

CONSENSUS ASSESSMENTS INITIATIVE QUESTIONNAIRE v3.1

Control Domain	Control ID	Question ID	Control Specification	Consensus Assessment Questions	Conse	ısus Asses	sment Answers	Notes
					Yes	No	Not Applicable	
Application & Interface Security Application Security	AIS-01	AIS-01.1	Applications and programming interfaces (APIs) shall be designed, developed, deployed, and tested in accordance with leading industry standards (e.g., OWASP for web applications) and adhere to applicable	Do you use industry standards (i.e. OWASP Software Assurance Maturity Model, ISO 27034) to build in security for your Systems/Software Development Lifecycle (SDLC)?		х		
		AIS-01.2	legal, statutory, or regulatory compliance obligations.	Do you use an automated source code analysis tool to detect security defects in code prior to production?	x			
		AIS-01.3		Do you use manual source-code analysis to detect security defects in code prior to production?	х			
		AIS-01.4		Do you verify that all of your software suppliers adhere to industry standards for Systems/Software Development Lifecycle (SDLC) security?			х	
		AIS-01.5		(SaaS only) Do you review your applications for security vulnerabilities and address any issues prior to deployment to production?	х			
Application &	AIS-02	AIS-02.1	Prior to granting customers access to data, assets, and information	Are all identified security, contractual, and regulatory requirements for customer access contractually addressed and remediated	x			
Interface Security Customer Access		AIS- 02.2	systems, identified security, contractual, and regulatory requirements for customer access shall be addressed.	prior to granting customers access to data, assets, and information systems? Are all requirements and trust levels for customers' access defined and documented?	V			
Application & Interface Security	AIS-03	AIS-03.1	Data input and output integrity routines (i.e., reconciliation and edit checks) shall be implemented for application interfaces and databases to	Does your data management policies and procedures require audits to verify data input and output integrity routines?	x			
Data Integrity		AIS-03.2	prevent manual or systematic processing errors, corruption of data, or misuse.	Are data input and output integrity routines (i.e. MD5/SHA checksums) implemented for application interfaces and databases to prevent manual or systematic processing errors or corruption of data?	х			
Application & Interface Security Data Security / Integrity	AIS-04	AIS-04.1	Policies and procedures shall be 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, alternation, or destruction.	Is your Data Security Architecture designed using an industry standard (e.g., CDSA, MULITSAFE, CSA Trusted Cloud Architectural Standard, FedRAMP, CAESARS)?		x		
Audit Assurance & Compliance	AAC-01	AAC-01.1	Audit plans shall be developed and maintained to address business process disruptions. Auditing plans shall focus on reviewing the	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?		х		
Audit Planning		AAC-01.2	effectiveness of the implementation of security operations. All audit activities must be agreed upon prior to executing any audits.	Does your audit program take into account effectiveness of implementation of security operations?		x		
Audit Assurance & Compliance	AAC-02	AAC-02.1	Independent reviews and assessments shall be performed at least annually to ensure that the organization addresses nonconformities of	Do you allow tenants to view your SOC2/ISO 27001 or similar third-party audit or certification reports?	х			We are in pre-assessment for ISO 27001
Independent Audits		AAC-02.2	established policies, standards, procedures, and compliance obligations.	Do you conduct network penetration tests of your cloud service infrastructure at least annually?	Х			
		AAC-02.3		Do you conduct application penetration tests of your cloud infrastructure regularly as prescribed by industry best practices and guidance?	х			
		AAC-02.4		Do you conduct internal audits at least annually?	х			
		AAC-02.5		Do you conduct independent audits at least annually?	Х			
		AAC-02.6 AAC-02.7		Are the results of the penetration tests available to tenants at their request? Are the results of internal and external audits available to tenants at their request?	X			
Audit Assurance &	AAC-03	AAC-02.7	Organizations shall create and maintain a control framework which	bo you have a program in place that includes the ability to monitor changes to the regulatory requirements in relevant	x			
Business Continuity Management &	BCR-01	BCR-01.1	A consistent unified framework for business continuity planning and plan development shall be established, documented, and adopted to ensure	Does your organization have a plan or framework for business continuity management or disaster recovery management?	х			
Operational Resilience		BCR-01.2	all business continuity plans are consistent in addressing priorities for testing, maintenance, and information security requirements.	Do you have more than one provider for each service you depend on?	x			
Business Continuity		BCR-01.3	Requirements for business continuity plans include the following:	Do you provide a disaster recovery capability?	x			
Planning		BCR-01.4	Defined purpose and scope, aligned with relevant dependencies Accessible to and understood by those who will use them	Do you monitor service continuity with upstream providers in the event of provider failure?	х			
		BCR-01.5	Owned by a named person(s) who is responsible for their review, update, and approval	Do you provide access to operational redundancy reports, including the services you rely on?	х			
		BCR-01.6	Defined lines of communication, roles, and responsibilities Detailed recovery procedures, manual work-around, and reference	Do you provide a tenant-triggered failover option?	x			
		BCR-01.7	information • Method for plan invocation	Do you share your business continuity and redundancy plans with your tenants?	х			
Business Continuity	BCR-02	BCR-02.1	Business continuity and security incident response plans shall be subject	Does your bigainization against subject to testing at planned intervals or upon significant organizational or environmental changes to possible your bigainization against organization and intervals or upon significant organization and organization against the plant of the plant	х			
Business Continuity	BCR-03	BCR-03.1	Data center utilities services and environmental conditions (e.g., water,	testing of datacenter utilities convices and environmental conditions?	х			

Management &		BCR-03.2	power, temperature and humidity controls, telecommunications, and		х			
Operational			internet connectivity) shall be secured, monitored, maintained, and					
Resilience			tested for continual effectiveness at planned intervals to ensure	Has your organization implemented environmental controls, fail-over mechanisms or other redundancies to secure utility services				
Power / Telecommunications			protection from unauthorized interception or damage, and designed with automated fail-over or other redundancies in the event of planned or	and mitigate environmental conditions?				
