



CONSENSUS ASSESSMENTS INITIATIVE QUESTIONNAIRE v3.1

Control Domain	Control ID	Question ID	Control Specification	Consensus Assessment Questions	Consensus Assessment Answers			Notes
					Yes	No	Not Applicable	
Application & Interface Security Assurance	AS01	AS01.1	Applications and programming interfaces (APIs) that are designed, developed, deployed, and tested in accordance with leading industry standards (e.g., OWASP for web applications) and adhere to applicable legal, statutory, or regulatory compliance obligations.	Do you use industry standards (e.g., OWASP Software Assurance Maturity Model, ISO 27034) to build in security for your systems/software development lifecycles (SDLC)?		X		
		AS01.2		Do you use an automated source code analysis tool to detect security defects in code prior to production?	X			
		AS01.3		Do you use manual source code analysis to detect security defects in code prior to production?	X			
		AS01.4		Do you verify that all of your software suppliers adhere to industry standards for systems/software development lifecycle (SDLC) security?		X		
		AS01.5		Do you review your applications for security vulnerabilities and address any issues prior to deployment to production?	X			
Application & Interface Security Assurance	AS02	AS02.1	Prior to granting customer access to data, assets, and information systems, identified security, contractual, and regulatory requirements for customer access to data, assets, and information systems?	Are all identified security, contractual, and regulatory requirements for customer access contractually addressed and validated prior to granting customer access to data, assets, and information systems?		X		
		AS02.2		Are all requirements and trust levels for customer access defined and documented?	X			
Application & Interface Security Assurance	AS03	AS03.1	Data input and output integrity routines (e.g., reconciliation and edit checks) that are implemented for application interfaces and databases to prevent manual or systematic processing errors, corruption of data, or misuse.	Does your data management policies and procedures require audits to verify data input and output integrity routines?	X			
		AS03.2		Are data input and output integrity routines (e.g., MD5/PKA checksums) implemented for application interfaces and databases to prevent manual or systematic processing errors or corruption of data?	X			
Application & Interface Security Assurance	AS04	AS04.1	Policies and procedures that are established and maintained in support of data security to include confidentiality, integrity, and availability across multiple system interfaces, jurisdictions, and business functions to prevent improper disclosure, alteration, or destruction.	Is your Data Security Architecture designed using an industry standard (e.g., CISA, MULTISAFE, CSA Trusted Cloud Architectural Standard, FedRAMP, CACRAMP)?		X		
		AS04.2		Do you develop and maintain an agreed upon audit plan (e.g., scope, objective, frequency, resources, etc.) for reviewing the efficiency and effectiveness of implemented security controls?	X			
Audit Assurance & Compliance	AAC01	AAC01.1	Audit plans that are developed and maintained to address business process directions. Auditing plans that focus on reviewing the effectiveness of the implementation of security operations. All audit activities must be agreed upon in advance.	Does your audit program take into account effectiveness of implementation of security operations?	X			
		AAC01.2		Do you allow tenants to view your SOC2/ISO 27001 or similar third-party audit or certification reports?	X			
Audit Assurance & Compliance	AAC02	AAC02.1	Independent reviews and assessments that are performed at least annually to ensure that the organization addresses nonconformances of established policies, standards, procedures, and compliance obligations.	Do you conduct network penetration tests of your cloud service infrastructure at least annually?	X			
		AAC02.2		Do you conduct application penetration tests of your cloud infrastructure regularly as prescribed by industry best practices and guidance?	X			
		AAC02.3		Do you conduct internal audits at least annually?	X			
		AAC02.4		Do you conduct independent audits at least annually?		X		
		AAC02.5		Are the results of the penetration tests available to tenants at their request?	X			
		AAC02.6		Are the results of internal and external audits available to tenants at their request?	X			
		AAC02.7		Do you have a program in place that includes the ability to monitor changes to the regulatory requirements in relevant jurisdictions, adjust your security program for changes to legal requirements, and ensure compliance with relevant regulatory requirements?	X			
Audit Assurance & Compliance	AAC03	AAC03.1	Organizations that create and maintain a control framework which captures standards, regulatory, legal, and statutory requirements relevant for their business needs. The control framework shall be reviewed at least annually to ensure changes that could affect the business processes are reflected.	Does your organization have a plan or framework for business continuity management or disaster recovery management?	X			
		AAC03.2		Do you have more than one provider for each service you depend on?	X			
		AAC03.3		Do you provide a disaster recovery capability?	X			
		AAC03.4		Do you monitor service continuity with upstream providers in the event of provider failure?	X			
		AAC03.5		Do you provide access to operational readiness reports, including the services you rely on?		X		
		AAC03.6		Do you provide a tenant-triggered failover option?		X		
		AAC03.7		Do you share your business continuity and redundancy plans with your tenants?		X		
Business Continuity Management & Operational Resilience	BC01	BC01.1	A consistent unified framework for business continuity planning and plan development shall be established, documented, and adopted to ensure all business continuity plans are consistent in addressing priorities for testing, maintenance, and information security requirements. Requirements for business continuity plans include the following: • Defined purpose and scope, aligned with relevant dependencies • Accessible to and understood by those who will use them • Owned by a named person(s) who is responsible for their review, update, and approval • Defined lines of communication, roles, and responsibilities • Detailed recovery procedures, manual work-around, and reference	Are business continuity plans subject to testing at planned intervals or upon significant organizational or environmental changes to ensure continuing effectiveness?	X			
		BC01.2		Does your organization adhere to any international or industry standards when it comes to securing, monitoring, maintaining and testing of disaster recovery services and environmental conditions?		X		
Business Continuity Management & Operational Resilience	BC02	BC02.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Has your organization implemented environmental controls, fail-over mechanisms or other redundancies to secure utility services and mitigate environmental conditions?		X		
		BC02.2		Are information system documents (e.g., administrator and user guides, architecture diagrams, etc.) made available to authorized personnel to ensure configuration, installation and operation of the information system?	X			
Business Continuity Management & Operational Resilience	BC03	BC03.1	Data center utilities and environmental conditions (e.g., water, power, temperature and humidity controls, telecommunications, and internet connectivity) shall be secured, monitored, maintained, and tested for continued effectiveness or planned intervals to ensure protection from:	Does your organization adhere to any international or industry standards when it comes to securing, monitoring, maintaining and testing of disaster recovery services and environmental conditions?		X		
		BC03.2		Has your organization implemented environmental controls, fail-over mechanisms or other redundancies to secure utility services and mitigate environmental conditions?		X		
Business Continuity Management & Operational Resilience	BC04	BC04.1	Information system documentation (e.g., administrator and user guides, and architecture diagrams) shall be made available to authorized personnel to ensure the following: • Configuring, installing, and operating the information system • Effectively using the system's security features	Are physical damage anticipated and are countermeasures included in the design of physical protections?	X			
		BC04.2		Are any of your data centers located in places that have a high probability of occurrence of high-impact environmental risks (floods, tsunamis, earthquakes, hurricanes, etc.)?		X		
Business Continuity Management & Operational Resilience	BC05	BC05.1	Physical protection against damage from natural causes and disasters, as well as deliberate attacks, including fire, flood, atmospheric electrical discharge, solar induced geomagnetic storm, wind, volcanic activity, explosion, seismic activity, volcanic activity, biological hazard, civil unrest, mudslides, tectonic activity, and other forms of natural or man-made disaster shall be anticipated, designed, and have countermeasures applied.	Do you have documented policies, procedures and supporting business processes for equipment and datacenter maintenance?		X		
		BC05.2		Do you have an equipment and datacenter maintenance routine or plan?		X		
Business Continuity Management & Operational Resilience	BC06	BC06.1	To reduce the risks from environmental threats, hazards, and opportunities for unauthorized access, equipment shall be kept away from locations subject to high probability environmental risk and supplemented by redundant equipment located at a reasonable distance.	Are security mechanisms and redundancies implemented to protect equipment from utility service outages (e.g., power failures, network disruptions, etc.)?	X			
		BC06.2		Do you use industry standards and frameworks to determine the impact of any disruption to the organization (cloud provider, cloud consumer) that must incorporate the following: • Business process dependencies • Technical measures implemented, and supporting business processes and technical measures implemented, for appropriate IT governance and service management to ensure appropriate planning, delivery and support of the organization IT capabilities supporting business functions, workloads, and/or customers based on industry acceptable standards (e.g., ITIL v4 and COBIT). Additionally, policies and procedures shall include defined roles and responsibilities supported by regular workforce training.	Do you have technical capabilities to enforce tenant data retention policies?	X		
