Azure Security Assessment

4-week implementation for XXXXX customers

Azure Security Assessment (NIST 800-53 FedRAMP/High)

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- Regulatory compliance – NIST 800-53 Rev4 is a widely recognized security framework used by government agencies
- Enhanced security posture – The assessment process helps identify and address security vulnerabilities and weaknesses in the Azure environment
- Risk Mitigation – A security assessment based on NIST 800-53 Rev4 FedRAMP/high enables organizations to identify and prioritize risks associated with the Azure environment
- Competitive advantage and continuous improvement

Benefits
Deliverables

Visionet offers a comprehensive security assessment for your Microsoft Azure deployment, utilizing NIST 800-53 Rev4 and FedRAMP/High guidelines. As a cloud provider, we understand the importance of maintaining a secure connection. Our Governance, Risk, and Compliance (GRC) experts work closely with your SME and IT staff to ensure a thorough evaluation, following a proven methodology for optimal results.

- Establishing the existing cybersecurity posture
- Security assessment report
- Remediation recommendations list as per gap assessment report

Visionet’s Methodology

Scoping

- Define the scope of assessment identifying the Azure resources and services to be evaluated.

Documentation review

- Gather relevant documentation, including Azure architecture diagrams, system documentation, security controls documentation, and existing security policies and practices.

Controls Mapping and Gap Analysis

- Map NIST 800-53 Rev4 – FedRAMP/High security controls to the corresponding Azure security controls and services.
- Perform gap analysis by comparing the existing controls and configurations with the requirements of NIST 800-53 Rev 4 – FedRAMP/High
- Identify gaps, vulnerabilities and non-compliance areas that need to be addressed.

Vulnerability Assessment and Configuration Audit

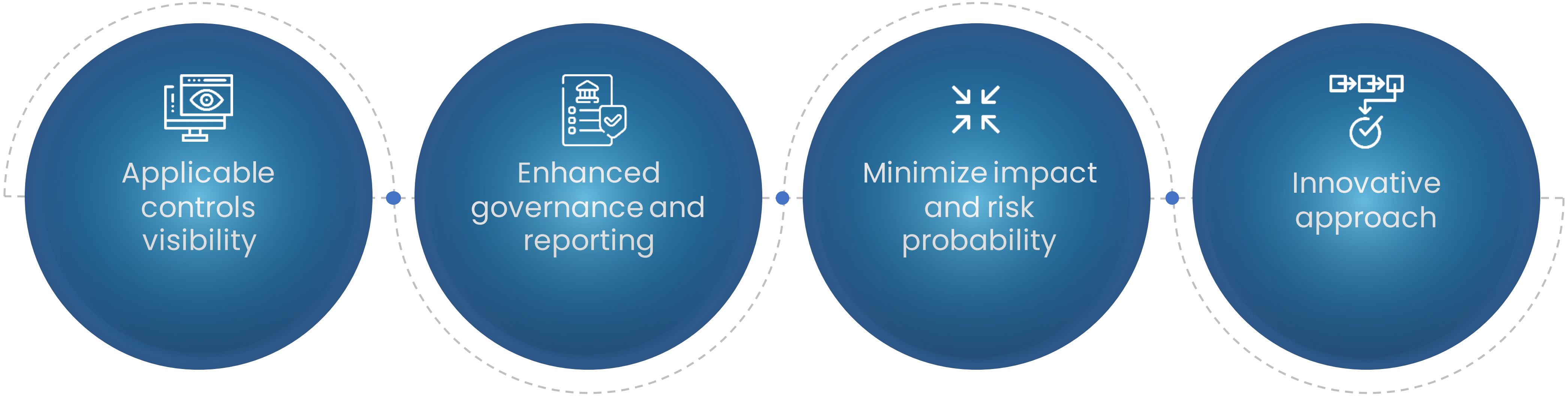
- Conduct a vulnerability assessment of the azure environment using appropriate scanning tools and techniques.
- Perform a configuration audit to evaluate access controls, network settings, the management of encryption mechanisms, and other relevant configurations.
- Review the document and prioritize the identified vulnerabilities and misconfigurations.

Remediation Planning and Implementation Guidance

- Provide remediation steps based on the prioritized vulnerabilities and gaps.
- Offer guidance for implementing security controls, making configuration changes, and updating policies to align with NIST 800-53 rev 4 – FedRAMP/High requirements.