refecommunications			unplanned disruptions.					
Dusiness Continuity	BCR-04	BCR-04.1	· · ·					
Business Continuity Business Continuity	BCR-05	BCR-04.1 BCR-05.1	Information system documentation (e.g., administrator and user guides, Physical protection against damage from natural causes and disasters, as	personnel to ensure configuration, installation and operation of the information system? Is physical damage anticipated and are countermeasures included in the design of physical protections?	× ×			
Business Continuity	BCR-06	BCR-06.1	To reduce the risks from environmental threats, hazards, and	Are any or your data centers located in places that have a high probability/occurrence or high-impact environmental risks (noods,	X	v		
Business Continuity	BCR-07	BCR-07.1		Do you have documented policies, procedures and supporting business processes for equipment and datacenter maintenance?		^	x	Not all of these are provided
Management &		BCR-07.2	processes and technical measures implemented, for equipment	Do you have an equipment and datacenter maintenance routine or plan?	х		1	
Business Continuity	BCR-08	BCR-08.1	Protection measures shall be put into place to react to natural and man-	Are security mechanisms and redundancies implemented to protect equipment from utility service outages (e.g., power failures,	х			
Business Continuity	BCR-09	BCR-09.1	There shall be a defined and documented method for determining the	actually districtions at a 1 (х			
Management &			impact of any disruption to the organization (cloud provider, cloud					
Operational			consumer) that must incorporate the following:	Do you use industry standards and frameworks to determine the impact of any disruption to your organization (i.e. criticality of				
Resilience			Identify critical products and services	services and recovery priorities, disruption tolerance, RPO and RTO etc)?				
Impact Analysis			Identify all dependencies, including processes, applications, business partners, and third party service providers					
			Understand threats to critical products and services					
		BCR-09.2	Determine impacts resulting from planned or unplanned disruptions		х			
			and how these vary over time					
			Establish the maximum tolerable period for disruption					
			l · · · · · · · · · · · · · · · · · · ·	Does your organization conduct impact analysis pertaining to possible disruptions to the cloud service?		1		
			Establish recovery time objectives for resumption of critical products and services within their maximum tolerable period of disruption					
			Estimate the resources required for resumption					
Business Continuity	BCR-10	BCR-10.1	Policies and procedures shall be established, and supporting business	Are policies and procedures established and made available for all personnel to adequately support services operations' roles?	Х			
Business Continuity	BCR-11	BCR-11.1	Policies and procedures shall be established, and supporting business	Do you have technical capabilities to enforce tenant data retention policies?	х			
Management &		BCR-11.2	processes and technical measures implemented, for defining and	Do you have documented policies and procedures demonstrating adherence to data retention periods as per legal, statutory or regulatory compliance requirements?	х			
Operational		BCR-11.3	adhering to the retention period of any critical asset as per established	rave you imprelience oracicop or recovery mechanisms to ensure compilance with regulatory, statutory, contractual or business	х			
Resilience		BCR-11.4	policies and procedures, as well as applicable legal, statutory, or	If using virtual infrastructure, does your cloud solution include independent hardware restore and recovery capabilities?	х			
Retention Policy		BCR-11.5	regulatory compliance obligations. Backup and recovery measures shall be incorporated as part of business continuity planning and tested	If using virtual infrastructure, do you provide tenants with a capability to restore a virtual machine to a previous configuration?	х			
		BCR-11.6	accordingly for effectiveness.	Does your cloud solution include software/provider independent restore and recovery capabilities?	X			
Change Control &	CCC-01	BCR-11.7 CCC-01.1	Policies and procedures shall be established, and supporting business	Do you test your backup or redundancy mechanisms at least annually? Are policies and procedures established for management authorization for development or acquisition or new applications,	X			
Change Control &	CCC-02	CCC-02.1	External business partners shall adhere to the same policies and	Arté policies aho procedores ior change management, releasée, and cesung adequately communicated to external business	x			
Configuration		CCC-02.2	procedures for change management, release, and testing as internal	Art poss? Are posses and procedures adequately enforced to ensure external business partners comply with change management	x			
Change Control &	CCC-03	CCC-03.1	Organizations shall follow a defined quality change control and testing	Docytomaste a defined quality change control and testing process in place based on system availability, confidentiality, and		х		
Configuration		CCC-03.2	process (e.g., ITIL Service Management) with established baselines,	Is documentation describing known issues with certain products/services available?	х			
Management		CCC-03.3	testing, and release standards which focus on system availability,	Are there policies and procedures in place to triage and remedy reported bugs and security vulnerabilities for product and service	х			
Quality Testing		CCC-03.4	confidentiality, and integrity of systems and services.	Do you have controls in place to ensure that standards of quality are being met for all software development?	х			
		CCC-03.5		Do you have controls in place to detect source code security defects for any outsourced software development activities?	Х			
