption procedure document ELC-ECR-013 Data Encryption Procedure (elcompanies.com)
Severity	High

5.0.2 All Storage accounts should be configured with service endpoint or private endpoints.

Control ID	ELC-CS-SA-002
Control Definition	Private endpoints connect your virtual network to Azure services without a public IP address at the source or destination. By mapping private endpoints to your storage account, you can reduce data leakage risks. Storage accounts use a large volume should configure Service endpoints.
Control Domain	ASB V2 NS-2, NS-3 Microsoft cloud security benchmark NS-2 CIS 3.10
Recommendation & Procedure	<p>Configuring a private link connection for an Azure Storage account involves creating an Azure Private Endpoint. This allows you to securely access your storage account privately within your virtual network. Use Azure Private Link to enable private access to Azure services from your virtual networks, without crossing the internet. In situations where Azure Private Link is not yet available, use Azure Virtual Network service endpoints. Azure Virtual Network service endpoints provide secure access to services via an optimized route over the Azure backbone network. Private access is an additional defense in depth measure in addition to authentication and traffic security offered by Azure services.</p> <p>Please refer to the Best Practice Document to proceed further, (for service endpoint 7.1, Private Endpoint 7.2 Reference Links) _ ELC_Cloud_Security_Azure_Storage_Reference_Document_V 1.0</p>
Severity	High

5.0.3 *Encrypt Data at rest by leveraging customer managed Keys.*

Control ID	ELC-CS-SA-003
Control Definition	Secure your blob and file storage account with greater flexibility using customer-managed keys. When you specify a customer-managed key, that key is used to protect and control access to the key that encrypts your data. Using customer-managed keys provides additional capabilities to control rotation of the key encryption key or cryptographically erase data.
Control Domain	CIS 1.4.0 – 3.9 Azure Security Benchmark V3 DP-5 CIS Controls v7.1 ID(s) – 14.8 CIS Controls v8 ID(s) – 3.11 NIST SP800-53 r4 ID(s) - SC-12, SC-28 PCI-DSS v3.2.1 ID(s) – 3.4. 3.5 3.6
Recommendation & Procedure	Customer-managed keys offer greater flexibility to manage access controls. Please refer to the Best Practice Document to proceed further, (5.1) _ ELC_Cloud_Security_Azure_Storage_Reference_Document_V 1.0
Severity	High

5.0.4 *Require Custom Sensitive tags for storage Account resources.*

Control ID	ELC-CS-SA-004
Control Definition	Sensitive tags, use to organize Azure storage account. Which help us to identify data classification and apply the required azure policy's Ex – (Name/value pairs) (Sensitive - Restrict Network Access), Double encryption for data at rest, Use customer-managed key for encryption.
Control Domain	Custom recommendation for a better security.
Recommendation & Procedure	Improving the application owner's experience with the better security for Storage account. Please refer to the Best Practice Document to proceed further, (3.0) ELC_Cloud_Security_Azure_Storage_Reference_Document_V 1.0
Severity	High

5.0.5 Storage accounts that are used to host sensitive data should leverage double encryption.

Control ID	ELC-CS-SA-005
Control Definition	Double encryption of Azure Storage data protects against a scenario where one of the encryption algorithms or keys may be compromised. In this scenario, the additional layer of encryption continues to protect your data. Enable infrastructure encryption for higher level of assurance that the data is secure. When infrastructure encryption is enabled, data in a storage account is encrypted twice.
Control Domain	NIST SP 800-53 Rev. 5 – SC-12 FedRAMP_Moderate_R4 – SC-12
Recommendation & Procedure	Customers who require higher levels of assurance that their data is secure can also enable 256-bit AES encryption at the Azure Storage infrastructure level for double encryption. Please refer to the Best Practice Document to proceed further,(5.0) ELC_Cloud_Security_Azure_Storage_Reference_Document_V1.0_
Severity	High

5.0.6 Secure Web transfer should be enabled with TLS 1.2 & Higher

Control ID	ELC-CS-SA-006
Control Definition	Configure a minimum TLS version for secure communication between the client application and the storage account. To minimize security risk, the recommended minimum TLS version is the latest released version, which is currently TLS 1.2.
Control Domain	CIS Microsoft Azure Foundations Benchmark 1.4.0 - 3.1 Microsoft Cloud security benchmark - DP-3 NIST SP 800-171 R2 - 3.13.8 NIST SP 800-53 Rev. 4 - SC-8, SC-8(1) NIST SP 800-53 Rev. 5 - SC-8, SC-8(1)

Recommendation & Procedure	<p>Azure Storage currently supports three versions of the TLS protocol: 1.0, 1.1, and 1.2. Azure Storage uses TLS 1.2 on public HTTPS endpoints, but TLS 1.0 and TLS 1.1 are still supported for backward compatibility.</p> <p>Please refer to the Best Practice Document to proceed further, (6.1 Reference Links) _ ELC_Cloud_Security_Azure_Storage_Reference_Document_V1.0</p>
Severity	High

5.0.7 All access from the internet should be denied by default on storage accounts.

Control ID	ELC-CS-SA-007
Control Definition	<p>Network access to storage accounts should be restricted. Configure network rules so only applications from allowed networks can access the storage account. To allow connections from specific internet or on-premises clients, access can be granted to traffic from specific Azure virtual networks or to public internet IP address ranges.</p>
Control Domain	<p>CIS Microsoft Azure Foundations Benchmark 1.3.0 - 3.6 CIS Microsoft Azure Foundations Benchmark 1.4.0 - 3.6 CIS Microsoft Azure Foundations Benchmark 2.0.0 - 3.8 FedRAMP High - AC-4, SC-7, SC-7(3) FedRAMP Moderate - AC-4, SC-7, SC-7(3) Microsoft Cloud security benchmark - NS-2 NIST SP 800-171 R2 - 3.1.3, 3.13.1, 3.13.2, 3.13.6 NIST SP 800-53 Rev. 4 - AC-4 SC-28, SC-28(1) NIST SP 800-53 Rev. 5 - AC-4 SC-28, SC-28(1)</p>
Recommendation & Procedure	<p>Ensure default network access rule for Storage Accounts is set to deny.</p> <p>Please refer to the Best Practice Document to proceed further, (1.0) ELC_Cloud_Security_Azure_Storage_Reference_Document_V1.0</p>
Severity	High

6.0 Virtual Machine

The Virtual Machine section defines the security control and standards for maintaining the security of ELC Information Technology to protect them from unauthorized access, secure the VM's with the below mentioned controls from internal and external attack factors. The following industry good-practice frameworks, standards and guidelines were referenced from the standard section documents.