Business Continuity Management & Operational Resilience	BC07	BC07.1	There shall be a defined and documented method for determining the impact of any disruption to the organization (cloud provider, cloud consumer) that must incorporate the following: • Business process dependencies • Technical measures implemented, and supporting business processes and technical measures implemented, for appropriate IT governance and service management to ensure appropriate planning, delivery and support of the organization IT capabilities supporting business functions, workloads, and/or customers based on industry acceptable standards (e.g., ITIL v4 and COBIT). Additionally, policies and procedures shall include defined roles and responsibilities supported by regular workforce training.	Do you have documented policies and procedures demonstrating adherence to data retention periods as per legal, statutory or regulatory compliance requirements?		X		
		BC07.2		Have you implemented backup or recovery mechanisms to ensure compliance with regulatory, statutory, contractual or business requirements?	X			
Business Continuity Management & Operational Resilience	BC08	BC08.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Are virtual infrastructure, does your cloud solution include independent hardware restore and recovery capabilities?	X			
		BC08.2		Are virtual infrastructure, does your cloud solution include independent hardware restore and recovery capabilities?	X			
Business Continuity Management & Operational Resilience	BC09	BC09.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Are there policies and procedures in place to triage and remedy reported bugs and security vulnerabilities for product and service offerings?	X			
		BC09.2		Do you have controls in place to ensure that standards of quality are being met for all software development?	X			
Business Continuity Management & Operational Resilience	BC10	BC10.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Do you have controls in place to detect source code security defects for any outsourced software development activities?	X			
		BC10.2		Are mechanisms in place to ensure that all debugging and test code elements are removed from released software versions?	X			
Business Continuity Management & Operational Resilience	BC11	BC11.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Do you have technical capabilities to enforce tenant data retention policies?	X			
		BC11.2		Do you have documented policies and procedures demonstrating adherence to data retention periods as per legal, statutory or regulatory compliance requirements?		X		
Business Continuity Management & Operational Resilience	BC12	BC12.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Have you implemented backup or recovery mechanisms to ensure compliance with regulatory, statutory, contractual or business requirements?	X			
		BC12.2		Are virtual infrastructure, does your cloud solution include independent hardware restore and recovery capabilities?	X			
Business Continuity Management & Operational Resilience	BC13	BC13.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Are there policies and procedures in place to triage and remedy reported bugs and security vulnerabilities for product and service offerings?	X			
		BC13.2		Do you have controls in place to ensure that standards of quality are being met for all software development?	X			
Business Continuity Management & Operational Resilience	BC14	BC14.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Do you have controls in place to detect source code security defects for any outsourced software development activities?	X			
		BC14.2		Are mechanisms in place to ensure that all debugging and test code elements are removed from released software versions?	X			
Business Continuity Management & Operational Resilience	BC15	BC15.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Do you have technical capabilities to enforce tenant data retention policies?	X			
		BC15.2		Do you have documented policies and procedures demonstrating adherence to data retention periods as per legal, statutory or regulatory compliance requirements?		X		
Business Continuity Management & Operational Resilience	BC16	BC16.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Have you implemented backup or recovery mechanisms to ensure compliance with regulatory, statutory, contractual or business requirements?	X			
		BC16.2		Are virtual infrastructure, does your cloud solution include independent hardware restore and recovery capabilities?	X			
Business Continuity Management & Operational Resilience	BC17	BC17.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Do you have controls in place to detect source code security defects for any outsourced software development activities?	X			
		BC17.2		Are mechanisms in place to ensure that all debugging and test code elements are removed from released software versions?	X			
Change Control & Configuration Management	CC01	CC01.1	Policies and procedures that are established, and supporting business processes and technical measures implemented, to restrict the operation of unauthorized software on organizationally owned or managed user end-point devices (e.g., issued workstations, laptops, and mobile devices) and IT infrastructure network and systems components.	Are policies and procedures established for management authorization for development or acquisition of new applications, systems, databases, infrastructure, services, operations and practices?	X			
		CC01.2		Do you have technical capabilities to enforce tenant data retention policies?	X			
Change Control & Configuration Management	CC02	CC02.1	External business partners that adhere to the same policies and procedures for change management, release, and testing as internal developers within the organization (e.g., ITL service management process).	Are policies and procedures for change management, release, and testing adequately communicated to external business partners?	X			
		CC02.2		Are policies and procedures adequately enforced to ensure external business partners comply with change management requirements?		X		
Change Control & Configuration Management	CC03	CC03.1	Organizations that follow a defined quality change control and testing process (e.g., ITL Service Management) with established baselines, testing, and release standards which focus on system availability, confidentiality, and integrity of systems and services.	Do you have a defined quality change control and testing process in place based on system availability, confidentiality, and integrity?	X			
		CC03.2		Is documentation describing known issues with certain products/services available?	X			
Change Control & Configuration Management	CC04	CC04.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Are there policies and procedures in place to triage and remedy reported bugs and security vulnerabilities for product and service offerings?	X			
		CC04.2		Do you have controls in place to ensure that standards of quality are being met for all software development?	X			
Change Control & Configuration Management	CC05	CC05.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Do you have controls in place to detect source code security defects for any outsourced software development activities?	X			
		CC05.2		Are mechanisms in place to ensure that all debugging and test code elements are removed from released software versions?	X			
Change Control & Configuration Management	CC06	CC06.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Do you have technical capabilities to enforce tenant data retention policies?	X			
		CC06.2		Do you have documented policies and procedures demonstrating adherence to data retention periods as per legal, statutory or regulatory compliance requirements?		X		
Change Control & Configuration Management	CC07	CC07.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Have you implemented backup or recovery mechanisms to ensure compliance with regulatory, statutory, contractual or business requirements?	X			
		CC07.2		Are virtual infrastructure, does your cloud solution include independent hardware restore and recovery capabilities?	X			
Data Security & Information Lifecycle Management	DS01	DS01.1	Data and objects containing data that is assigned a classification by the data owner based on data type, value, sensitivity, and criticality to the organization.	Do you provide transparency with documentation that describes your production change management procedures and their relevant responsibilities within IT?		X		
		DS01.2		Do you have policies and procedures established for managing risks with respect to change management in production environments?	X			
Data Security & Information Lifecycle Management	DS02	DS02.1	Policies and procedures that are established, and supporting business processes and technical measures implemented, to restrict the operation of unauthorized software on organizationally owned or managed user end-point devices (e.g., issued workstations, laptops, and mobile devices) and IT infrastructure network and systems components.	Do you have technical measures in place to ensure that changes in production environments are registered, authorized and in adherence with security & risk?	X			
		DS02.2		Do you provide a capability to identify data and virtual machines via policy tags/metadata (e.g., tags can be used to limit guest operating systems from booting/installs/transferring data in the wrong country)?	X			
Data Security & Information Lifecycle Management	DS03	DS03.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Do you have policies and procedures established for managing risks with respect to change management in production environments?	X			
		DS03.2		Do you have technical measures in place to ensure that changes in production environments are registered, authorized and in adherence with security & risk?	X			
Data Security & Information Lifecycle Management	DS04	DS04.1	Policies and procedures that are established, and supporting business processes and technical measures implemented, to restrict the operation of unauthorized software on organizationally owned or managed user end-point devices (e.g., issued workstations, laptops, and mobile devices) and IT infrastructure network and systems components.	Do you provide standardized (e.g., ISO/IEC) non-proprietary encryption algorithms (DES, AES, etc.) to tenants in order for them to protect their data? (It is required to move through public networking, if the answer is "no")	X			
		DS04.2		Do you utilize open encryption methodologies any time your infrastructure components need to communicate with each other via public networks (e.g., internet based replication of data from one environment to another)?	X			
Data Security & Information Lifecycle Management	DS05	DS05.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Are policies and procedures established for data labelling and handling in order to ensure the security of data and objects that contain data?	X			
		DS05.2		Do you follow a structured data labelling standard (e.g., ISO 15489, OASIS XML Catalog Specification, CSA data type guidance)?	X			
Data Security & Information Lifecycle Management	DS06	DS06.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Do you follow a structured data labelling standard (e.g., ISO 15489, OASIS XML Catalog Specification, CSA data type guidance)?	X			