Change Control 9	CCC-04	CCC-03.6	Delicies and procedures shall be established and supporting business	Are mechanisms in place to ensure that all debugging and test code elements are removed from released software versions?	X	-		
Change Control & Change Control &	CCC-04	CCC-04.1 CCC-05.1	Policies and procedures shall be established, and supporting business Policies and procedures shall be established for managing the risks	Do you have controls in place to restrict and monitor the installation of unauthorized software onto your systems? To you provide tenants with documentation that describes your production change management procedures and then	Х	v		
Configuration	CCC 03	CCC 03.1	I olicies and procedures shall be established for managing the risks	rolog/rights/rosponsibilities within it?				
		CCC-05.2	associated with applying changes to:	200 your lave poincies allo procedures established for managing risks with respect to change management in production		х		
Management		CCC-05.2 CCC-05.3	associated with applying changes to: • Business-critical or customer (tenant)-impacting (physical and virtual)	20 you maye termical measures in place to ensure that changes in production environments are registered, authorized and in		x x		
Management Data Security &	DSI-01		111		х	x x		
		CCC-05.3	Business-critical or customer (tenant)-impacting (physical and virtual)	DO YOU MAYE'TECHNICAL MEASURES IN place to ensure that changes in production environments are registered, authorized and in Dobyou provide a capability of identify data and virtual machines via policy tags/metadata (e.g., tags can be used to infinit guest policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)?	x x	x x		
Data Security & Information Lifecycle Data Security &	DSI-02	CCC-05.3 DSI-01.1 DSI-01.2 DSI-02.1	Business-critical or customer (tenant)-impacting (physical and virtual) Data and objects containing data shall be assigned a classification by the data owner based on data type, value, sensitivity, and criticality to the Policies and procedures shall be established, and supporting business	Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)?	x x x	x x		
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Data Security & Information Lifecycle Data Security & Information Lifecycle Data Security & Information Data Security & Information Lifecycle Management Data Security &	DSI-02 DSI-03 DSI-04 DSI-05	DSI-01.1 DSI-01.2 DSI-02.1 DSI-02.2 DSI-03.1 DSI-03.2 DSI-04.1 DSI-04.2 DSI-04.3 DSI-05.1	Business-critical or customer (tenant)-impacting (physical and virtual) Data and objects containing data shall be assigned a classification by the data owner based on data type, value, sensitivity, and criticality to the Policies and procedures shall be established, and supporting business processes and technical measures implemented, to inventory, document, Data related to electronic commerce (e-commerce) that traverses public networks shall be appropriately classified and protected from fraudulent Policies and procedures shall be established for labeling, handling, and the security of data and objects which contain data. Mechanisms for label inheritance shall be implemented for objects that act as aggregate	Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you inventory, document, and maintain data nows for data that is resident (permanent or temporary) within the services. Can you ensure that data does not migrate beyond a defined geographical residency? Do you provide standardized (e.g. 150/150) non-proprietary encryption algorithms (5055, AES, etc.) to tenants in order for them to provide standardized (e.g. 150/150) non-proprietary encryption algorithms (5055, AES, etc.) to tenants in order for them to provide this recently provided the communicate with each other via and procedures established by the good intrastructure to ensure the security or data and objects that a capability in order to ensure production and the procedures for data? Do you follow a structured data-labeling standard (e.g., ISO 15489, Oasis XML Catalog Specification, CSA data type guidance)? Are mechanisms for label inheritance implemented for objects that act as aggregate containers for data? Do you have procedures in place to ensure production data shall not be replicated or used in non-production environments?	x x x x x x x x x x x x x x x x x x x	x x x		
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Data Security & Information Lifecycle Data Security & Information Lifecycle Data Security & Information Data Security & Information Lifecycle Management Data Security & Data Security & Data Security & Information Lifecycle Management Lifecycle Management	DSI-02 DSI-03 DSI-04 DSI-05 DSI-06 DSI-07	DSI-01.1 DSI-01.2 DSI-02.1 DSI-02.2 DSI-03.1 DSI-03.2 DSI-04.1 DSI-04.2 DSI-04.3 DSI-05.1 DSI-06.1	Business-critical or customer (tenant)-impacting (physical and virtual) Data and objects containing data shall be assigned a classification by the data owner based on data type, value, sensitivity, and criticality to the Policies and procedures shall be established, and supporting business processes and technical measures implemented, to inventory, document, Data related to electronic commerce (e-commerce) that traverses public networks shall be appropriately classified and protected from fraudulent Policies and procedures shall be established for labeling, handling, and the security of data and objects which contain data. Mechanisms for label inheritance shall be implemented for objects that act as aggregate Production data shall not be replicated or used in non-production All data shall be designated with stewardship, with assigned 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	Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you