Section 3.6 of Azure Security defines the **Azure Virtual Machine** native control under “**ELC Azure Security Policy Standards & Control Document of Azure Security Benchmark v2.1.0.**”

6.0.1 All Data in transit should be encrypted.

Control ID	ELC-CS-VM-001
Control Definition	Protect the data in transit against 'out of band' attacks (such as traffic capture) using encryption to ensure that attackers cannot easily read or modify the data. For remote management of VMs, use SSH (for Linux) or RDP/TLS (for Windows) instead of an unencrypted protocol.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – DP-3 CIS Controls V7.1 (ID'S) – 14.4 CIS Controls V8 (ID'S) – 3.10, NIST SP800-53 r4 (ID'S) – SC-8, PCI-DSS V3.2.1 – 3.5,3.6,4.1
Recommendation & Procedure	Please refer to the Data Encryption procedure document to proceed further: https://myelc.elcompanies.com/sites/global-it-community/document/250058/ELC-ECR-013-Data-Encryption-Procedure ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.2 Leverage sanctioned managed hosts to perform operational/ privileged functions.

Control ID	ELC-CS-VM-002
Control Definition	Managed hosts like Jump servers is Secured, isolated workstations are critically important for the security of sensitive roles like administrator, developer, and critical service operator.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PA-6 CIS Controls v7.1 ID(s) – 4.6,11.6,12.12, CIS Controls V8 (ID’S) – 12.8,13.5 NIST SP800-53 r4 ID(s) – AC-2, SC-7, SC-2 PCI-DSS v3.2.1 ID(s) - 1.2, 6.4
Recommendation & Procedure	Use Privileged Access Workstations for Administrative tasks. ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.3 Private link to external 3rd party is DENIED by default.

Control ID	ELC-CS-VM-003
Control Definition	Secure cloud services by establishing a private access point for the resources. You should also disable or restrict access to the public network when possible. Any exception to this control should be reviewed and go through approval process.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – NS-2 CIS Controls v7.1 ID(s) – 14.1 CIS Controls V8 (ID’S) – 3.12,4.4, NIST SP800-53 r4 ID(s) – AC-4, SC-7, SC-2 PCI-DSS v3.2.1 ID(s) - 1.1,1.2, 1.3
Recommendation & Procedure	Secure cloud native services with network controls ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.4 Backup should be enabled for Virtual Machines

Control ID	ELC-CS-VM-004
Control Definition	Ensure protection of your Virtual Machines by enabling Backup. Backup is a secure and cost-effective data protection solution.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – BR-1 CIS Controls v7.1 ID(s) – 10.1 CIS Controls V8 (ID'S) – 11.2 NIST SP800-53 r4 ID(s) – CP-2, CP-4, CP-9 PCI-DSS v3.2.1 ID(s) – 3.4 ELC-AZS-VM-3.6.4 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.5 All privileged access for local & domain accounts should go through the ELC sanctioned privileged access management solution.

Control ID	ELC-CS-VM-005
Control Definition	All privileged access for local & domain accounts should go through the ELC sanctioned privileged access management solution.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – IM-6 CIS Controls v7.1 ID(s) – 4.2,4.5,12.11,16.3 CIS Controls V8 (ID'S) – 6.3,6.4 NIST SP800-53 r4 ID(s) – AC-2, AC-3, IA-2, IA-5, IA-8 PCI-DSS v3.2.1 ID(s) – 7.2,8.2,8.3,8.4 ELC-AZS-VM-3.6.11 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, https://myelc.elcompanies.com/sites/global-it-community/document/250052/ELC-ECR-007-Access-Control-

	Procedure ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.6 Authentication to Linux machines should require SSH keys.

Control ID	ELC-CS-VM-006
Control Definition	Machines are non-compliant if Linux machines that have accounts without SSH keys. All user accounts that are used for remote access should be accessed via SSH keys.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – IM-6 CIS Controls v7.1 ID(s) – 4.2,4.5,12.11,16.3 CIS Controls V8 (ID’S) – 6.3,6.4 NIST SP800-53 r4 ID(s) – AC-2, AC-3, IA-2, IA-5, IA-8 PCI-DSS v3.2.1 ID(s) – 7.2,8.2,8.3,8.4
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.7 Boot Diagnostics should be enabled on virtual machines.

Control ID	ELC-CS-VM-007
Control Definition	Boot diagnostics should be enabled on all VM’s, and logs should be stored on managed storage accounts.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV-4 CIS Controls v7.1 ID(s) – 5.1,5.5,11.3 CIS Controls V8 (ID’S) – 4.1 NIST SP800-53 r4 ID(s) – CM-2, CM-6 PCI-DSS v3.2.1 ID(s) – 2.2
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.8 A managed identity should be enabled for Virtual machines.

Control ID	ELC-CS-VM-008
Control Definition	Resources managed by Auto manage should have a managed identity. This policy adds a user-assigned managed identity to virtual machines hosted in Azure that are supported by Guest Configuration
Control Domain	Microsoft Cloud Security Benchmark V1.0 – IM-1 CIS Controls v7.1 ID(s) – 16.1,16.2 CIS Controls V8 (ID'S) – 6.7,12.5 NIST SP800-53 r4 ID(s) – AC-2, AC-3, IA-2, IA-8 PCI-DSS v3.2.1 ID(s) – 7.2,8.3
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.9 Ensure that 'OS disks' are encrypted.

Control ID	ELC-CS-VM-009
Control Definition	Ensure that OS disks (boot volumes) are encrypted, where possible.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – DP-4 CIS Controls v7.1 ID(s) – 14.8 CIS Controls V8 (ID'S) – 3.11 NIST SP800-53 r4 ID(s) – SC-28 PCI-DSS v3.2.1 ID(s) – 3.4,3.5
Recommendation & Procedure	Enable data at rest encryption by default. ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.10 *Ensure that 'Data disks' are encrypted.*

Control ID	ELC-CS-VM-010
Control Definition	Ensure that data disks (non-boot volumes) are encrypted, where possible.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – DP-4 CIS Controls v7.1 ID(s) – 14.8 CIS Controls V8 (ID'S) – 3.11 NIST SP800-53 r4 ID(s) – SC-28 PCI-DSS v3.2.1 ID(s) – 3.4,3.5
Recommendation & Procedure	Enable data at rest encryption by default. ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.11 *Virtual Machines should be deployed with ELC Sanctioned Image.*

Control ID	ELC-CS-VM-011
Control Definition	Virtual Machines should be deployed with all the security agents and latest security updates and with all the security hardening guidelines.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV-5 CIS Controls v7.1 ID(s) – 3.1,3.3,3.6 CIS Controls V8 (ID'S) – 5.5,7.1,7.5,7.6, NIST SP800-53 r4 ID(s) – RA-3, RA-5 PCI-DSS v3.2.1 ID(s) – 6.1,6.2,6.6,11.2 ELC-AZS-VM-3.6.22 - Azure Security Policy Standard Document
Recommendation & Procedure	Refer to ELC Standards for Sanctioned Images. ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0