		DS06.2		Are mechanisms for label inheritance implemented for objects that act as aggregate containers for data?	X			
Data Security & Information Lifecycle Management	DS07	DS07.1	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted business tenants and other business relationships that represent critical intra-supply chain business process dependencies.	Do you have procedures in place to ensure production data shall not be replicated or used in non-production environments. Any use of customer data in non-production environments requires explicit, documented approval from all customers whose data is affected, and must comply with all legal and regulatory requirements for scrubbing of sensitive data elements.	Do you have procedures in place to ensure production data shall not be replicated or used in non-production environments?	X		
		DS07.2		Are the responsibilities regarding data stewardship defined, assigned, documented, and communicated?	X			

Data Security & Information Lifecycle Management	DS-07	DS-07.1	Policies and procedures shall be established with supporting business processes and technical measures implemented for the secure disposal and complete removal of data from all storage media, ensuring data is not recoverable by any means.	Do you support the secure deletion (e.g., degaussing/cryptographic wiping) of archived and backed-up data?	X	
Datacenter Security Asset Management	DC-01	DC-01.1	Assets must be classified in terms of business criticality, service level expectations, and operational continuity requirements. A complete inventory of business critical assets located at all sites and/or geographical locations and their associated physical security perimeters (e.g., fences, walls, barriers, guards, gates, electronic surveillance, physical authentication mechanisms, reception desks, and security patrols) shall be implemented to safeguard sensitive data and information systems.	Can you provide a published procedure for setting the service arrangement, including assurance to sanitize or compute resources of tenant data once a customer has ended their resource?	X	
Datacenter Security Controlled Access Points	DC-02	DC-02.1	Physical security perimeters (e.g., fences, walls, barriers, guards, gates, electronic surveillance, physical authentication mechanisms, reception desks, and security patrols) shall be implemented to safeguard sensitive data and information systems.	Do you classify your assets in terms of business criticality, service-level expectations, and operational continuity requirements?		X
Datacenter Security Equipment Identification	DC-03	DC-03.1	Automated equipment identification shall be used as a method of connection verification. Location-aware technologies shall be used to validate authentication integrity based on known equipment location.	Do you maintain a complete inventory of all of your critical assets located at all sites or geographical locations and their assigned ownership?		X
Datacenter Security Office Authorization	DC-04	DC-04.1	Authorization must be obtained prior to relocation or transfer of hardware, hardware, or data to an office premises.	Are physical security perimeters (e.g., fences, walls, barriers, guards, gates, electronic surveillance, physical authentication mechanisms, reception desks, and security patrols) implemented for all areas housing sensitive data and information systems?		X
Datacenter Security Office Equipment	DC-05	DC-05.1	Policies and procedures shall be established for the secure disposal of equipment by asset type used outside the organization's premises. This shall include wiping actions in destruction process that renders recovery of information impossible. The erasure shall consist of a full write of the drive to ensure that the erased drive is released to inventory for reuse or deployment or securely stored until it can be destroyed.	Do you have a capability to use system geographic location as an authentication factor?	X	
Datacenter Security Policy	DC-06	DC-06.1	Policies and procedures shall be established, and supporting business processes implemented, for maintaining a safe and secure working environment in offices, rooms, facilities, and secure areas during sensitive information.	Do you have a capability to use system geographic location as an authentication factor?	X	
Datacenter Security Secure Area Enforcement	DC-07	DC-07.1	Ingress and egress control mechanisms to be constrained and monitored by physical access control mechanisms to ensure that only authorized personnel are allowed access.	Do you have a capability to use system geographic location as an authentication factor?	X	
Datacenter Security Unauthorized Personnel Entry	DC-08	DC-08.1	Ingress and egress points such as service areas and other points where unauthorized personnel may enter the premises shall be monitored, controlled, and, if possible, locked from data storage and processing facilities to prevent unauthorized data corruption, compromise, and loss.	Can you provide evidence that policies, standards, and procedures have been established for maintaining a safe and secure working environment in offices, rooms, facilities, and secure areas?	X	
Datacenter Security User Access	DC-09	DC-09.1	Physical access to information assets and functions by users and support personnel shall be restricted.	Can you provide evidence that your personnel and involved third parties have been trained regarding your documented policies, standards, and procedures?		X
Encryption & Key Management	EM-01	EM-01.1	Key must have identifiable owners (binding keys to identities) and there shall be key management policies.	Is authorization obtained prior to relocation or transfer of hardware, software, or data to an office premises?	X	
Encryption & Key Management	EM-02	EM-02.1	Policies and procedures shall be established for the management of cryptographic keys in the service cryptology (e.g., lifecycle management from key generation to revocation and replacement, public key infrastructure, cryptographic protocol design and algorithms used, access controls in place for secure key generation and exchange and storage including segregation of key used for encrypted data or sessions). Upon request, provider shall inform the customer of the key management policies, standards, and procedures (if the subscriber device is used as part of the service, and for the customer).	Do you provide tenants with your asset management policies and procedures?	X	
Encryption & Key Management	EM-03	EM-03.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, for the use of encryption protocols for the protection of sensitive data in storage (e.g., file servers, databases, and end-user workstations) and data in transmission (e.g., system interfaces, user proxy networks, and electronic messaging) as per applicable legal, statutory, and regulatory requirements.	Can you provide evidence that policies, standards, and procedures have been established for maintaining a safe and secure working environment in offices, rooms, facilities, and secure areas?	X	
Encryption & Key Management	EM-04	EM-04.1	Platform and data appropriate encryption (e.g., AES-256 in operationalized formats and standard algorithms) shall be required. Keys shall not be stored in the cloud (e.g., at the cloud provider in question), but maintained by the cloud consumer or trusted key management provider. Key management and key usage shall be separated duties.	Can you provide evidence that your personnel and involved third parties have been trained regarding your documented policies, standards, and procedures?	X	
Governance and Risk Management	GRM-01	GRM-01.1	Baseline security requirements shall be established for developed or acquired, organizationally owned or managed, physical or virtual, applications and infrastructure systems, and network components that comply with applicable legal, statutory, and regulatory compliance obligations. Deviations from these requirements shall be documented and approved by the risk management function.	Do you have physical access control mechanisms (e.g., CCTV cameras, ID cards, checkpoints) in place to secure, constrain and monitor ingress and egress points?	X	
Governance and Risk Management	GRM-02	GRM-02.1	Risk assessments associated with data governance requirements shall be conducted at planned intervals and shall consider the following: <ul style="list-style-type: none"> • Awareness of where sensitive data is stored and transmitted across 	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Governance and Risk Management	GRM-03	GRM-03.1	Managers are responsible for maintaining awareness of, and complying with, security policies, procedures, and standards that are relevant to their area of responsibility.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Governance and Risk Management	GRM-04	GRM-04.1	An Information Security Management Program (ISMP) shall be developed, documented, approved, and implemented. Technical and physical safeguards to protect assets and data from loss, misuse, disclosure, and destruction shall be established and maintained.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Governance and Risk Management	GRM-05	GRM-05.1	Executive and line management shall take formal action to support information security through clearly documented direction and commitment, and shall ensure the action has been assigned.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Governance and Risk Management	GRM-06	GRM-06.1	Information security policies and procedures shall be established and made readily available for review by all impacted personnel and external business relationships. Information security policies must be authorized by the organization's business leadership (or other accountable business role or function) and supported by a strategic business plan and an information security management program inclusive of defined information security roles and responsibilities for business leadership.	Do you leverage encryption to protect data and virtual machine images during transport across and between networks and hypervisor instances?	X	
Governance and Risk Management	GRM-07	GRM-07.1	Formal disciplinary or sanction policy shall be established for employees who have violated security policies and procedures. Employees shall be made aware of what action might be taken in the event of a violation, and disciplinary actions shall be taken in the event of a violation.	Do you utilize any third party/open source/proprietary frameworks to manage encryption keys?	X	
Governance and Risk Management	GRM-08	GRM-08.1	Risk assessment results shall include updates to security policies, procedures, standards, and controls to ensure they remain relevant and effective.	Do you encrypt tenant data at rest (on disk/storage) within your environment?	X	
Governance and Risk Management	GRM-09	GRM-09.1	The organization's business leadership (or other accountable business role or function) shall review the information security policy at planned intervals or as a result of changes to the organization to ensure continuing alignment with any changes to information systems that determine the likelihood and impact of different risks used to evaluate and measure risk.	Do you store encryption keys in the cloud?	X	