Post-assessment Outcomes

Visionet’s Deliverables


Applicable controls visibility
Enhanced governance and reporting
Minimize impact and risk probability
Innovative approach

Attack Surface Summary (Overall risks, risks by group, risks by regions)

Compliance Health report

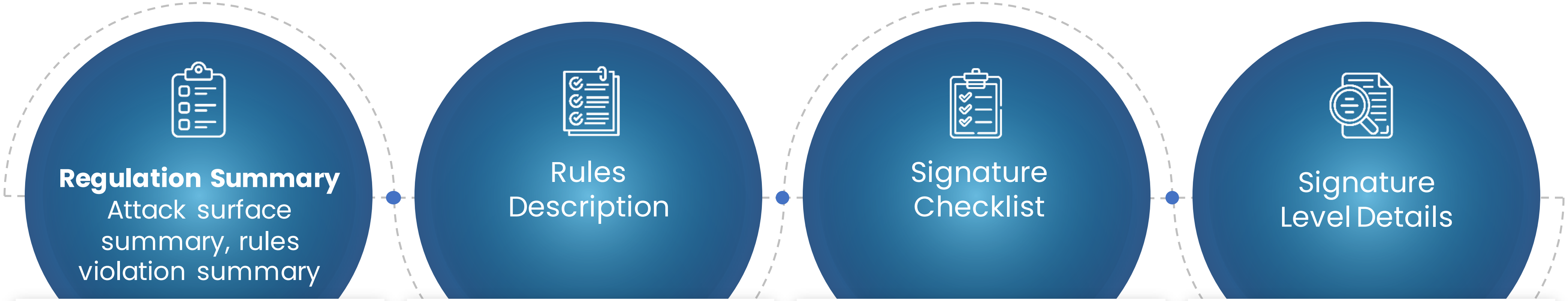
Signature checklist with flags, including severity, services, category, and remediations.

Visibility into protection capability gaps

A complete strategy related to Azure cloud security and regulatory compliance requirements involves several key components.

Post-assessment Outcomes

Visionet’s Deliverables

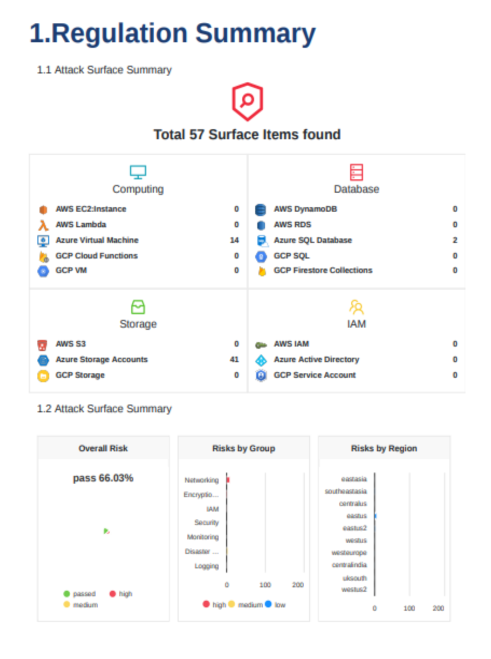


Regulation Summary Attack surface summary, rules violation summary

Rules Description

Signature Checklist

Signature Level Details



1.Regulation Summary

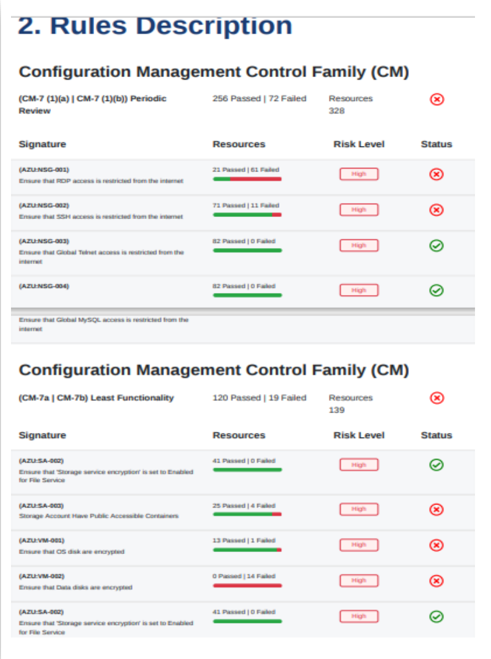
1.1 Attack Surface Summary

Total 57 Surface Items found

Computing		Database	
AWS EC2:Instance	0	AWS DynamoDB	0
AWS Lambda	0	AWS RDS	0
Azure Virtual Machine	14	Azure SQL Database	2
GCP Cloud Functions	0	GCP SQL	0
GCP VM	0	GCP Firestore Collections	0

Storage		IAM	
AWS S3	0	AWS IAM	0
Azure Storage Accounts	41	Azure Active Directory	0
GCP Storage	0	GCP Service Account	0

1.2 Attack Surface Summary



2. Rules Description

Configuration Management Control Family (CM)