	Document_V1.0
Severity	High

6.0.12 Virtual machines should be migrated to new Azure Resource Manager resources.

Control ID	ELC-CS-VM-012
Control Definition	Use new Azure info Resource Manager for your virtual machines to provide security enhancements such as: stronger access control (RBAC), better auditing, Azure Resource Manager based deployment and governance, access to managed identities, access to key vault for secrets, Azure AD-based authentication and support for tags and resource groups for easier security management
Control Domain	Microsoft Cloud Security Benchmark V1.0 – AM-2 CIS Controls v7.1 ID(s) – 2.7,2.8,2.9,9.2 CIS Controls V8 (ID'S) – 2.5,2.6,2.7,4.8 NIST SP800-53 r4 ID(s) – CM-8, PM-5 PCI-DSS v3.2.1 ID(s) – 6.3 ELC-AZS-VM-3.6.20 - Azure Security Policy Standard Document
Recommendation & Procedure	Use only approved services. ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

6.0.13 All Virtual Machines should be under Frequently Managed Update Schedule.

Control ID	ELC-CS-VM-013
Control Definition	Audit whether there are any missing system security updates and critical updates that should be installed to ensure that your Windows and Linux virtual machine are secure.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV-6 CIS Controls v7.1 ID(s) – 3.4,3.5,3.7 CIS Controls V8 (ID’S) – 7.2,7.3,7.4,7.7 NIST SP800-53 r4 ID(s) – RA-3, RA-5, SI-2 PCI-DSS v3.2.1 ID(s) – 6.1,6.2,6.5,11.2 ELC-AZS-VM-3.6.19 - Azure Security Policy Standard Document
Recommendation & Procedure	Rapidly and automatically remediate vulnerabilities. ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0
Severity	High

7.0 Logging and Monitoring

The Logging and Monitoring section defines the security control and standards for maintaining the security of ELC Information Technology to protect them from unauthorized access, modification, disclosure of Logs and monitoring the logs as per the standards and encrypt sensitive logging information at rest. The following industry good-practice frameworks, standards and guidelines were referenced from the standard section documents.

Section 3.5 of Azure Security Policies defines the **Logging and Monitoring** Native Control under “**ELC Azure Security Policy Standards & Control Document of Azure Security Benchmark v2.1.0.**”

7.0.1 Resource Activity log should be retained for at least one year. Azure activities logs are stored for at least 90 days in Azure and Control plane archived it on for one year.

Control ID	ELC-CS-LM-001
Control Definition	This policy audits the activity log if the retention is not set for 365 days or forever (retention days set to 0). Long time archiva stored in ELC enterprise Splunk or ELC sanctioned ECR monitoring solutions.
Control Domain	MCSB – LT-6 CIS Controls V7.1 (ID'S) – 6.4 CIS Controls V8 (ID'S) – 8.3, 8.10, NIST SP800-53 r4 (ID'S) – AU-11, PCI-DSS V3.2.1 – 10.5,10.7
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Monitoring_Reference_Document_V1.0 https://myelc.elcompanies.com/sites/global-it-community/document/250056/ELC-ECR-011-Logging-and-Monitoring-Procedure
Severity	High

7.0.2 Azure Monitor should collect activity logs from all regions.

Control ID	ELC-CS-LM-002
Control Definition	This policy audits the Azure Monitor log profile which does not export activities from all Azure supported regions including global. Long term should be stored in Splunk or ELC ECR sanctioned logging archival solution. Logging should be stored locally 90 days.
Control Domain	MCSB V1.0 - LT-5, CIS Controls v7.1 ID(s) – 6.5, 6.6, 6.7, 8.6. CIS Controls V8 (ID'S) – 8.9, 8.11, 13.1. NIST SP800-53 r4 ID(s) – AU-3, AU-6, AU-11. PCI-DSS v3.2.1 ID(s) – N/A
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Monitoring_Reference_Document_V1.0
Severity	High

7.0.3 Azure Monitor log profile should collect logs for categories 'write,' 'delete,' and 'action'.

Control ID	ELC-CS-LM-003
Control Definition	This policy ensures that a log profile collects logs for categories 'write,' 'delete,' and 'action'
Control Domain	MCSB V1.0 - LT-5, CIS Controls v7.1 ID(s) – 6.5, 6.6, 6.7, 8.6. CIS Controls V8 (ID'S) – 8.9, 8.11, 13.1. NIST SP800-53 r4 ID(s) – AU-3, AU-6, AU-11. PCI-DSS v3.2.1 ID(s) – N/A
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Monitoring_Reference_Document_V1.0

	t_V1.0
Severity	High

7.0.4 Storage account containing the container with activity logs must be encrypted with BYOK.

Control ID	ELC-CS-LM-004
Control Definition	<p>This policy audits if the Storage account containing the container with activity logs is encrypted with BYOK. The policy works only if the storage account lies on the same subscription as activity logs by design. More information on Azure Storage encryption at rest can be found here https://aka.ms/azurestoragebyok.</p> <p>Long term should be stored in Splunk or ELC ECR sanctioned logging archival solution. Logging should be stored locally 90 days.</p>
Control Domain	<p>MCSB V1.0 - DP-5, CIS Controls v7.1 ID(s) – 14.8. CIS Controls V8 (ID'S) – 3.11. NIST SP800-53 r4 ID(s) – SC-12, SC-18. PCI-DSS v3.2.1 ID(s) – 3.4, 3.5, 3.6.</p>
Recommendation & Procedure	<p>Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Monitoring_Reference_Document_V1.0</p>
Severity	High

7.0.5 Azure monitoring is replacing LA Agent. Azure monitoring agent should be installed on your virtual machine/virtual machine scale sets for Azure Security Center monitoring.

Control ID	ELC-CS-LM-005
Control Definition	<p>This policy audits any Windows/Linux virtual machines (VMs) if the Azure monitoring agent is not installed which Security Center uses to monitor for security vulnerabilities and threats.</p> <p>Relevant security logs are captured on ELC sanctioned log monitoring/archival solutions.</p>
Control Domain	<p>MCSB V1.0 - LT-1, CIS Controls v7.1 ID(s) – 6.7. CIS Controls V8 (ID'S) – 8.11. NIST SP800-53 r4 ID(s) – AU-3, AU-6, AU-12. PCI-DSS v3.2.1 ID(s) – N/A ELC-AZS-LM-3.5.1 - Azure Security Policy Standard Document</p>
Recommendation & Procedure	<p>Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Monitoring_Reference_Document_V1.0</p>
Severity	High

7.0.6 Resource logs in the IoT Hub should be enabled.

Control ID	ELC-CS-LM-006
Control Definition	<p>Audit enabling of resource logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised.</p>
Control Domain	<p>MCSB V1.0 - LT-1, CIS Controls v7.1 ID(s) – 6.7. CIS Controls V8 (ID'S) – 8.11. NIST SP800-53 r4 ID(s) – AU-3, AU-6, AU-12. PCI-DSS v3.2.1 ID(s) – N/A</p>

	ELC-AZS-LM-3.5.2 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Monitoring_Reference_Document_V1.0
Severity	High

7.0.7 Resource logs in Logic Apps should be enabled.

Control ID	ELC-CS-LM-007
Control Definition	Audit enabling of resource logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised.
Control Domain	MCSB V1.0 - LT-1, CIS Controls v7.1 ID(s) – 6.7. CIS Controls V8 (ID'S) – 8.11. NIST SP800-53 r4 ID(s) – AU-3, AU-6, AU-12. PCI-DSS v3.2.1 ID(s) – N/A
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Monitoring_Reference_Document_V1.0
Severity	High