Governance and Risk Management	GRM-10	GRM-10.1	Aligned with the enterprise-wide framework, formal risk assessments that are performed at least annually or at planned intervals, and in conjunction with any changes to information systems that determine the likelihood and impact of different risks used to evaluate and measure risk. The likelihood of risk shall be defined as a scoreable level. Any controls linked to risk criteria shall be established and documented in accordance with reasonable reaction time to the risk or the risk reduction.	Do you have separate key management and key usage duties?	X	
Governance and Risk Management	GRM-11	GRM-11.1	Risks shall be mitigated to an acceptable level. Any controls linked to risk criteria shall be established and documented in accordance with reasonable reaction time to the risk or the risk reduction.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Human Resources	HR-01	HR-01.1	Upon termination of contract or business relationship, an employer and business partners' adequately informed of their obligations for returning organizationally owned assets?	Do you have a capability to allow creation of unique encryption key per tenant?	X	
Human Resources	HR-02	HR-02.1	Pursuant to local laws, regulations, ethics, and contractual constraints, all employment candidates, contractors, and third parties shall be subject to background verification proportional to the data classification to be accessed, the business requirements, and acceptable risk.	Do you have a capability to manage encryption keys on behalf of tenants?	X	
Human Resources	HR-03	HR-03.1	Employment agreements shall incorporate provisions and/or terms in adherence to established information governance and security policies and must be signed by newly hired or on-boarded workforce personnel (e.g., full or part time employee or contingent staff) prior to granting workforce personnel user access to corporate facilities, resources, and assets?	Do you maintain key management procedures?	X	
Human Resources	HR-04	HR-04.1	Roles and responsibilities for performing employment termination or change in employment procedures shall be assigned, documented, and communicated.	Do you have documented ownership for each stage of the lifecycle of encryption keys?	X	
Human Resources	HR-05	HR-05.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, to manage business risks associated with permitting mobile device access to corporate resources and may require the implementation of higher assurance compensating controls and acceptable policies and procedures (e.g., mandated security training, stronger identity, enrollment and access controls, and device monitoring).	Do you utilize any third party/open source/proprietary frameworks to manage encryption keys?	X	
Human Resources	HR-06	HR-06.1	Requirements for non-disclosure or confidentiality agreements reflecting the organization's needs for the protection of data and operational details shall be identified, documented, and reviewed at planned intervals.	Do you encrypt tenant data at rest (on disk/storage) within your environment?	X	
Human Resources	HR-07	HR-07.1	Roles and responsibilities of contractors, employees, and third party users shall be documented as they relate to information assets and security.	Do you leverage encryption to protect data and virtual machine images during transport across and between networks and hypervisor instances?	X	
Human Resources	HR-08	HR-08.1	Policies and procedures shall be established, and supporting business processes and technical measures implemented, for defining allowances and conditions for permitting usage of organizationally owned or managed user end-point devices and IT infrastructure network and systems components?	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Human Resources	HR-09	HR-09.1	Security awareness training programs shall be established for all contractors, third party users, and employees of the organization and mandated when appropriate. All individuals with access to organization's data shall receive appropriate awareness training and regular updates in organizational procedures, processes, and policies relating to their professional function relative to the organization.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Human Resources	HR-10	HR-10.1	All personnel shall be made aware of their role and responsibilities for: <ul style="list-style-type: none"> • Maintaining awareness and compliance with established policies and procedures and applicable legal, statutory, or regulatory compliance obligations. • Maintaining a safe and secure working environment. 	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Human Resources	HR-11	HR-11.1	Policies and procedures shall be established to ensure that unattended workspaces do not have openly visible (e.g., on a desktop) sensitive documents and user computing sessions had been disabled after an established period of inactivity.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-01	IAM-01.1	Access to, and use of, assets that interact with the organization's information systems shall be appropriately segmented and restricted to prevent compromise and misuse of data.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-02	IAM-02.1	User access policies and procedures shall be established, and supporting business processes and technical measures implemented, for ensuring appropriate identity, entitlement, and access management for all internal corporate and customer (tenant) users with access to data and organizationally owned or managed physical and virtual application interfaces and infrastructure network and systems components. These policies, procedures, processes, and technical measures shall include the following: <ul style="list-style-type: none"> • Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship. • Business case considerations for higher levels of assurance and multi-factor authentication (e.g., management interface, emergency remote user access to diagnostic and configuration ports that be restricted to authorized individuals and applications). 	Do you have a capability to allow creation of unique encryption key per tenant?	X	
Identity & Access Management	IAM-03	IAM-03.1	User access to diagnostic and configuration ports that be restricted to authorized individuals and applications.	Do you have a capability to manage encryption keys on behalf of tenants?	X	
Identity & Access Management	IAM-04	IAM-04.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you maintain key management procedures?	X	
Identity & Access Management	IAM-05	IAM-05.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented ownership for each stage of the lifecycle of encryption keys?	X	
Identity & Access Management	IAM-06	IAM-06.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you utilize any third party/open source/proprietary frameworks to manage encryption keys?	X	
Identity & Access Management	IAM-07	IAM-07.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you encrypt tenant data at rest (on disk/storage) within your environment?	X	
Identity & Access Management	IAM-08	IAM-08.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you leverage encryption to protect data and virtual machine images during transport across and between networks and hypervisor instances?	X	
Identity & Access Management	IAM-09	IAM-09.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-10	IAM-10.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-11	IAM-11.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Identity & Access Management	IAM-12	IAM-12.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-13	IAM-13.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-14	IAM-14.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-15	IAM-15.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-16	IAM-16.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Identity & Access Management	IAM-17	IAM-17.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-18	IAM-18.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-19	IAM-19.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-20	IAM-20.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-21	IAM-21.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Identity & Access Management	IAM-22	IAM-22.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-23	IAM-23.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-24	IAM-24.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-25	IAM-25.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-26	IAM-26.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Identity & Access Management	IAM-27	IAM-27.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-28	IAM-28.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-29	IAM-29.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-30	IAM-30.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-31	IAM-31.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Identity & Access Management	IAM-32	IAM-32.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-33	IAM-33.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-34	IAM-34.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-35	IAM-35.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-36	IAM-36.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Identity & Access Management	IAM-37	IAM-37.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-38	IAM-38.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-39	IAM-39.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-40	IAM-40.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-41	IAM-41.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Identity & Access Management	IAM-42	IAM-42.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-43	IAM-43.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-44	IAM-44.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-45	IAM-45.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-46	IAM-46.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Identity & Access Management	IAM-47	IAM-47.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-48	IAM-48.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-49	IAM-49.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-50	IAM-50.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-51	IAM-51.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Identity & Access Management	IAM-52	IAM-52.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-53	IAM-53.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-54	IAM-54.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-55	IAM-55.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-56	IAM-56.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	
Identity & Access Management	IAM-57	IAM-57.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you store encryption keys in the cloud?	X	
Identity & Access Management	IAM-58	IAM-58.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have separate key management and key usage duties?	X	