inventory, document, and maintain data nows for data that is resident (permanent or temporary) within the services. Can you ensure that data does not migrate beyond a defined geographical residency? Do you provide standardized (e.g. 150/150) non-proprietary encryption algorithms (5055, AES, etc.) to tenants in order for them to provide standardized (e.g. 150/150) non-proprietary encryption algorithms (5055, AES, etc.) to tenants in order for them to provide this recently provided the communicate with each other via and procedures established by the good intrastructure to ensure the security or data and objects that a capability in order to ensure production and the procedures for data? Do you follow a structured data-labeling standard (e.g., ISO 15489, Oasis XML Catalog Specification, CSA data type guidance)? Are mechanisms for label inheritance implemented for objects that act as aggregate containers for data? Do you have procedures in place to ensure production data shall not be replicated or used in non-production environments?	x x x x x x x x x x x x x x x x x x x	x x x		
Data Security & Information Lifecycle Data Security & Information Lifecycle Data Security & Information Data Security & Information Lifecycle Management Data Security & Data Security & Data Security & Information Lifecycle Management Data Security & Data Security & Information Lifecycle	DSI-02 DSI-03 DSI-04 DSI-05 DSI-06 DSI-07	DSI-01.1 DSI-01.2 DSI-02.1 DSI-02.2 DSI-03.1 DSI-03.2 DSI-04.1 DSI-04.2 DSI-04.3 DSI-05.1 DSI-06.1	Business-critical or customer (tenant)-impacting (physical and virtual) Data and objects containing data shall be assigned a classification by the data owner based on data type, value, sensitivity, and criticality to the Policies and procedures shall be established, and supporting business processes and technical measures implemented, to inventory, document, Data related to electronic commerce (e-commerce) that traverses public networks shall be appropriately classified and protected from fraudulent Policies and procedures shall be established for labeling, handling, and the security of data and objects which contain data. Mechanisms for label inheritance shall be implemented for objects that act as aggregate Production data shall not be replicated or used in non-production All data shall be designated with stewardship, with assigned Policies and procedures shall be established with supporting business processes and technical measures implemented for the secure disposal	Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you inventory, document, and mantain data nows for data that is resident (permanent or temporary) within the services capability to you inventory and infracts useful and custome? Can you ensure that data does not migrate beyond a defined geographical residency? Do you provide standardized (e.g., ISO/IEC) non-proprietary encryption algorithms (SDES, AES, etc.) to tenants in order for them to polyod danize open in the mountain of the mount of the mountain of the mounta	x x x x x x x x x x x x x x x x x x x	x x x		
Data Security & Information Lifecycle Data Security & Information Lifecycle Data Security & Information Data Security & Information Lifecycle Management Data Security & Data Security & Data Security & Information Lifecycle Management Management Data Security & Data Security & Information Lifecycle Management	DSI-02 DSI-03 DSI-04 DSI-05 DSI-06 DSI-07	DSI-01.1 DSI-01.2 DSI-02.1 DSI-02.2 DSI-02.2 DSI-03.1 DSI-03.2 DSI-04.1 DSI-04.2 DSI-04.3 DSI-05.1 DSI-06.1 DSI-07.1	Business-critical or customer (tenant)-impacting (physical and virtual) Data and objects containing data shall be assigned a classification by the data owner based on data type, value, sensitivity, and criticality to the Policies and procedures shall be established, and supporting business processes and technical measures implemented, to inventory, document, Data related to electronic commerce (e-commerce) that traverses public networks shall be appropriately classified and protected from fraudulent Policies and procedures shall be established for labeling, handling, and the security of data and objects which contain data. Mechanisms for label inheritance shall be implemented for objects that act as aggregate Production data shall not be replicated or used in non-production All data shall be designated with stewardship, with assigned 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	Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Can you ensure that data does not migrate beyond a defined geographical residency? Do you provide standardized (e.g., TSO/TEC) non-proprietary encryption algorithms (sucs), Acs, etc.) to tenants in order for them to bord dimize open ferical protection of the transmission of the ensure that a fine transmission of the ensure that the ensure tha	x x x x x x x x x x x x x x x x x x x	x x x		
Data Security & Information Lifecycle Data Security & Information Lifecycle Data Security & Information Data Security & Information Lifecycle Management Data Security & Data Security & Data Security & Information Lifecycle Management Data Security & Data Security & Information Lifecycle Management Secure Disposal	DSI-02 DSI-03 DSI-04 DSI-05 DSI-06 DSI-07	DSI-07.2 DSI-07.2 DSI-07.2 DSI-01.1 DSI-01.2 DSI-02.1 DSI-02.2 DSI-03.1 DSI-03.2 DSI-04.1 DSI-04.2 DSI-04.3 DSI-05.1 DSI-07.1	Business-critical or customer (tenant)-impacting (physical and virtual) Data and objects containing data shall be assigned a classification by the data owner based on data type, value, sensitivity, and criticality to the Policies and procedures shall be established, and supporting business processes and technical measures implemented, to inventory, document, Data related to electronic commerce (e-commerce) that traverses public networks shall be appropriately classified and protected from fraudulent Policies and procedures shall be established for labeling, handling, and the security of data and objects which contain data. Mechanisms for label inheritance shall be implemented for objects that act as aggregate Production data shall not be replicated or used in non-production All data shall be designated with stewardship, with assigned 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 computer forensic means.	