7.0.8 Resource logs in Key Vault should be enabled.

Control ID	ELC-CS-LM-008
Control Definition	Audit enabling of resource logs. This enables you to recreate activity trails to use for investigation purposes when a security incident occurs or when your network is compromised.
Control Domain	MCSB V1.0 - LT-3, CIS Controls v7.1 ID(s) – 6.2, 6.3, 8.8. CIS Controls V8 (ID'S) – 8.2, 8.5, 8.12. NIST SP800-53 r4 ID(s) – AU-3, AU-6, AU-12, SI-4. PCI-DSS v3.2.1 ID(s) – 10.1, 10.2, 10.3.
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_Monitoring_Reference_Document_V1.0

Severity	High
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8.0 App Service

The App Service section defines the security control and standards for maintaining the security of ELC Information Technology Storage to protect them from unauthorized access, modification, disclosure, and encrypt sensitive data with the strong encryption standards. The following industry good-practice frameworks, standards and guidelines were referenced from the standard section documents.

Section 3.7 of Azure Security Policies defines the Azure App Services and Function Apps native control under **“ELC Azure Security Policy Standards & Control Document of Azure Security Benchmark v2.1.0.”**

8.0.1 App Service apps should use the latest TLS version.

Control ID	ELC-CS-AS-001
Control Definition	Periodically, newer versions are released for TLS either due to security flaws, include additional functionality, or enhance speed. Upgrade to the latest TLS version for App Service apps to take advantage of security fixes, if any, and/or new functionalities of the latest version.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – NS-8, DP-3 CIS Controls V7.1 (ID'S) – 9.2, 14.4 CIS Controls V8 (ID'S) – 4.4,4.8, 3.10 NIST SP800-53 r4 (ID'S) – CM-2, CM-6, CM-7, SC-8 PCI-DSS V3.2.1 – 4.1, A2.1, A2.2, A2.3, 3.5,3.6,4.1
Recommendation & Procedure	Detect and disable insecure services and protocols. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.2 Function apps should use the latest TLS version

Control ID	ELC-CS-AS-002
Control Definition	Periodically, newer versions are released for TLS either due to security flaws, include additional functionality, and enhance speed. Upgrade to the latest TLS version for Function apps to take advantage of security fixes, if any, and/or new functionalities of the latest version
Control Domain	Microsoft Cloud Security Benchmark V1.0 – NS-8, DP-3 CIS Controls V7.1 (ID'S) – 9.2, 14.4 CIS Controls V8 (ID'S) – 4.4,4.8, 3.10 NIST SP800-53 r4 (ID'S) – CM-2, CM-6, CM-7, SC-8 PCI-DSS V3.2.1 – 4.1, A2.1, A2.2, A2.3, 3.5,3.6,4.1
Recommendation & Procedure	Detect and disable insecure services and protocols. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.3 App Service apps should use managed identity

Control ID	ELC-CS-AS-003
Control Definition	Use a managed identity for enhanced authentication security
Control Domain	Microsoft Cloud Security Benchmark V1.0 – IM-3 CIS Controls v7.1 ID(s) – N/A CIS Controls V8 (ID'S) – N/A NIST SP800-53 r4 ID(s) – AC-2, AC-3, IA-4, IA-5, IA-9 PCI-DSS v3.2.1 ID(s) – N/A ELC-AZS-AS-3.7.2 - Azure Security Policy Standard Document
Recommendation & Procedure	Manage application identities securely and automatically.

	ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.4 *Function apps should use managed identity.*

Control ID	ELC-CS-AS-004
Control Definition	Use a managed identity for enhanced authentication security
Control Domain	Microsoft Cloud Security Benchmark V1.0 – IM-3 CIS Controls v7.1 ID(s) – N/A CIS Controls V8 (ID'S) – N/A NIST SP800-53 r4 ID(s) – AC-2, AC-3, IA-4, IA-5, IA-9 PCI-DSS v3.2.1 ID(s) – N/A
Recommendation & Procedure	Manage application identities securely and automatically. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.5 *App Service apps should only be accessible over HTTPS*

Control ID	ELC-CS-AS-005
Control Definition	Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks
Control Domain	Microsoft Cloud Security Benchmark V1.0 – DP-3 CIS Controls v7.1 ID(s) – 14.4 CIS Controls V8 (ID'S) – 3.10 NIST SP800-53 r4 ID(s) – SC-8 PCI-DSS v3.2.1 ID(s) – 3.5,3.6,4.1 ELC-AZS-AS-3.7.1 - Azure Security Policy Standard Document
Recommendation & Procedure	Encrypt sensitive data in transit. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.6 Function apps should only be accessible over HTTPS

Control ID	ELC-CS-AS-006
Control Definition	Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks
Control Domain	Microsoft Cloud Security Benchmark V1.0 – DP-3 CIS Controls v7.1 ID(s) – 14.4 CIS Controls V8 (ID'S) – 3.10 NIST SP800-53 r4 ID(s) – SC-8 PCI-DSS v3.2.1 ID(s) – 3.5,3.6,4.1
Recommendation & Procedure	Encrypt sensitive data in transit. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.7 App Service apps should require FTPS only

Control ID	ELC-CS-AS-007
Control Definition	Enable FTPS enforcement for enhanced security. if FTPS required should only restricted to ELC internal networks
Control Domain	Microsoft Cloud Security Benchmark V1.0 – DP-3 CIS Controls v7.1 ID(s) – 14.4 CIS Controls V8 (ID'S) – 3.10 NIST SP800-53 r4 ID(s) – SC-8 PCI-DSS v3.2.1 ID(s) – 3.5,3.6,4.1
Recommendation & Procedure	Encrypt sensitive data in transit. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.8 Function apps should require FTPS only

Control ID	ELC-CS-AS-008
Control Definition	Enable FTPS enforcement for enhanced security. If FTPS required should only restricted to ELC internal networks
Control Domain	Microsoft Cloud Security Benchmark V1.0 – DP-3 CIS Controls v7.1 ID(s) – 14.4 CIS Controls V8 (ID’S) – 3.10 NIST SP800-53 r4 ID(s) – SC-8 PCI-DSS v3.2.1 ID(s) – 3.5,3.6,4.1
Recommendation & Procedure	Encrypt sensitive data in transit. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.9 App Service apps should have resource logs enabled

Control ID	ELC-CS-AM-009
Control Definition	Audit enabling of resource logs on the app. This enables you to recreate activity trails for investigation purposes if a security incident occurs or your network is compromised.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – LT-3 CIS Controls v7.1 ID(s) – 6.2,6.3,8.8 CIS Controls V8 (ID’S) – 8.2,8.5,8.12 NIST SP800-53 r4 ID(s) – AU-3, AU-6, AU-12, SI-4 PCI-DSS v3.2.1 ID(s) – 10.1,10.2,10.3
Recommendation & Procedure	Enable logging for security investigation. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0

Severity	High
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8.0.10 App service must be configured with Vnet Integration