Identity & Access Management	IAM-59	IAM-59.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have documented information security baselines for every component of your infrastructure (e.g., hypervisors, operating systems, routers, DNS servers, etc.)?	X	
Identity & Access Management	IAM-60	IAM-60.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have a capability to continuously monitor and report the compliance of your infrastructure against your information security baseline?	X	
Identity & Access Management	IAM-61	IAM-61.1	Procedures, supporting roles, and responsibilities for provisioning and de-provisioning user account entitlements following the role of least privilege based on the function (e.g., internal employees and contingent staff) and/or their business relationship.	Do you have platform and data appropriate encryption that is used in operationalized formats and standard algorithms?	X	

Identity & Access Management User Access Policies	IAM04	IAM04.1	<p>Policy and procedures shall be established to store and manage identity information about every person who accesses IT infrastructure to determine their level of access. Policies shall also be developed to control their level of access.</p>	Do you manage and store the identity of all personnel who have access to the IT infrastructure, including their level of access?	X	
		IAM04.2	<p>User access policies and procedures shall be established, and supporting business processes and technical measures implemented, for restricting user access as per defined segregation of duties to address business risks associated with user role conflict of interest.</p>	Do you manage and store the user identity of all personnel who have network access, including their level of access?	X	
Identity & Access Management Segregation of Duties	IAM05	IAM05.1	<p>Policy and procedures shall be established, and supporting business processes and technical measures implemented, for restricting user access as per defined segregation of duties to address business risks associated with user role conflict of interest.</p>	Do you provide tenants with documentation on how you maintain segregation of duties within your cloud service offering?	X	
		IAM05.2	<p>Access to the organization's own developed applications, program, or object source code, or any other form of intellectual property (IP), and use of proprietary software shall be appropriately restricted following the rule of least privilege based on job function per established user access policies and procedures.</p>	Are controls in place to prevent unauthorized access to your application, program, or object source code, and assure it is restricted to authorized personnel only?	X	
Identity & Access Management Data Access Restriction	IAM06	IAM06.1	<p>Access to the organization's own developed applications, program, or object source code, or any other form of intellectual property (IP), and use of proprietary software shall be appropriately restricted following the rule of least privilege based on job function per established user access policies and procedures.</p>	Are controls in place to prevent unauthorized access to tenant application, program, or object source code, and assure it is restricted to authorized personnel only?	X	X
		IAM06.2	<p>The identification, assessment, and prioritization of risks posed by business processes requiring third party access to the organization's information systems and data shall be followed by coordinated application of resources to the risks.</p>	Does your organization conduct third-party unauthorized access risk assessments?	X	
Identity & Access Management User Access Restriction/Factorization	IAM08	IAM08.1	<p>Policy and procedures are established for permissible storage and access of sensitive user data to ensure that sensitive data is only accessible based on rules of least privilege and replication limitation only to users explicitly defined as business necessary.</p>	Do you document how you grant, approve and enforce access restrictions to tenant/customer credentials following the rules of least privilege?	X	
		IAM08.2	<p>Provisioning user access (e.g., employees, contractors, customers/beneficiaries, business partners and/or supplier) related to data and organizational systems and network components shall be authorized by the organization's management prior to access being granted and appropriately restricted as per established policies and procedures. Upon request, provider shall inform.</p>	Do you limit identifier replication only to users explicitly defined as business necessary?	X	
Identity & Access Management User Access Authorization	IAM09	IAM09.1	<p>Provisioning user access (e.g., employees, contractors, customers/beneficiaries, business partners and/or supplier) related to data and organizational systems and network components shall be authorized by the organization's management prior to access being granted and appropriately restricted as per established policies and procedures. Upon request, provider shall inform.</p>	Do you provide upon the request of users with legitimate interest access (e.g., employees, contractors, customers/beneficiaries, business partners and/or suppliers) to data and any owned or managed (physical and virtual) applications, infrastructure systems and network components?	X	
		IAM09.2	<p>User access shall be authorized and revalidated for entitlement opportunities, at planned intervals, by the organization's business leadership or other accountable business role or function supported by evidence to demonstrate the organization is adhering to the rule of least privilege based on job function. For identified access violations, remediation must follow established user access policies and procedures.</p>	Do you require a periodical authorization and validation (e.g., at least annually) of the entitlements for all user system users and administrators (exclusive of users maintained by your tenants, based on the rule of least privilege, by business leadership or other accountable business role or function)?	X	X
Identity & Access Management User Access Review	IAM10	IAM10.1	<p>User access shall be authorized and revalidated for entitlement opportunities, at planned intervals, by the organization's business leadership or other accountable business role or function supported by evidence to demonstrate the organization is adhering to the rule of least privilege based on job function. For identified access violations, remediation must follow established user access policies and procedures.</p>	Do you ensure that remediation actions for access violations follow user access policies?	X	X
		IAM10.2	<p>Adherence to industry acceptable and/or regulatory compliant authentication, authorization, and accounting (AAA) roles (e.g., strong/multi-factor, expirable, non-shared authentication).</p>	Will you share user entitlement and remediation reports with your tenants? If inappropriate access may have been allowed to tenant data?	X	X
		IAM10.3	<p>Timely deprovisioning, revocation, or modification of user access to data and organizationally owned or managed (physical and virtual) applications, infrastructure systems, and network components, shall be implemented as per established policies and procedures based on user change in status (e.g., internal corporate or customer identity) user account credentials shall be restricted as per the following, ensuring appropriate identity, entitlement, and access management and in accordance with established policies and procedures.</p>	Do you timely deprovisioning, revocation, or modification of user access to the organization's systems, information assets, and data implemented upon any change in status of employee, contractor, customer, business partner, or involved third parties?	X	
		IAM10.4	<p>Identity trust verification and service to service application (API) and information processing interoperability (e.g., SSO and Federation).</p>	Is any change in user access status intended to include termination of employment, contract or agreement, change of employment or transfer within the organization?	X	X
Identity & Access Management User Access Credential	IAM12	IAM12.1	<p>Internal corporate or customer identity user account credentials shall be restricted as per the following, ensuring appropriate identity, entitlement, and access management and in accordance with established policies and procedures.</p>	Do you support user-to-integration with, existing customer-based Single Sign On (SSO) solutions to your service?	X	
		IAM12.2	<p>Account credential lifecycle management from instantiation through revocation.</p>	Do you use open standards to delegate authentication capabilities to your tenants?	X	
		IAM12.3	<p>Account credential lifecycle management from instantiation through revocation.</p>	Do you support identity federation standards (e.g., SAML, SPML, WS-Federation, etc.) as a means of authenticating/authorizing users?	X	
		IAM12.4	<p>Account credential lifecycle management from instantiation through revocation.</p>	Do you have a Policy Enforcement Point capability (e.g., XACML) to enforce regional legal and policy constraints on user access?	X	
		IAM12.5	<p>Account credential lifecycle management from instantiation through revocation.</p>	Do you have an identity management system (enabling classification of data for a tenant) in place to enable both role-based and context-based entitlement to data?	X	
		IAM12.6	<p>Account credential lifecycle management from instantiation through revocation.</p>	Do you provide tenants with strong multi-factor authentication options (e.g., digital codes, tokens, biometric, etc.) for user access?	X	
		IAM12.7	<p>Account credential lifecycle management from instantiation through revocation.</p>	Do you allow tenants to use third-party identity assurance services?	X	
		IAM12.8	<p>Account credential lifecycle management from instantiation through revocation.</p>	Do you allow tenants to define password and account lockout policies for their accounts?	X	
		IAM12.9	<p>Account credential lifecycle management from instantiation through revocation.</p>	Do you support the ability to force password changes upon first login?	X	
		IAM12.10	<p>Account credential lifecycle management from instantiation through revocation.</p>	Do you have mechanisms in place for unlocking accounts that have been locked out (e.g., self-service via email, defined challenge/questions, manual unlock)?	X	
Identity & Access Management Utility Programs Access	IAM13	IAM13.1	<p>Utility programs capable of potentially overriding system, object, network, virtual machine, and application controls shall be restricted.</p>	Are access to utility programs used to manage virtualized partitions (e.g., shutdown, clone, etc.) appropriately restricted and monitored?	X	