Do you provide a capability to identify data and virtual machines via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you inventory, document, and manufall data nows for data trust is residency? Can you ensure that data does not migrate beyond a defined geographical residency? Do you provide standardized (e.g., TSO/Itc.) non-proprietary encryption algorithms (SDES, AES, etc.) to tenants in order or them to be you dimize opeif étici yptidiri fletinodurighes any time you minas fructure to ensure via anti-biones and procedures estandshero by data adventing and manufing in order to ensure the excurry or data and objects that act as aggregate containers for data? Do you follow a structured data-labeling standard (e.g., ISO 15489, Oasis XML Catalog Specification, CSA data type guidance)? Are mechanisms for label inheritance implemented for objects that act as aggregate containers for data? Do you have procedures in place to ensure production data shall not be replicated or used in non-production environments? Are the responsibilities regarding data stewardship defined, assigned, documented, and communicated? Do you support the secure deletion (e.g., degaussing/cryptographic wiping) of archived and backed-up data? Can you provide a published by our assets in terms of business criticality, service-level expectations, and operational continuity requirements? Do you classify your assets in terms of business criticality, service-level expectations, and operational continuity requirements?	x x x x x x x x x x x x x x x x x x x	x x x x		
Data Security & Information Lifecycle Data Security & Information Lifecycle Data Security & Information Data Security & Information Data Security & Information Lifecycle Management Data Security & Data Security & Data Security & Information Lifecycle Management Security & Information Lifecycle Management Security & Information Lifecycle Management Security Disposal Datacenter Security	DSI-02 DSI-03 DSI-04 DSI-05 DSI-06 DSI-07	DSI-07.2 DSI-07.2 DSI-07.1	Business-critical or customer (tenant)-impacting (physical and virtual) Data and objects containing data shall be assigned a classification by the data owner based on data type, value, sensitivity, and criticality to the Policies and procedures shall be established, and supporting business processes and technical measures implemented, to inventory, document, Data related to electronic commerce (e-commerce) that traverses public networks shall be appropriately classified and protected from fraudulent Policies and procedures shall be established for labeling, handling, and the security of data and objects which contain data. Mechanisms for label inheritance shall be implemented for objects that act as aggregate Production data shall not be replicated or used in non-production All data shall be designated with stewardship, with assigned 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 computer forensic means. Assets must be classified in terms of business criticality, service-level	Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Do you provide a capability to identify data and hardware via policy tags/metadata/hardware tags (e.g., TXT/TPM, VN-Tag, etc.)? Can you ensure that data does not migrate beyond a defined geographical residency? Do you provide standardized (e.g., TSO/TEC) non-proprietary encryption algorithms (sucs), Acs, etc.) to tenants in order for them to bord dimize open ferical protection of the transmission of the ensure that a fine transmission of the ensure that the ensure tha	x x x x x x x x x x x x x x x x x x x	x x x		

Datacenter Security	DCS-03	DCS-03.1	Automated equipment identification shall be used as a method of	Do you have a capability to use system geographic location as an authentication factor? Is automated equipment identification used as a metriod to validate connection authentication integrity based on known	x		
Equipment		DCS-03.2	connection authentication. Location-aware technologies may be used to	is automated equipment identification used as a method to validate connection authentication integrity based on known	x		
Datacenter Security	DCS-04	DCS-04.1	Authorization must be obtained prior to relocation or transfer of	Is authorization obtained prior to relocation or transfer of hardware, software, or data to an offsite premises?	,		
•			·				
Datacenter Security	DCS-05	DCS-05.1	Policies and procedures shall be established for the secure disposal of	Can you provide tenants with your asset management policies and procedures?	x		
Datacenter Security	DCS-06	DCS-06.1	Policies and procedures shall be established, and supporting business	1	(
Policy		DCS-06.2	processes implemented, for maintaining a safe and secure working	cartylog provide evolution of the social personalities and necessity of personal p	·		
Datacenter Security	DCS-07	DCS-07.1	Ingress and egress to secure areas shall be constrained and monitored by	The physical access control mechanisms (e.g. CCTV cameras, ID cards, checkpoints) in place to secure, constrain and monitor	x		
Datacenter Security	DCS-08	DCS-08.1	Ingress and egress points such as service areas and other points where	Are nigress and ingress points? Are nigress and ingress points, such as service areas and other points where unauthorized personnel may enter the premises,	,		
				maniformal constrained and included from data storage and success?			