Control ID	ELC-CS-AS-010
Control Definition	The App Service virtual network integration feature enables your apps to access resources in or through a virtual network.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV-2 CIS Controls v7.1 ID(s) – 5.4,5.5,11.3 CIS Controls V8 (ID'S) – 4.1,4.2 NIST SP800-53 r4 ID(s) – CM-2, CM-6 PCI-DSS v3.2.1 ID(s) –2.2
Recommendation & Procedure	Audit and enforce secure configurations. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.11 App Service apps should have remote debugging turned off

Control ID	ELC-CS-AS-011
Control Definition	Remote debugging requires inbound ports to be opened on an App Service app. Remote debugging should be turned off.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV-2 CIS Controls v7.1 ID(s) – 5.4,5.5,11.3 CIS Controls V8 (ID'S) – 4.1,4.2 NIST SP800-53 r4 ID(s) – CM-2, CM-6 PCI-DSS v3.2.1 ID(s) –2.2 ELC-AZS-AS-3.7.4- Azure Security Policy Standard Document
Recommendation & Procedure	Audit and enforce secure configurations. ELC_Cloud_Security_Azure_AppService_Reference_Document

	_V1.0
Severity	High

8.0.12 App Service apps should not have CORS configured to allow every resource to access your apps

Control ID	ELC-CS-AS-012
Control Definition	Cross-Origin Resource Sharing (CORS) should not allow all domains to access your app. Allow only required domains to interact with your app.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV-2 CIS Controls v7.1 ID(s) – 5.4,5.5,11.3 CIS Controls V8 (ID'S) – 4.1,4.2 NIST SP800-53 r4 ID(s) – CM-2, CM-6 PCI-DSS v3.2.1 ID(s) –2.2
Recommendation & Procedure	Audit and enforce secure configurations. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.13 Function apps should have remote debugging turned off

Control ID	ELC-CS-AS-013
Control Definition	Remote debugging requires inbound ports to be opened on Function apps. Remote debugging should be turned off.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV-2 CIS Controls v7.1 ID(s) – 5.4,5.5,11.3 CIS Controls V8 (ID'S) – 4.1,4.2 NIST SP800-53 r4 ID(s) – CM-2, CM-6 PCI-DSS v3.2.1 ID(s) –2.2 ELC-AZS-AS-3.7.5 - Azure Security Policy Standard Document

Recommendation & Procedure	Audit and enforce secure configurations. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.14 Function apps should not have CORS configured to allow every resource to access your apps

Control ID	ELC-CS-AS-014
Control Definition	Cross-Origin Resource Sharing (CORS) should not allow all domains to access your Function app. Allow only required domains to interact with your Function app.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV-2 CIS Controls v7.1 ID(s) – 5.4,5.5,11.3 CIS Controls V8 (ID'S) – 4.1,4.2 NIST SP800-53 r4 ID(s) – CM-2, CM-6 PCI-DSS v3.2.1 ID(s) –2.2
Recommendation & Procedure	Audit and enforce secure configurations. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.15 Azure Defender for App Service should be enabled

Control ID	ELC-CS-AS-015
Control Definition	Azure Defender for App Service leverages the scale of the cloud, and the visibility that Azure has as a cloud provider, to monitor for common web app attacks.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – LT-1 CIS Controls v7.1 ID(s) – 6.7 CIS Controls V8 (ID'S) – 8.11 NIST SP800-53 r4 ID(s) – AU-3, AU-6, AU-12, SI-4 PCI-DSS v3.2.1 ID(s) –10.6,10.8, A3.5,

Recommendation & Procedure	Enable threat detection capabilities. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.16 App Service apps should have resource logs enabled.

Control ID	ELC-CS-AS-016
Control Definition	Audit enabling of resource logs on the app. This enables you to recreate activity trails for investigation purposes if a security incident occurs or your network is compromised.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – LT-3 CIS Controls v7.1 ID(s) – 6.2,6.3,8.8 CIS Controls V8 (ID'S) – 8.2,8.5,8.12 NIST SP800-53 r4 ID(s) – AU-3, AU-6, AU-12, SI-4 PCI-DSS v3.2.1 ID(s) –10.1,10.2,10.3
Recommendation & Procedure	Enable logging for security investigation. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

8.0.17 Ensure that App service ingress/egress route paths to from the internet are internally routed.

Control ID	ELC-CS-AS-017
Control Definition	They should route via the east/west traffic via the east/west firewalls and ingress/egress traffic via the north/south Firewalls.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – LT-3 CIS Controls v7.1 ID(s) – 6.2,6.3,8.8 CIS Controls V8 (ID'S) – 8.2,8.5,8.12 NIST SP800-53 r4 ID(s) – AU-3, AU-6, AU-12, SI-4

	PCI-DSS v3.2.1 ID(s) –10.1,10.2,10.3
Recommendation & Procedure	Enable logging for security investigation. ELC_Cloud_Security_Azure_AppService_Reference_Document_V1.0
Severity	High

9.0 Azure Kubernetes Service

The Azure Kubernetes Services section defines the security control and standards for maintaining the security of ELC Information Technology to protect them from unauthorized access, modification, disclosure, and encrypt sensitive data inside the AKS services. The following industry good-practice frameworks, standards and guidelines were referenced from the standard section documents.

Section 3.8 of Azure Security Policies defines the Azure Kubernetes Services native control under “ELC Azure Security Policy Standards & Control Document of Azure Security Benchmark v2.1.0”.

9.0.1 Azure Role-Based Access Control (RBAC) should be used on Kubernetes Services.

Control ID	ELC-CS-AKS-001
Control Definition	Use a managed identity for enhanced authentication security
Control Domain	CIS Microsoft Azure Foundations Benchmark V1.0, V1.3.0, V1.4.0 – Control ID – 8.5, CMMC Level 3 - AC.1.001, AC.1.002, AC.2.007, AC.2.016, AC.1.062, Microsoft Cloud Security Benchmark V1.0 – PA-7, NIST SP800-53 r4 ID(s) – AC (3)-7, NIST SP800-53 r5 ID(s) – AC (3)-7 ELC-AZS-AKS-3.3.12 - Azure Security Policy Standard Document
Recommendation & Procedure	To provide granular filtering on the actions that users can perform, use Azure Role-Based Access Control (RBAC) to manage permissions in Kubernetes Service Clusters and configure relevant authorization policies.