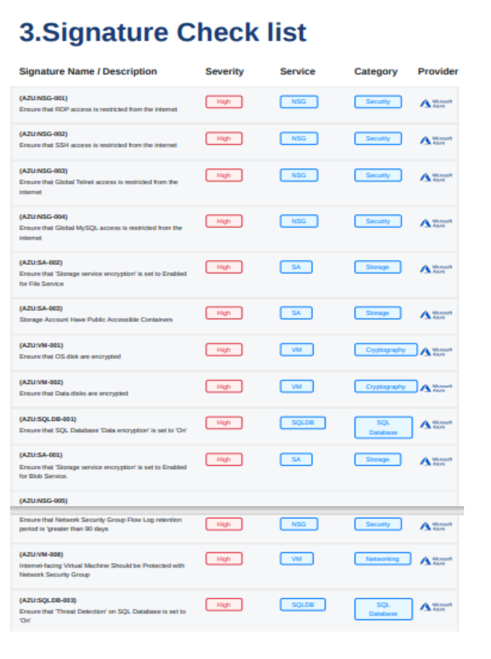
(CM-7 (1)(a) | CM-7 (1)(b)) Periodic Review	256 Passed | 72 Failed	Resources 328	⊗

Signature	Resources	Risk Level	Status
(AZU:NSG-001) Ensure that RDP access is restricted from the internet	21 Passed | 61 Failed	High	⊗
(AZU:NSG-002) Ensure that SSH access is restricted from the internet	71 Passed | 11 Failed	High	⊗
(AZU:NSG-003) Ensure that Global Telnet access is restricted from the internet	82 Passed | 0 Failed	High	✓
(AZU:NSG-004) Ensure that Global MySQL access is restricted from the internet	82 Passed | 0 Failed	High	✓

Configuration Management Control Family (CM)

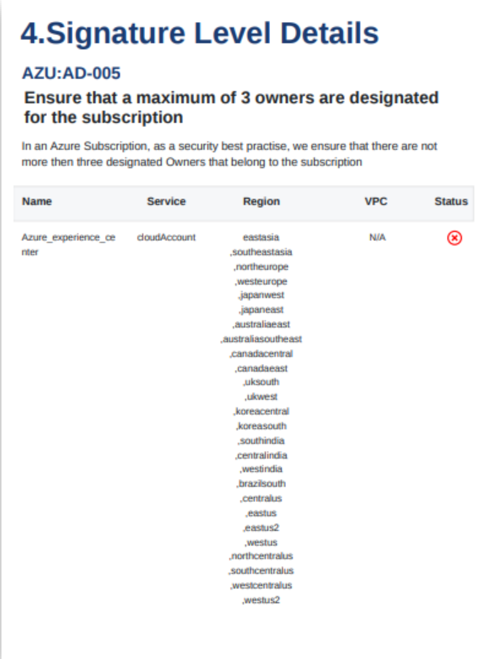
(CM-7a | CM-7b) Least Functionality	120 Passed | 19 Failed	Resources 139	⊗

Signature	Resources	Risk Level	Status
(AZU:SA-002) Ensure that 'Storage service encryption' is set to Enabled for File Service	41 Passed | 0 Failed	High	✓
(AZU:SA-003) Storage Account Have Public Accessible Containers	25 Passed | 4 Failed	High	⊗
(AZU:VM-001) Ensure that OS disk are encrypted	13 Passed | 1 Failed	High	⊗
(AZU:VM-002) Ensure that Data disks are encrypted	0 Passed | 14 Failed	High	⊗
(AZU:SA-002) Ensure that 'Storage service encryption' is set to Enabled for File Service	41 Passed | 0 Failed	High	✓



3.Signature Check list

Signature Name / Description	Severity	Service	Category	Provider
(AZU:NSG-001) Ensure that RDP access is restricted from the internet	High	NSG	Security	Microsoft Azure
(AZU:NSG-002) Ensure that SSH access is restricted from the internet	High	NSG	Security	Microsoft Azure
(AZU:NSG-003) Ensure that Global Telnet access is restricted from the internet	High	NSG	Security	Microsoft Azure
(AZU:NSG-004) Ensure that Global MySQL access is restricted from the internet	High	NSG	Security	Microsoft Azure
(AZU:SA-002) Ensure that 'Storage service encryption' is set to Enabled for File Service	High	SA	Storage	Microsoft Azure
(AZU:SA-003) Storage Account Have Public Accessible Containers	High	SA	Storage	Microsoft Azure
(AZU:VM-001) Ensure that OS disk are encrypted	High	VM	Cryptography	Microsoft Azure
(AZU:VM-002) Ensure that Data disks are encrypted	High	VM	Cryptography	Microsoft Azure
(AZU:SQLDB-001) Ensure that SQL Database 'Data encryption' is set to 'On'	High	SQLDB	SQL Database	Microsoft Azure
(AZU:SA-001) Ensure that 'Storage service encryption' is set to Enabled for Blob Service.	High	SA	Storage	Microsoft Azure
(AZU:NSG-005) Ensure that Network Security Group Flow Log retention period is 'greater than 90 days	High	NSG	Security	Microsoft Azure
(AZU:VM-008) Internet-facing Virtual Machine Should be Protected with Network Security Group	High	VM	Networking	Microsoft Azure
(AZU:SQLDB-003) Ensure that 'Threat Detection' on SQL Database is set to 'On'	High	SQLDB	SQL Database	Microsoft Azure