		IAM13.2	<p>Higher levels of assurance are required for protection, retention, and lifecycle management of audit logs, adhering to applicable legal, statutory, or regulatory compliance obligations and providing unique user access accountability to detect potentially suspicious network behaviors and/or file integrity anomalies, used to support forensic investigative capabilities in the event of a security breach.</p>	Are file integrity (host) and network intrusion detection (IDS) tools implemented to help facilitate timely detection, investigation by root cause analysis, and response to incidents?	X	X
Information & Privacy Data Protection	IP01	IP01.1	<p>The provider shall ensure the integrity of all virtual machine images at all times. Any changes made to virtual machine images must be logged and an alert raised regardless their running state (e.g., dormant, off, or running). The results of a change or review of an image and the subsequent validation of the image's integrity must be immediately available to customers through electronic methods (e.g., portals/emails).</p>	Are physical and logical user access audits logs restricted to authorized personnel?	X	
		IP01.2	<p>Reliable and mutually agreed upon external time source shall be used to synchronize the system clocks of all relevant information processing systems to facilitate auditing and reconstruction of security events.</p>	Can you provide evidence that due diligence mapping of regulations and standards to your controls/architecture/processes has been performed?	X	
		IP01.3	<p>The availability, quality, and adequate capacity and resources shall be planned, prepared, and measured to deliver the required system performance in line with their data storage and regular compliance obligations. Projections of future capacity requirements shall be made to mitigate the risk of system overload.</p>	Are audit logs centrally stored and retained?	X	
		IP01.4	<p>Implementers shall ensure that the security vulnerability assessment tools or services accommodate the virtualization technologies used (e.g., virtualization aware).</p>	Are audit logs reviewed on a regular basis for security events (e.g., with automated tools)?	X	
Information & Privacy Data Protection	IP02	IP02.1	<p>Each operating system shall be hardened to provide only necessary ports, protocols, and services to meet business needs and have in place supporting technical controls such as antivirus, file integrity monitoring, and logging as part of their baseline operating build standard or template.</p>	Do you log and alert any changes made to virtual machine images regardless of their running state (e.g., dormant, off, or running)?	X	X
		IP02.2	<p>Production and non-production environments shall be separated to prevent unauthorized access or changes to information assets. Separation of the environments may include: logical separation (firewalls, domain-based authentication sources, and clear segregation of duties for personnel accessing the environments).</p>	Do you have a Policy Enforcement Point capability (e.g., XACML) to enforce regional legal and policy constraints on user access?	X	
Information & Privacy Data Protection	IP03	IP03.1	<p>Multi-tenant organizational owned or managed (physical and virtual) applications, and infrastructure system and network components, shall be designed, developed, deployed, and configured such that provider and customer/tenant user access is appropriately segmented from other tenant users, based on the following considerations:</p> <ul style="list-style-type: none"> Established policies and procedures Isolation of sensitive assets and/or sensitive user data and sessions Compliant user, role, application, and program controls and high levels of assurance Secure and encrypted communications channels shall be used when migrating physical servers, applications, or data to virtualized servers and, where possible, shall use a network segregated from production-level networks for backhauling. 	Are changes made to virtual machines, or moving of an image and subsequent validation of the image's integrity, made immediately available to customers through electronic methods (e.g., portals/emails)?	X	X
		IP03.2	<p>Access to the hypervisor management functions or administrative consoles for systems hosting virtualized systems shall be restricted to personnel based upon the principle of least privilege and supported through technical controls (e.g., two-factor authentication, audit trails, IP address filtering, firewalls, and TLS encapsulated communications to the administrative consoles).</p>	Do you use a synchronized time-service protocol (e.g., NTP) to ensure all systems have a common time reference?	X	
Information & Privacy Data Protection	IP04	IP04.1	<p>Policy and procedures shall be established, and supporting business processes and technical measures implemented, to protect wireless network environments, including the following:</p> <ul style="list-style-type: none"> Perimeter firewalls implemented and configured to restrict unauthorized traffic. Security settings enabled with strong encryption for authentication and transmission, replacing vendor default settings (e.g., encryption keys, passwords, and SNMP community strings). Network architecture diagrams shall clearly identify high-risk environments and data flows that may have legal compliance impacts. Technical measures shall be implemented and shall apply evidence-in-depth techniques (e.g., deep packet analysis, traffic throttling, and black holing) for detection and timely response to network-based attacks associated with compromised users or devices. The provider shall use open and published APIs to ensure support for interoperability between components and to facilitate migrating applications. 	Do you restrict access to the hypervisor management function or administrative consoles for systems hosting virtualized systems based on the principle of least privilege and supported through technical controls (e.g., two-factor authentication, audit trails, IP address filtering, firewalls and TLS-encapsulated communications to the administrative consoles)?	X	X
		IP04.2	<p>Policy and procedures shall be established, and supporting business processes and technical measures implemented, to protect wireless network environments, including the following:</p> <ul style="list-style-type: none"> Perimeter firewalls implemented and configured to restrict unauthorized traffic. Security settings enabled with strong encryption for authentication and transmission, replacing vendor default settings (e.g., encryption keys, passwords, and SNMP community strings). Network architecture diagrams shall clearly identify high-risk environments and data flows that may have legal compliance impacts. Technical measures shall be implemented and shall apply evidence-in-depth techniques (e.g., deep packet analysis, traffic throttling, and black holing) for detection and timely response to network-based attacks associated with compromised users or devices. The provider shall use open and published APIs to ensure support for interoperability between components and to facilitate migrating applications. 	Are policies and procedures established and mechanisms configured and implemented to protect the wireless network environment perimeter and to restrict unauthorized wireless traffic?	X	
Information & Privacy Data Protection	IP05	IP05.1	<p>Policy and procedures shall be established, and supporting business processes and technical measures implemented, to protect wireless network environments, including the following:</p> <ul style="list-style-type: none"> Perimeter firewalls implemented and configured to restrict unauthorized traffic. Security settings enabled with strong encryption for authentication and transmission, replacing vendor default settings (e.g., encryption keys, passwords, and SNMP community strings). Network architecture diagrams shall clearly identify high-risk environments and data flows that may have legal compliance impacts. Technical measures shall be implemented and shall apply evidence-in-depth techniques (e.g., deep packet analysis, traffic throttling, and black holing) for detection and timely response to network-based attacks associated with compromised users or devices. The provider shall use open and published APIs to ensure support for interoperability between components and to facilitate migrating applications. 	Are policies and procedures established and mechanisms implemented to ensure wireless security settings are enabled with strong encryption for authentication and transmission, replacing vendor default settings (e.g., encryption keys, passwords, SNMP community strings)?	X	
		IP05.2	<p>Policy and procedures shall be established, and supporting business processes and technical measures implemented, to protect wireless network environments, including the following:</p> <ul style="list-style-type: none"> Perimeter firewalls implemented and configured to restrict unauthorized traffic. Security settings enabled with strong encryption for authentication and transmission, replacing vendor default settings (e.g., encryption keys, passwords, and SNMP community strings). Network architecture diagrams shall clearly identify high-risk environments and data flows that may have legal compliance impacts. Technical measures shall be implemented and shall apply evidence-in-depth techniques (e.g., deep packet analysis, traffic throttling, and black holing) for detection and timely response to network-based attacks associated with compromised users or devices. The provider shall use open and published APIs to ensure support for interoperability between components and to facilitate migrating applications. 	Are policies and procedures established and mechanisms implemented to protect wireless network environments and detect the presence of unauthorized (rogue) network devices for a timely disconnection from the network?	X	X
Interoperability & Portability APIs	IPY01	IPY01.1	<p>All structured and unstructured data shall be available to the customer and provided to them upon request in an industry standard format (e.g., doc, xls, pdf, logs, and flat files).</p>	Do your network architecture diagrams clearly identify high-risk environments and data flows that may have legal compliance impacts?	X	
		IPY01.2	<p>Policy, procedures, and mutually agreed upon provisions and/or terms shall be established to satisfy customer (tenant) requirements for service-to-service application (API) and information processing interoperability, and portability for application development and information exchange, usage, and integrity preservation.</p>	Do you implement technical measures and apply evidence-in-depth techniques (e.g., deep packet analysis, traffic throttling and black holing) for detection and timely response to network based attacks associated with anomalous ingress or egress traffic patterns (e.g., MAC spoofing and ARP poisoning attacks) and/or distributed denial of service (DDoS) attacks?	X	X
Interoperability & Portability Data Forward	IPY02	IPY02.1	<p>All structured and unstructured data shall be available to the customer and provided to them upon request in an industry standard format (e.g., doc, xls, pdf, logs, and flat files).</p>	Do you publish a list of all APIs available in the service and indicate which are standard and which are customized?	X	