	ELC_Cloud_Security_Azure Kubernetes_Services_Reference_Document_V1.0
Severity	High

9.0.2 *Kubernetes clusters should be accessible only over HTTPS.*

Control ID	ELC-CS-AKS-002
Control Definition	Use a managed identity for enhanced authentication security
Control Domain	FedRAMP High – SC-8 Microsoft Cloud Security Benchmark V1.0 – IM-3 CIS Controls v7.1 ID(s) – N/A CIS Controls V8 (ID’S) – N/A NIST SP800-53 r4 ID(s) – AC-2, AC-3, IA-4, IA-5, IA-9 PCI-DSS v3.2.1 ID(s) – N/A
Recommendation & Procedure	Manage application identities securely and automatically. ELC_Cloud_Security_Azure Kubernetes_Services_Reference_Document_V1.0
Severity	High

9.0.3 *Kubernetes cluster containers CPU and memory resource limits should not exceed the specified limits.*

Control ID	ELC-CS-AKS-003
Control Definition	Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV2 Fed Ramp Moderate – CM6 Fed Ramp High – CM6 NIST SP 800-171 R2 – 3.4.1, 3.4.2 NIST SP800-53 r4 ID(s) – CM-6

	NIST SP800-53 r5 ID(s) – SC-8 NL BIO Cloud Theme – C.04.7
Recommendation & Procedure	Enforce container CPU and memory resource limits to prevent resource exhaustion attacks in a Kubernetes cluster ELC_Cloud_Security_Azure Kubernetes_Services_Reference_Document_V1.0
Severity	High

9.0.4 *Authorized IP ranges should be defined on Kubernetes Services.*

Control ID	ELC-CS-AKS-004
Control Definition	Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks
Control Domain	Microsoft Cloud Security Benchmark V1.0 – NS2 Fed Ramp Moderate – AC4, SC-7, SC-7(3) Fed Ramp High – AC4, SC-7, SC-7(3) NIST SP 800-171 R2 – 3.1.3, 3.13.1, 3.13.2, 3.13.5, 3.13.6 NIST SP800-53 r4 ID(s) – AC-4, SC-7, SC-7(3) NIST SP800-53 r5 ID(s) – AC-4, SC-7, SC-7(3) NL BIO Cloud Theme – U.07.1
Recommendation & Procedure	Restrict access to the Kubernetes Service Management API by granting API access only to IP addresses in specific ranges. It is recommended to limit access to authorized IP ranges to ensure that only applications from allowed networks can access the cluster. ELC_Cloud_Security_Azure Kubernetes_Services_Reference_Document_V1.0
Severity	High

9.0.5 Azure Policy Add-on for Kubernetes service (AKS) should be installed and enabled on your cluster.

Control ID	ELC-CS-AKS-005
Control Definition	Enable FTPS enforcement for enhanced security.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV2 Fed Ramp Moderate – CM6 Fed Ramp High – CM6 NIST SP 800-171 R2 – 3.4.1, 3.4.2 NIST SP800-53 r4 ID(s) – CM-6 NIST SP800-53 r5 ID(s) – CM-6
Recommendation & Procedure	Kubernetes service (AKS) extends Gatekeeper v3, an admission controller webhook for Open Policy Agent (OPA), to apply at-scale enforcements and safeguards on your clusters in a centralized, consistent manner. ELC_Cloud_Security_Azure Kubernetes_Services_Reference_Document_V1.0
Severity	High

9.0.6 Kubernetes cluster containers should only use allowed images.

Control ID	ELC-CS-AKS-006
Control Definition	Enable FTPS enforcement for enhanced security.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV2 Fed Ramp Moderate – CM6 Fed Ramp High – CM6 NIST SP 800-171 R2 – 3.4.1,3.4.2

	NIST SP800-53 r4 ID(s) – CM-6 NIST SP800-53 r5 ID(s) – CM-6
Recommendation & Procedure	ELC_Cloud_Security_Azure Kubernetes_Services_Reference_Document_V1.0
Severity	High

9.0.7 *Kubernetes cluster pods and containers should only run with approved user and group ID.*

Control ID	ELC-CS-AKS-007
Control Definition	Enable FTPS enforcement for enhanced security.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV-2 Fed Ramp Moderate – CM6 Fed Ramp High – CM6 NIST SP 800-171 R2 – 3.4.1,3.4.2 NIST SP800-53 r4 ID(s) – CM-6 NIST SP800-53 r5 ID(s) – CM-6 NL BIO Cloud Theme – C.04.7 RMIT – 10.55
Recommendation & Procedure	Control the user, primary group, supplemental group, and file system group IDs that pods and containers can use to run in a Kubernetes Cluster ELC_Cloud_Security_Azure Kubernetes_Services_Reference_Document_V1.0
Severity	High

9.0.8 *Authorized IP ranges should be defined on Kubernetes Services.*

Control ID	ELC-CS-AKS-008
Control Definition	Enable FTPS enforcement for enhanced security.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – NS-2 FedRamp High – AC-4, SC-7, SC-7(3) FedRamp Moderate – AC-4, SC-7, SC-7(3)

	NIST SP 800-171 R2 – 3.1.3, 3.13.1, 3.13.2, 3.13.5, 3.13.6, NIST SP800-53 r4 ID(s) – AC-4, SC-7, SC-7(3) NIST SP800-53 r5 ID(s) – AC-4, SC-7, SC-7(3) NL BIO Cloud Theme – U.07.1
Recommendation & Procedure	Restrict access to the Kubernetes Service Management API by granting API access only to IP addresses in specific ranges. ELC_Cloud_Security_Azure Kubernetes_Services_Reference_Document_V1.0
Severity	High

9.0.9 *Resource logs in Azure Kubernetes Service should be enabled.*

Control ID	ELC-CS-AKS-009
Control Definition	Enable FTPS enforcement for enhanced security.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – LT-3 NL BIO Cloud Theme – U.15.1
Recommendation & Procedure	Azure Kubernetes Service's resource logs can help recreate activity trails when investigating security incidents. Enable it to make sure the logs will exist when needed. ELC_Cloud_Security_Azure Kubernetes_Services_Reference_Document_V1.0
Severity	High

9.0.10 *Azure running container images should have vulnerabilities resolved.*

Control ID	ELC-CS-AKS-010
Control Definition	Enable FTPS enforcement for enhanced security.
Control Domain	Microsoft Cloud Security Benchmark V1.0 – PV-6, DS-6 NL BIO Cloud Theme – U.09.3
Recommendation & Procedure	Container image vulnerability assessment scans container images running on your Kubernetes clusters for security vulnerabilities and exposes detailed findings for each image. Resolving the vulnerabilities can greatly improve your containers' security posture and protect them from attacks. ELC_Cloud_Security_Azure Kubernetes_Services_Reference_Document_V1.0
Severity	High

10.0 Data Protection

The Data Protection section defines the security control and standards for maintaining the security of ELC Information Technology to protect them from unauthorized access, modification, disclosure, and encrypt sensitive information at rest and transit. The following industry good-practice frameworks, standards and guidelines were referenced from the standard section documents.

Section 3.3 of Azure Security Policies defines the Data Protection native control under “**ELC Azure Security Policy Standards & Control Document of Azure Security Benchmark v2.1.0**”.