Datacenter Security	DCS-09	DCS-09.1		Do you restrict physical access to information assets and functions by users and support personnel?	¢		
Encryption & Key	EKM-01	EKM-01.1	Keys must have identifiable owners (binding keys to identities) and there	Do you have key management policies binding keys to identifiable owners?	(
Encryption & Key	EKM-02	EKM-02.1	Policies and procedures shall be established for the management of	Do you have a capability to allow creation of unique encryption keys per tenant?	c		
Management		EKM-02.2	cryptographic keys in the service's cryptosystem (e.g., lifecycle	Do you have a capability to manage encryption keys on behalf of tenants?	x		
Key Generation		EKM-02.3	management from key generation to revocation and replacement, public	Do you maintain key management procedures?	,		
		EKM-02.4	has defended by the contract of the contract decision and also debugged as		` ,		
				Do you have documented ownership for each stage of the lifecycle of encryption keys?	x		
		EKM-02.5	access controls in place for secure key generation, and exchange and	Do you utilize any third party/open source/proprietary frameworks to manage encryption keys?	(
Encryption & Key	EKM-03	EKM-03.1	Policies and procedures shall be established, and supporting business	Do you encrypt tenant data at rest (on disk/storage) within your environment?	(
Management		EKM-03.2	processes and technical measures implemented, for the use of encryption	Do you encrypt tenant data at rest (on disk/storage) within your environment? Do you reverage encryption to protect data and virtual machine images during transport across and between networks and	(
Encryption		EKM-03.3		Do you have documentation establishing and defining your encryption management policies, procedures, and guidelines?	(
	EKM-04	EKM-04.1			·		
Encryption & Key	LKIVI-04			Do you have platform and data appropriate encryption that uses open/validated formats and standard algorithms?	<u> </u>	-	
Management		EKM-04.2	open/validated formats and standard algorithms shall be required. Keys	Are your encryption keys maintained by the cloud consumer or a trusted key management provider?	(
Storage and Access		EKM-04.3	shall not be stored in the cloud (i.e. at the cloud provider in question), but	Do you store encryption keys in the cloud?	x		
		EKM-04.4	maintained by the cloud consumer or trusted key management provider.	Do you have separate key management and key usage duties? Do you have adduntenced information security baselines for every component of your infrastructure (e.g., hypervisors, operating	x		
Governance and Risk	GRM-01	GRM-01.1	Baseline security requirements shall be established for developed or	po you have documented information security basefines for every component of your infrastructure (e.g., hypervisors, operating	(
Management	J 01	GRM-01.2	acquired, organizationally-owned or managed, physical or virtual,	Customs routers DNS convers etc.\?	•		
		GKIVI-01.2		Do you have the capability to continuously monitor and report the compliance of your infrastructure against your information			
Baseline			applications and infrastructure system, and network components that	security baselines?			