		IPY02.2	<p>Policy, procedures, and mutually agreed upon provisions and/or terms shall be established to satisfy customer (tenant) requirements for service-to-service application (API) and information processing interoperability, and portability for application development and information exchange, usage, and integrity preservation.</p>	Do you import, data export, and service management be conducted over secure (e.g., non-clear text and authenticated), industry accepted standard network protocols?	X	X
Interoperability & Portability Policy & Legal	IPY03	IPY03.1	<p>Policy, procedures, and mutually agreed upon provisions and/or terms shall be established to satisfy customer (tenant) requirements for service-to-service application (API) and information processing interoperability, and portability for application development and information exchange, usage, and integrity preservation.</p>	Do you have a policy enforcement capability (e.g., XACML) to ensure that only approved applications and those from approved application stores can be loaded onto a mobile device?	X	
		IPY03.2	<p>Policy, procedures, and mutually agreed upon provisions and/or terms shall be established to satisfy customer (tenant) requirements for service-to-service application (API) and information processing interoperability, and portability for application development and information exchange, usage, and integrity preservation.</p>	Do you have a policy enforcement capability (e.g., XACML) to ensure that only approved applications and those from approved application stores can be loaded onto a mobile device?	X	
Interoperability & Portability Standardized Network Protocols	IPY04	IPY04.1	<p>The provider shall use secure (e.g., non-clear text and authenticated) standardized network protocols for the import and export of data and to manage the service, and shall make available a document to consumers (tenant) detailing the relevant information and portability standards that are involved.</p>	Does your BYOD policy and training clearly state which applications and applications stores are approved for use on BYOD devices?	X	
		IPY04.2	<p>The provider shall use secure (e.g., non-clear text and authenticated) standardized network protocols for the import and export of data and to manage the service, and shall make available a document to consumers (tenant) detailing the relevant information and portability standards that are involved.</p>	Do you have a documented mobile device policy that includes a documented definition for mobile devices and the acceptable usage and requirements for all mobile devices. The provider shall post and communicate the policy and requirements through the company's security awareness and train program.	X	X
Interoperability & Portability Data Forward	IPY05	IPY05.1	<p>The provider shall use an industry recognized virtualization platform and standard virtualization format (e.g., OVF) to help ensure interoperability.</p>	Do you have a documented mobile device policy that includes a documented definition for mobile devices and the acceptable usage and requirements for all mobile devices. The provider shall post and communicate the policy and requirements through the company's security awareness and train program.	X	X
		IPY05.2	<p>The provider shall use an industry recognized virtualization platform and standard virtualization format (e.g., OVF) to help ensure interoperability.</p>	Do you have a documented mobile device policy that includes a documented definition for mobile devices and the acceptable usage and requirements for all mobile devices. The provider shall post and communicate the policy and requirements through the company's security awareness and train program.	X	X
Mobile Security Awareness Training	MS01	MS01.1	<p>Anti-malware awareness training, specific to mobile devices, shall be included in the provider's information security awareness training.</p>	Do you provide anti-malware training specific to mobile devices as part of your information security awareness training?	X	
		MS01.2	<p>Documented list of approved application stores has been communicated as acceptable for mobile device access or storing provider managed data.</p>	Do you have a documented list of approved application stores that has been communicated as acceptable for mobile device access or storing provider managed data?	X	
Mobile Security Approved Applications	MS02	MS02.1	<p>Documented list of approved application stores has been communicated as acceptable for mobile device access or storing provider managed data.</p>	Do you have a policy enforcement capability (e.g., XACML) to ensure that only approved applications and those from approved application stores can be loaded onto a mobile device?	X	
		MS02.2	<p>The provider shall use an industry recognized virtualization platform and standard virtualization format (e.g., OVF) to help ensure interoperability.</p>	Does your BYOD policy and training clearly state which applications and applications stores are approved for use on BYOD devices?	X	
Mobile Security Approved Software for BYOD	MS03	MS03.1	<p>Documented list of approved application stores has been communicated as acceptable for mobile device access or storing provider managed data.</p>	Do you have a documented mobile device policy that includes a documented definition for mobile devices and the acceptable usage and requirements for all mobile devices. The provider shall post and communicate the policy and requirements through the company's security awareness and train program.	X	X
		MS03.2	<p>The provider shall use an industry recognized virtualization platform and standard virtualization format (e.g., OVF) to help ensure interoperability.</p>	Do you have a documented mobile device policy that includes a documented definition for mobile devices and the acceptable usage and requirements for all mobile devices. The provider shall post and communicate the policy and requirements through the company's security awareness and train program.	X	X

Module	Module ID	Module Description	Requirement	Assessment	Notes
Mobile Security	MOS-06	Cloud Based Services	MOS-06-1	Do you have a documented list of pre-approved cloud based services that are allowed to be used for use and storage of company business data (i.e. mobile devices)?	X
Mobile Security	MOS-07	Mobile Device Compatibility	MOS-07-1	Do you have a documented application validation process for testing device, operating system, and application compatibility issues?	X
Mobile Security	MOS-08	Mobile Device Eligibility	MOS-08-1	Do you have a BYOD policy that defines the device(s) and eligibility requirements allowed for BYOD usage?	X
Mobile Security	MOS-09	Mobile Device Inventory	MOS-09-1	Do you maintain an inventory of all mobile devices storing and accessing company data which includes device status (e.g., operating system and patch levels, lost or decommissioned status, and to whom the device is assigned or approved for usage (BYOD)), will be included for each device in the inventory?	X
Mobile Security	MOS-10	Mobile Device Management	MOS-10-1	Do you have a centralized mobile device management solution deployed to all mobile devices that are permitted to store, transmit, or process company data?	X
Mobile Security	MOS-11	Mobile Security Encryption	MOS-11-1	Does your mobile device policy require the use of encryption for either the entire device or for data identified as sensitive/enforceable through technology controls on all mobile devices?	X
Mobile Security	MOS-12	Mobile Security Locking and Booting	MOS-12-1	Does your mobile device policy prohibit the circumvention of built-in security controls on mobile devices (e.g., jailbreaking or rooting) or?	X
Mobile Security	MOS-13	Mobile Security Patching	MOS-13-1	Does your BYOD policy clearly define the expectation of privacy, requirements for litigation, a discovery, and legal holds?	X
Mobile Security	MOS-14	Mobile Security Locked Screen	MOS-14-1	Does the BYOD policy clearly state the expectations over the loss of non-company data in case a wipe of the device is required?	X
Mobile Security	MOS-15	Mobile Security Operating Systems	MOS-15-1	Do you require and enforce via technical controls an automatic lockout screen for BYOD and company owned devices?	X
Mobile Security	MOS-16	Mobile Security Passwords	MOS-16-1	Do you manage all changes to mobile device operating systems, patch levels, and applications via your company's change management processes?	X
Mobile Security	MOS-17	Mobile Security Policy	MOS-17-1	Do you have password policies for enterprise issued mobile devices and/or BYOD mobile devices?	X
Mobile Security	MOS-18	Mobile Security Remote Wipe	MOS-18-1	Do you have password policies enforced through technical controls (i.e. MDM)?	X
Mobile Security	MOS-19	Mobile Security Security Policies	MOS-19-1	Do you have a policy that requires BYOD users to perform backups of specified corporate data?	X
Mobile Security	MOS-20	Mobile Security Start	MOS-20-1	Do you have a policy that requires BYOD users to prohibit the usage of unapproved application stores?	X
Security Incident	SIF-01	Discovery & Cloud Forensics	SIF-01-1	Does your IT provide remote wipe or corporate data wipe for all company accepted BYOD devices?	X
Security Incident	SIF-02	Discovery & Cloud Forensics	SIF-02-1	Does your mobile devices allow for the latest available security related patches installed upon general release by the device manufacturer or carrier?	X
Security Incident	SIF-03	Discovery & Cloud Forensics	SIF-03-1	Does your mobile device allow for remote validation to download the latest security patches by company IT personnel?	X
Security Incident	SIF-04	Discovery & Cloud Forensics	SIF-04-1	Does your BYOD policy clarify the terms and servers allowed for use or access on the BYOD-enabled device?	X
Security Incident	SIF-05	Discovery & Cloud Forensics	SIF-05-1	Does your BYOD policy specify the user roles that are allowed access via a BYOD-enabled device?	X
Supply Chain	STA-01	Management, Transparency, and Accountability	STA-01-1	Do you maintain liaisons and points of contact with local authorities in accordance with contracts and appropriate regulations?	X
Supply Chain	STA-02	Management, Transparency, and Accountability	STA-02-1	Do you have a documented security incident response plan?	X
Supply Chain	STA-03	Management, Transparency, and Accountability	STA-03-1	Do you integrate custom tenant requirements into your security incident response plans?	X
Supply Chain	STA-04	Management, Transparency, and Accountability	STA-04-1	Do you publish a roles and responsibilities document specifying what you, your tenants are responsible for during security incidents?	X
Supply Chain	STA-05	Management, Transparency, and Accountability	STA-05-1	Have you tested your security incident response plans in the last year?	X