10.0.1 All cloud hosted DBs must be encrypted at rest.

Control ID	ELC-CS-DP-001
Control Definition	All IaaS/PaaS DBs must be encrypted at rest with the minimum system managed keys. When hosting sensitive/critical data customer managed keys are recommended. Azure Key vault can be used for key storage.
Control Domain	MCSB – DP-5 ASB v3-DP-5 CIS Controls V7.1 ID(s) – 14.8 CIS Controls V8 ID(s) – 3.11 NIST SP800-53 r4 ID(s) – SC-12, SC-28. PCI-DSS V3.2.1 ID(s) – 3.4, 3.5, 3.6 ELC-AZS-DP-3.3.1 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_DataProtection_Reference_Document_V1.0
Severity	High

10.0.2 All the data at transit must be encrypted between DB server and Client.

Control ID	ELC-CS-DP-002
Control Definition	Enforcing encryption such as SSL/TLS between your database server and your client applications helps protect against 'man in the middle' attacks by encrypting the data stream between the server and your application.
Control Domain	MCSB V1.0 - DP-3. ASB v3-DP-3. CIS Controls v7.1 ID(s) – 14.4. CIS Controls V8 ID(s) – 3.10 NIST SP800-53 r4 ID(s) – SC-8 PCI-DSS v3.2.1 ID(s) – 3.5, 3.6, 4.1 ELC-AZS-DP-3.3.2 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_DataProtection_Reference_Document_V1.0
Severity	High

10.0.3 Key vault items must be rotated /renewed periodically.

Control ID	ELC-CS-DP-003
Control Definition	Key vault items should have defined expiry date and rotated/renewed periodically. key vault items that are valid forever provide a potential attacker with more time to compromise them. It is a recommended security practice to set

	expiration dates on secrets/keys.
Control Domain	MCSB V1.0 – DP-6. ASB v3-DP-6 CIS Controls v7.1 ID(s) – N/A CIS Controls V8 ID(s) – N/A NIST SP800-53 r4 ID(s) – IA-5, SC-12, SC-28. PCI-DSS v3.2.1 ID(s) – 3.6 ELC-AZS-DP-3.3.3 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_DataProtection_Reference_Document_V1.0
Severity	High

10.0.4 Database servers should use customer-managed keys to encrypt data at rest.

Control ID	ELC-CS-DP-004
Control Definition	Implementing Transparent Data Encryption (TDE) with your own key provides increased transparency and control over the TDE Protector, increased security with an HSM-backed external service, and promotion of separation of duties. This recommendation applies to data classified with related compliance requirements.
Control Domain	MCSB – DP-5 ASB v3-DP-5 CIS Controls V7.1 ID(s) – 14.8 CIS Controls V8 ID(s) – 3.11 NIST SP800-53 r4 ID(s) – SC-12, SC-28. PCI-DSS V3.2.1 ID(s) – 3.4, 3.5, 3.6 ELC-AZS-DP-3.3.4 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_DataProtection_Reference_Document_V1.0
Severity	High

10.0.5 Transparent Data Encryption on SQL databases should be enabled.

Control ID	ELC-CS-DP-005
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Control Definition	Transparent data encryption should be enabled to protect data-at-rest, as per ELC data classifications and protection requirements.
Control Domain	MCSB V1.0 - DP-4. ASB v3-DP-4. CIS Controls v7.1 ID(s) – 14.8. CIS Controls V8 ID(s) – 3.11. NIST SP800-53 r4 ID(s) – SC-28. PCI-DSS v3.2.1 ID(s) – 3.4, 3.5. ELC-AZS-DP-3.3.8 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_DataProtection_Reference_Document_V1.0
Severity	High

10.0.6 Key vaults should have soft delete enabled.

Control ID	ELC-CS-DP-06
Control Definition	Deleting a key vault without soft delete enabled permanently deletes all secrets, keys, and certificates stored in the key vault. Accidental deletion of a key vault can lead to permanent data loss. Soft delete allows you to recover an accidentally deleted key vault for a configurable retention period.
Control Domain	MCSB V1.0 - DP-8. ASB v3-DP-8. CIS Controls v7.1 ID(s) – N/A. CIS Controls V8 ID(s) – N/A. NIST SP800-53 r4 ID(s) – IA-5, SC-12, SC-17. PCI-DSS v3.2.1 ID(s) – 3.6. ELC-AZS-DP-3.3.11 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_DataProtection_Reference_Document_V1.0
Severity	High

10.0.7 Managed disks should be double encrypted with both platform-managed and customer-managed keys.

Control ID	ELC-CS-DP-07
Control Definition	High security sensitive customers who are concerned of the risk associated with any encryption algorithm, implementation, or key being compromised can opt for additional layer of encryption using a different encryption algorithm/mode at the infrastructure layer using platform managed encryption keys. The disk encryption sets are required to use double encryption. Learn more at https://aka.ms/disks-doubleEncryption .
Control Domain	MCSB V1.0 - DP-3. ASB v3-DP-3. CIS Controls v7.1 ID(s) – 14.4. CIS Controls V8 ID(s) – 3.10 NIST SP800-53 r4 ID(s) – SC-8 PCI-DSS v3.2.1 ID(s) – 3.5, 3.6, 4.1 ELC-AZS-DP-3.3.13 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_DataProtection_Reference_Document_V1.0
Severity	High

10.0.8 Vulnerability assessment should be enabled on SQL Managed Instance.

Control ID	ELC-CS-DP-08
Control Definition	Audit each SQL Managed Instance which doesn't have recurring vulnerability assessment scans enabled. Vulnerability assessment can discover, track, and help you remediate potential database vulnerabilities.
Control Domain	MCSB V1.0 - PV-5. ASB v3-DP-5. CIS Controls v7.1 ID(s) – 3.1, 3.3, 3.6. CIS Controls V8 ID(s) – 5.5, 7.1, 7.5, 7.6. NIST SP800-53 r4 ID(s) – RA-3, RA-5. PCI-DSS v3.2.1 ID(s) – 6.1, 6.2, 6.6, 11.2. ELC-AZS-DP-3.3.15 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer the Best Practice Document to proceed further, ELC_Cloud_Security_Azure_DataProtection_Reference_Document_V1.0
Severity	High

11.0 Identity Management

The Identity Management section defines the security control and standards for maintaining the security of ELC Information Technology to protect them from unauthorized access, modification, disclosure of identity management. The following industry good-practice frameworks, standards and guidelines were referenced from the standard section documents.

Section 3.1 of Azure Security Policies defines the IAM native control under “**ELC Azure Security Policy Standards & Control Document of Azure Security Benchmark v2.1.0.**”

11.0.1 Azure API Management Services should have local authentication disabled.

Control ID	ELC-CS-IAM-01
Control Definition	To better secure the Azure API Management Services Developer Portal local user authentication should be disabled. Local user authentication should be enabled with ELC managed Identity platform (currently ForgeRock)
Control Domain	Microsoft Cloud Security Benchmark V1.0 - IA-9, CIS Controls V7.1 (ID'S) - NA CIS Controls V8 (ID'S) - NA, NIST SP800-53 r4 (ID'S) - IA-9 PCI-DSS V3.2.1 - NA
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further. ELC_Cloud_Security_Azure_Identity_Management_Reference_Document_V1.0
Severity	High

11.0.2 Management of Azure PaaS Databases should be authenticated through ELC Sanctioned IAM Platform.

Control ID	ELC-CS-IAM-02
Control Definition	Audit provisioning of an Azure Active Directory administrator for your SQL server to enable Azure AD authentication. Azure AD authentication enables simplified permission management and centralized identity management of database users and other Microsoft services.
Control Domain	ABS V3 – IM-1 CIS Controls V7.1 (ID'S) – 16.1,16.2 CIS Controls V8 (ID'S) – 6.7,12.5, NIST SP800-53 r4 (ID'S) – AC-2, AC-3, IA-2, IA-8 PCI-DSS V3.2.1 – 7.2,8.3
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further.