4.Signature Level Details

AZU:AD-005

Ensure that a maximum of 3 owners are designated for the subscription

In an Azure Subscription, as a security best practise, we ensure that there are not more then three designated Owners that belong to the subscription

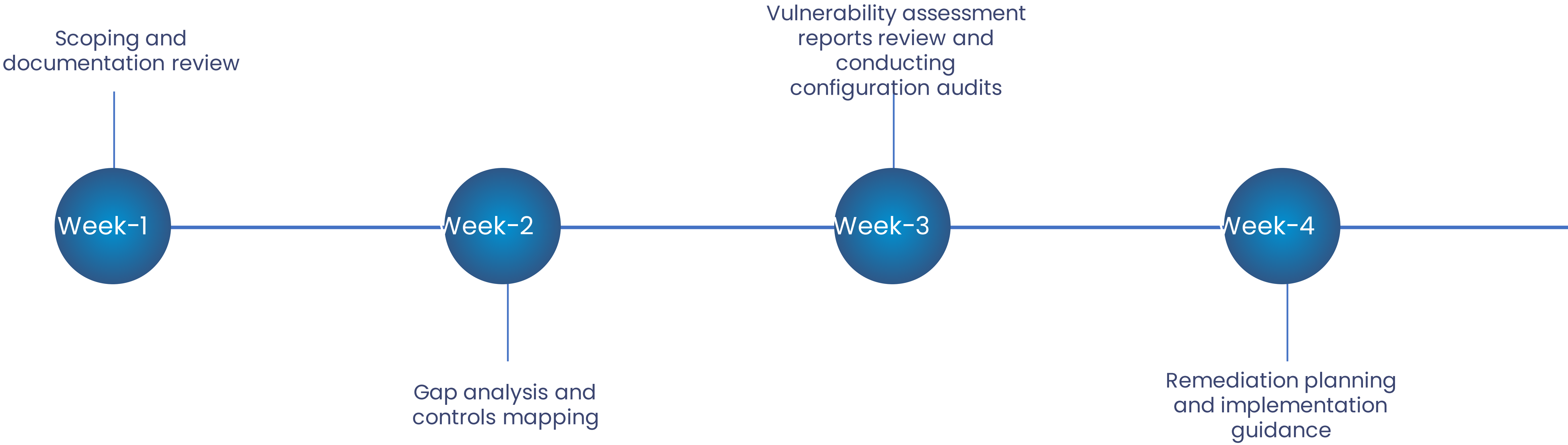
Name	Service	Region	VPC	Status
Azure_experience_center	cloudAccount	eastasia ,southeastasia ,northeurope ,westeurope ,japanwest ,japaneast ,australiaeast ,australiasoutheast ,canadacentral ,canadaeast ,uksouth ,ukwest ,koreacentral ,koreasouth ,southindia ,centralindia ,westindia ,brazilsouth ,centralus ,eastus ,eastus2 ,westus ,northcentralus ,southcentralus ,westcentralus ,westus2	N/A	⊗

Post-assessment Outcomes

Visionet's Deliverables sample report

Sample Graphical representation

Assessment Roadmap/Timelines



Week-1: Scoping and documentation review

Week-2: Gap analysis and controls mapping

Week-3: Vulnerability assessment reports review and conducting configuration audits

Week-4: Remediation planning and implementation guidance

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Visionet is an engineering-led company driven by innovation. In our 27+ year journey, we've helped over 350 clients across various industries to innovate faster, stay relevant, and create superior products and services.

With more than 8,000 people worldwide, across our 14 locations, Visionet provides transformative consulting, technology, and outsourcing services and solutions for a wide range of industries, including Retail & Consumer Goods, Pharmaceutical, Banking and Financial Institutions (BFSI), Insurance, Foods & Beverage, Manufacturing & Distribution, and Apparel & Footwear. Through our alliance with global innovators like Microsoft, Salesforce, Amazon Web Services, and Adobe, we offer next-generation services and solutions in Cloud, Digital, Data and AI, and Business Process Management.

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