Supply Chain	STA-06	Management, Transparency, and Accountability	STA-06-1	Are workforce personnel and external business relationships adequately informed of their responsibility, and, if required, consent and/or contractual requirements to report all information security events in a timely manner. Information security events shall be reported through pre-defined communication channels for workforce personnel and external business partners to report incidents in a timely manner. Information security events shall be reported through pre-defined communication channels for workforce personnel and external business partners to report incidents in a timely manner.	X
Supply Chain	STA-07	Management, Transparency, and Accountability	STA-07-1	Do you have predefined communication channels for workforce personnel and external business partners to report incidents in a timely manner?	X
Supply Chain	STA-08	Management, Transparency, and Accountability	STA-08-1	Does your incident response plan comply with industry standards for legally admissible chain-of-custody management processes and controls?	X
Supply Chain	STA-09	Management, Transparency, and Accountability	STA-09-1	Does your incident response package include the use of legally admissible forensic data collection and analysis techniques?	X
Supply Chain	STA-10	Management, Transparency, and Accountability	STA-10-1	Are you capable of supporting litigation holds (freeze of data from a specific point in time) for a specific tenant without freezing other tenant data?	X
Supply Chain	STA-11	Management, Transparency, and Accountability	STA-11-1	Do you enforce and attest to tenant data separation when producing data in response to legal subpoenas?	X
Supply Chain	STA-12	Management, Transparency, and Accountability	STA-12-1	Do you monitor and quantify the types, volumes, and impacts on all information security incidents?	X
Supply Chain	STA-13	Management, Transparency, and Accountability	STA-13-1	Will you share statistical information for security incident data with your tenants upon request?	X
Supply Chain	STA-14	Management, Transparency, and Accountability	STA-14-1	Do you inspect and account for data quality errors and associated risks, and work with your cloud supply chain partners to correct them?	X
Supply Chain	STA-15	Management, Transparency, and Accountability	STA-15-1	Do you design and implement controls to mitigate and contain data security risks through proper separation of duties, role-based access, and least-privilege access for all personnel within your supply chain?	X
Supply Chain	STA-16	Management, Transparency, and Accountability	STA-16-1	Do you make security incident information available to all affected customers and providers periodically through electronic methods (e.g., email)?	X
Supply Chain	STA-17	Management, Transparency, and Accountability	STA-17-1	Do you collect capacity and use data for all relevant components of your cloud service offerings?	X
Supply Chain	STA-18	Management, Transparency, and Accountability	STA-18-1	Do you provide tenants with capacity planning and use reports?	X
Supply Chain	STA-19	Management, Transparency, and Accountability	STA-19-1	Do you perform annual internal assessments of conformance and effectiveness of policies, procedures, and supporting measures and metrics?	X
Supply Chain	STA-20	Management, Transparency, and Accountability	STA-20-1	Do you select and monitor outsourced providers in compliance with laws in the country where the data is processed, stored, and transmitted?	X
Supply Chain	STA-21	Management, Transparency, and Accountability	STA-21-1	Do you select and monitor outsourced providers to ensure that they are in compliance with applicable legislation?	X
Supply Chain	STA-22	Management, Transparency, and Accountability	STA-22-1	Does legal counsel review all third-party agreements?	X
Supply Chain	STA-23	Management, Transparency, and Accountability	STA-23-1	Do third party agreements include provision for the customer's protection of information and assets?	X
Supply Chain	STA-24	Management, Transparency, and Accountability	STA-24-1	Do you have the capability to restrict data for a specific customer in the case of a failure or data loss?	X
Supply Chain	STA-25	Management, Transparency, and Accountability	STA-25-1	Do you have the capability to restrict the storage of customer data to specific countries or geographic locations?	X
Supply Chain	STA-26	Management, Transparency, and Accountability	STA-26-1	Can you provide the physical location (geography) of storage of a tenant's data upon request?	X
Supply Chain	STA-27	Management, Transparency, and Accountability	STA-27-1	Can you provide the physical location (geography) of storage of a tenant's data in advance?	X
Supply Chain	STA-28	Management, Transparency, and Accountability	STA-28-1	Do you allow tenants to define acceptable geographical locations for data routing or resource instantiation?	X
Supply Chain	STA-29	Management, Transparency, and Accountability	STA-29-1	Are systems in place to monitor for privacy breaches and notify tenants expeditiously if a privacy event may have impacted their data?	X
Supply Chain	STA-30	Management, Transparency, and Accountability	STA-30-1	Do you allow tenants to opt out of having their data/metadata accessed via inspection technology?	X
Supply Chain	STA-31	Management, Transparency, and Accountability	STA-31-1	Do you provide the client with a list and copies of all subcontracting agreements and keep this updated?	X
Supply Chain	STA-32	Management, Transparency, and Accountability	STA-32-1	Do you review the risk management and governance processes of partners to account for risks inherited from other members of that partner's supply chain?	X
Supply Chain	STA-33	Management, Transparency, and Accountability	STA-33-1	Are policies and procedures established, and supporting business processes and technical measures implemented, for maintaining complete, accurate, and relevant agreements (e.g., SLAs) between providers and customer (tenants)?	X
Supply Chain	STA-34	Management, Transparency, and Accountability	STA-34-1	Do you have the ability to measure and address non-conformance of provisions and/or terms across the entire supply chain (upstream/downstream)?	X
Supply Chain	STA-35	Management, Transparency, and Accountability	STA-35-1	Can you manage service level conflicts or inconsistencies resulting from disparate supplier relationships?	X
Supply Chain	STA-36	Management, Transparency, and Accountability	STA-36-1	Do you provide tenants with ongoing visibility and reporting of your operational Service Level Agreement (SLA) performance?	X
Supply Chain	STA-37	Management, Transparency, and Accountability	STA-37-1	Do you make standards-based information security metrics (CSA, CMM, etc.) available to your tenants?	X
Supply Chain	STA-38	Management, Transparency, and Accountability	STA-38-1	Do you provide customers with ongoing visibility and reporting your SLA performance?	X
Supply Chain	STA-39	Management, Transparency, and Accountability	STA-39-1	Do your data management policies and procedures address tenant and service level conflicts of interests?	X
Supply Chain	STA-40	Management, Transparency, and Accountability	STA-40-1	Do you review all service level agreements at least annually?	X
Supply Chain	STA-41	Management, Transparency, and Accountability	STA-41-1	Do you assure reasonable information security across your information supply chain by performing an annual review?	X
Supply Chain	STA-42	Management, Transparency, and Accountability	STA-42-1	Does your annual review include all partner/third party providers upon which your information supply chain depends?	X
Supply Chain	STA-43	Management, Transparency, and Accountability	STA-43-1	Do you mandate annual information security reviews and audits of your third party providers to ensure that all agreed upon security requirements are met?	X
Supply Chain	STA-44	Management, Transparency, and Accountability	STA-44-1	Do you have external third party services conduct vulnerability scans and periodic penetration tests on your applications and networks?	X
Supply Chain	STA-45	Management, Transparency, and Accountability	STA-45-1	Do you have anti-malware programs that support or connect to your cloud service offerings installed on all of your IT infrastructure network and systems components?	X
Supply Chain	STA-46	Management, Transparency, and Accountability	STA-46-1	Do you ensure that security threat detection systems using signatures, lists, or behavioral patterns are updated across all infrastructure components as prescribed by industry best practices?	X
Supply Chain	STA-47	Management, Transparency, and Accountability	STA-47-1	Do you conduct network layer vulnerability scans regularly as prescribed by industry best practices?	X
Supply Chain	STA-48	Management, Transparency, and Accountability	STA-48-1	Do you conduct application layer vulnerability scans regularly as prescribed by industry best practices?	X
Supply Chain	STA-49	Management, Transparency, and Accountability	STA-49-1	Do you conduct local operating system layer vulnerability scans regularly as prescribed by industry best practices?	X
Supply Chain	STA-50	Management, Transparency, and Accountability	STA-50-1	Will you make the results of vulnerability scans available to tenants at their request?	X
Supply Chain	STA-51	Management, Transparency, and Accountability	STA-51-1	Do you have a capability to patch vulnerabilities across all of your computing devices, applications, and systems?	X
Supply Chain	STA-52	Management, Transparency, and Accountability	STA-52-1	Do you inform customers (tenants) of policies and procedures and identified weaknesses if customer (tenant) data is used as part of the service and/or customer (tenant) has some shared responsibility over implementation of controls?	X
Supply Chain	STA-53	Management, Transparency, and Accountability	STA-53-1	Do you ensure that mobile code authorized before its installation and use, and the code configuration checked, to ensure that the authorized mobile code operates according to a clearly defined security policy?	X
Supply Chain	STA-54	Management, Transparency, and Accountability	STA-54-1	Is all unauthorized mobile code prevented from executing?	X

© Copyright 2014-2019 Cloud Security Alliance. All rights reserved. You may download, store, display on your computer, view, print, and link to this Cloud Security Alliance® Consensus Assessments Initiative Questionnaire (CAIQ) Version 3.1.1 at <http://www.cloudsecurityalliance.org> subject to the following: (a) The Consensus Assessments Initiative Questionnaire v3.1.1 may be used solely for your personal, informational, non-commercial use. (b) The Consensus Assessments Initiative Questionnaire v3.1.1 may not be modified or altered in any way. (c) The Consensus Assessments Initiative Questionnaire v3.1.1 may not be redistributed, and (d) the trademark, copyright, or other notices may not be removed. You may copy portions of the Consensus Assessments Initiative Questionnaire v3.1.1 as permitted by the Fair Use provisions of the United States Copyright Act, provided that you attribute the portions to the Cloud Security Alliance Cloud Consensus Assessments Initiative Questionnaire v3.1.1 (2014). If you are interested in obtaining a license to this material for other uses not addressed in the copyright notice, please contact info@cloudsecurityalliance.org.