Requirements			comply with applicable legal, statutory, and regulatory compliance		(
Governance and Risk	GRM-02	GRM-02.1	Risk assessments associated with data governance requirements shall be	Tools your organization's risk assessments take into account awareness or data residency, legal and statutory requirements for retention periods and data protection and classification?	·		
Management		GRM-02.2	conducted at planned intervals and shall consider the following:	Do you conduct risk assessments associated with data governance requirements at least once a year?	(
Governance and Risk	GRM-03	GRM-03.1	Managers are responsible for maintaining awareness of, and complying	Are your technical, business, and executive managers responsible for maintaining awareness or and compliance with security	,		
Governance and Risk	GRM-04	GRM-04.1		Do you provide tenants with documentation describing your Information Security Management Program (ISMP)?	`		
	GRIVI-04						
Management		GRM-04.2		Do you review your Information Security Management Program (ISMP) at least once a year? Do executive and line management take formal action to support information security through cleany-documented	(
Governance and Risk	GRM-05	GRM-05.1	Executive and line management shall take formal action to support	Aire ytion into matter steering the entires have available to all impacted personner and business partners, authorized	x		
Governance and Risk	GRM-06	GRM-06.1	Information security policies and procedures shall be established and	l	x		
Management		GRM-06.2	made readily available for review by all impacted personnel and external	Arre mourntablor section cyponic fees attinuor radio by tine or gaint basiofies to assine served the section control of the	(
Policy		GRM-06.3	business relationships. Information security policies must be authorized	Do you have agreements to ensure your providers adhere to your information security and privacy policies?	(
		GRM-06.4		Can you provide evidence of due diligence mapping of your controls, architecture, and processes to regulations and/or standards?	v		
		GRM-06.5	role or function) and supported by a strategic business plan and an		. ^		
	0511.05			Do you disclose which controls, standards, certifications, and/or regulations you comply with?	<u> </u>		
Governance and Risk	GRM-07	GRM-07.1		Is a formal disciplinary or sanction policy established for employees who have violated security policies and procedures?	(
Management		GRM-07.2	who have violated security policies and procedures. Employees shall be	Are employees made aware of what actions could be taken in the event of a violation via their policies and procedures?	(
Governance and Risk	GRM-08	GRM-08.1	Risk assessment results shall include updates to security policies,	bo fisk assessment results include updates to security policies, procedures, standards, and controls to ensure they remain relevant	·		
Governance and Risk	GRM-09	GRM-09.1	The organization's business leadership (or other accountable business	Do you notify your tenants when you make material changes to your information security and/or privacy policies?	(
Management		GRM-09.2	role or function) shall review the information security policy at planned	Do you perform, at minimum, annual reviews to your privacy and security policies?	,		
	CDM 10		Aligned with the enterprise-wide framework, formal risk assessments	are normal risk assessments angined with the enterprise-wide transmework and performed at least annually, or at planned intervals,			
Governance and Risk	GRM-10	GRM-10.1		datassas in a the libelih and and impact of all identified risks using a untitative and acceptation and the data	(
Management		GRM-10.2		Is the likelihood and impact associated with inherent and residual risk determined independently, considering all risk categories?	(
Governance and Risk	GRM-11	GRM-11.1	Risks shall be mitigated to an acceptable level. Acceptance levels based	Do you have a documented, organization-wide program in place to manage risk?	<u> </u>		
Management		GRM-11.2	on risk criteria shall be established and documented in accordance with	Do you make available documentation of your organization-wide risk management program? Opon termination of contract or pushiess relationship, are employees and pushiess partners adequately informed or their	x		
Human Resources	HRS-01	HRS-01.1	Upon termination of workforce personnel and/or expiration of external	opon termination or contract or business relationship, are employees and business partners adequately informed or their	(
Asset Returns	71113 01			Do you have asset return procedures outlining how assets should be returned within an established period?	·		
	1400.00	HRS-01.2		Do you have asset return procedures outlining now assets should be returned within an established period?	(
Human Resources	HRS-02	HRS-02.1	Pursuant to local laws, regulations, ethics, and contractual constraints, all	abind newton and in a transfer to be also and transfer to a large transfer transfer to a large transfer	(
Human Resources	HRS-03	HRS-03.1	Employment agreements shall incorporate provisions and/or terms for	Do your employment agreements incorporate provisions and/or terms in adherence to established information governance and	(
Employment		HRS-03.2	adherence to established information governance and security policies	workforce personnel user access to corporate facilities, resources, and assets?	·		
Human Resources	HRS-04	HRS-04.1		Are documented policies, procedures, and guidelines in place to govern change in employment and/or termination?	(
Employment		HRS-04.2	change in employment procedures shall be assigned, documented, and	Do the above procedures and guidelines account for timely revocation of access and return of assets?	,		
	LLDC OF			Are policies and procedures established and measures implemented to strictly limit access to your sensitive data and tenant data.	<u> </u>		
Human Resources	HRS-05	HRS-05.1	Policies and procedures shall be established, and supporting business	Fremequitehlents 100 m high-disclossife on Continuentiallity agreements menetality intelorgistization is nebus high me protection bir bacarie	(
Human Resources	HRS-06	HRS-06.1	Requirements for non-disclosure or confidentiality agreements reflecting	and approximated details identified desurgented and reviewed at planned intervals?	(
Human Resources	HRS-07	HRS-07.1	Roles and responsibilities of contractors, employees, and third-party	Do you provide tenants with a role definition document clarifying your administrative responsibilities versus those of the tenant?	(
Human Resources	HRS-08	HRS-08.1	Policies and procedures shall be established, and supporting business	Too you have policies and procedures in place to define allowances and conditions for permitting usage of organizationally-owned	(
Acceptable Use		HRS-08.2		Do you define allowance and conditions for BYOD devices and its applications to access corporate resources?	(
	HRS-09	HRS-09.1	A security awareness training program shall be established for all	Do you define allowance and conditions for BYOD devices and its applications to access corporate resources? Do you provide a formal, role-based, security awareness training program for cloud-related access and data management issues	·		
Human Resources	FIN3-09		A security awareness training program shall be established for all	Lo a moulti tanager pationality aloud daliver modal cogregation of duties implications and conflicts of interest) for all parsons	X	-	
Training / Awareness		HRS-09.2		Do you specifically train your employees regarding their specific role and the information security controls they must fulfill?	(
		HRS-09.3	mandated when appropriate. All individuals with access to organizational	Do you document employee acknowledgment of training they have completed?	x		
		HRS-09.4	data shall receive appropriate awareness training and regular updates in	and the completion of the training program(s) considered a prefequisite for acquilling and maintaining access to	·		
		HRS-09.5		Are personnel trained and provided with awareness programs at least once a year?	(
		HRS-09.6	professional function relative to the organization.		(
Human Resources	HRS-10	HRS-10.1	All personnel shall be made aware of their roles and responsibilities for:	Are administrators and data stewards properly educated on their legal responsibilities with regard to security and data integrity? Are personner mornied or their responsibilities for maintaining awareness and compilance with published security policies,	. 		