	ELC_Cloud_Security_Azure_Identity_Management_Reference_Document_V1.0
Severity	High

11.0.3 Virtual machines' Guest Configuration extension should be deployed with system-assigned managed identity.

Control ID	ELC-CS-IAM-03
Control Definition	The Guest Configuration extension requires a system assigned managed identity. Azure virtual machines in the scope of this policy will be non-compliant when they have the Guest Configuration extension installed but do not have a system assigned managed identity.
Control Domain	ABS V3 – IM-3 CIS Controls V7.1 (ID'S) -NA CIS Controls V8 (ID'S) - NA NIST SP800-53 r4 (ID'S) – AC-2, AC-3, IA-4, IA-5, IA-9. PCI-DSS V3.2.1 - NA
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further. ELC_Cloud_Security_Azure_Identity_Management_Reference_Document_V1.0
Severity	High

11.0.4 Access to owner privileges should be restricted and limited.

Control ID	ELC-CS-IAM-04
Control Definition	It is recommended to designate maximum up to 3 subscription owners. Owner privileges should be accessed through the Break Glass procedure sanctioned by ELC Security and Cloud Ops. All Azure access should be restricted to Least Privileged Role Based Access Control Policies (RBAC)
Control Domain	ABS V3 – PA-1 CIS Controls V7.1 (ID'S) -4.3, 14.6 CIS Controls V8 (ID'S) – 5.4, 6.8 NIST SP800-53 r4 (ID'S) – AC-2, AC-6 PCI-DSS V3.2.1 – 7.1, 7.2, 8.1 ELC-AZS-IAM-3.1.3, 3.1.6 - Azure Security Policy Standard Document
Recommendation & Procedure	Please refer to the Best Practice document to proceed further. ELC_Cloud_Security_Azure_Identity_Management_Reference_Document_V1.0
Severity	High

11.0.5 Audit all the Privileged Roles

Control ID	ELC-CS-IAM-05
Control Definition	Audit all privileged roles and keep logs for 12 months
Control Domain	ABS V3 – PA-7 CIS Controls V7.1 (ID'S) – 14.6 CIS Controls V8 (ID'S) – 3.3, 6.8 NIST SP800-53 r4 (ID'S) - AC-2, AC-3, AC-6 PCI-DSS V3.2.1 – 7.1, 7.2
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further. ELC_Cloud_Security_Azure_Identity_Management_Reference_Document_V1.0

Severity	High
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11.0.6 Accounts with write permissions on Azure resources should be MFA enabled. All accounts should have MFA enabled.

Control ID	ELC-CS-IAM-06
Control Definition	Multi-Factor Authentication (MFA) should be enabled for all subscription accounts with write privileges to prevent a breach of accounts or resources. All accounts should have MFA enabled. There can be exemptions which will be documented in a Policy document and will be treated case by case.
Control Domain	Microsoft cloud security benchmark V1 - IM-6 ABS V3 – IM-6 CIS Controls V7.1 (ID'S) -NA CIS Controls V8 (ID'S) - NA NIST SP800-53 r4 (ID'S) - NA PCI-DSS V3.2.1 - NA
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further. ELC_Cloud_Security_Azure_Identity_Management_Reference_Document_V1.0
Severity	High

11.0.7 Azure Data Factory linked services should use system-assigned managed identity authentication when it is supported.

Control ID	ELC-CS-IAM-07
Control Definition	Using system-assigned managed identity when communicating with data stores via linked services avoids the use of less secured credentials such as passwords or connection strings.
Control Domain	ABS V3 – NA CIS Controls V7.1 (ID'S) - NA CIS Controls V8 (ID'S) - NA NIST SP800-53 r4 (ID'S) - NA PCI-DSS V3.2.1 - NA
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further. ELC_Cloud_Security_Azure_Identity_Management_Reference_Document_V1.0
Severity	High

11.0.8 Configure Azure Event Grid partner namespaces to disable local authentication.

Control ID	ELC-CS-IAM-08
Control Definition	Disable local authentication methods so that your Azure Event Grid partner namespaces exclusively require Azure Active Directory identities for authentication.
Control Domain	ABS V3 – NA CIS Controls V7.1 (ID'S) - NA CIS Controls V8 (ID'S) - NA NIST SP800-53 r4 (ID'S) - NA PCI-DSS V3.2.1 - NA
Recommendation & Procedure	Please refer to the Best Practice Document to proceed further. ELC_Cloud_Security_Azure_Identity_Management_Reference_Document_V1.0

	e_Document_V1.0
Severity	High

12.0 Reference Document links

Reference document	Links
Microsoft Cloud Security Benchmark V1.0	https://learn.microsoft.com/en-us/security/benchmark/azure/overview#download
NIST SP 800-53 r5	https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-53r5.pdf
ISO/IEC 27001:2022	https://www.iso.org/obp/ui/#iso:std:iso-iec:27001:ed-3:v1:en
ISO/IEC 27002:2022	https://www.iso.org/obp/ui/#iso:std:iso-iec:27002:ed-3:v2:en
ELC ECR Cloud Security Hardening Standards v1.0	https://confluence.elcompanies.net/download/attachments/468264879/ELC%20ECR%20Cloud%20Security%20Hardening%20Standards%20v1.0.pdf?api=v2
ELC_Azure_Security_Policy_Standards_Control_Document	https://confluence.elcompanies.net/download/attachments/468264879/ELC_Azure_Security_Policy_Standards%20_Control_Document.pdf?api=v2
ELC_Cloud_Security_Azure_Network_Security_Group_Reference_Document_V1.0	https://confluence.elcompanies.net/download/attachments/468264879/ELC_Cloud_Security_Azure%20Network_Security_Group_Reference_Document_V1.0.pdf?api=v2
ELC_Cloud_Security_Azure_DataProtection_Reference_Document_V1.0	https://confluence.elcompanies.net/download/attachments/468264879/ELC_Cloud_Security_Azure_DataProtection_Reference_Document_V1.0.pdf?api=v2
ELC_Cloud_Security_Azure_Monitoring_Reference_Document_V1.0	https://confluence.elcompanies.net/download/attachments/468264879/ELC_Cloud_Security_Azure_Monitoring_Reference_Document_V1.0.pdf?api=v2
ELC_Cloud_Security_Azure_Storage_Reference_Document_V1.0	https://confluence.elcompanies.net/download/attachments/468264879/ELC_Cloud_Security_Azure_Storage_Reference_Document_V1.0.pdf?api=v2
ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0	https://confluence.elcompanies.net/download/attachments/468264879/ELC_Cloud_Security_Azure_Virtual_Machines_Reference_Document_V1.0.pdf?api=v2