Duman Nessarces			p. 3 3. met and a made and e of their foles and responsibilities for.	Paracaduras standards and analicable regulatory requirements?	·	<u> </u>	

Hann Dannanaileilite		LIDS 40.2	1 - Marintaining announced and according to the attablished actions and			T	I	
User Responsibility		HRS-10.2	Maintaining awareness and compliance with established policies and proceedures and applicable logal, statutory, or regulatory compliance.	Are personnel informed of their responsibilities for maintaining a safe and secure working environment?	Х			
	LIDC 44	HRS-10.3	procedures and applicable legal, statutory, or regulatory compliance	Are personnel informed of their responsibilities for ensuring that equipment is secured and not left unattended?	X			
Human Resources	HRS-11	HRS-11.1	Policies and procedures shall be established to require that unattended	Are all computers and laptops configured such that there is lockout screen after a pre-defined amount of time? Are there policies and procedures to ensure that unattended workspaces do not have openly visible (e.g., on a desktop) sensitive	Х			
Workspace	1454.04	HRS-11.2	workspaces do not have openly visible (e.g., on a desktop) sensitive	do you restrict, rog, and monitor access to your information security management systems (e.g., hypervisors, hirewans,	X			
Identity & Access	IAM-01	IAM-01.1	Access to, and use of, audit tools that interact with the organization's	undershilituseseness network seiffers ADIs ato 12	Х			
Management		IAM-01.2	information systems shall be appropriately segmented and restricted to	Do you monitor and log privileged access (e.g., administrator level) to information security management systems?	Х			
Identity & Access	IAM-02	IAM-02.1	User access policies and procedures shall be established, and supporting	Do you have controls in place ensuring timely removal of systems access that is no longer required for business purposes?	х			
Management		IAM-02.2	business processes and technical measures implemented, for ensuring	adharance to local, statutor, as requisters, correliance requirements.	х			
User Access Policy		IAM-02.3	appropriate identity, entitlement, and access management for all internal	ماناناهم		х		
		IAM-02.4	corporate and customer (tenant) users with access to data and	Do you have procedures and technical measures in place for data access segmentation in multi-tenant system architectures?	х			
		IAM-02.5	organizationally-owned or managed (physical and virtual) application interfaces and infrastructure network and systems components. These	Do you enforce data access permissions based on the rules of Authentication, Authorization and Accountability (AAA)? To your poincies and procedures incorporate security controls for establishing higher levels or assurance for critical business case.	Х			
		IAM-02.6	policies, procedures, processes, and measures must incorporate the	Programment and track the speed with winch you are able to remove systems access that is no longer required for business	х			
		IAM-02.7	c	ourocco?		х		
Identity & Access	IAM-03	IAM-03.1	User access to diagnostic and configuration ports shall be restricted to	Is user access to diagnostic and configuration ports restricted to authorized individuals and applications?	х			
Identity & Access	IAM-04	IAM-04.1	Policies and procedures shall be established to store and manage identity	Do you manage and store the identity of all personnel who have access to the IT infrastructure, including their level of access?	х			
Management		IAM-04.2	information about every person who accesses IT infrastructure and to	Do you manage and store the user identity of all personnel who have network access, including their level of access?	х			
Identity & Access	IAM-05	IAM-05.1	User access policies and procedures shall be established, and supporting	Do you provide tenants with documentation on how you maintain segregation of duties within your cloud service offering? Are controls in place to prevent unauthorized access to your application, program, or object source code, and assure it is restricted.	х			
Identity & Access	IAM-06	IAM-06.1	Access to the organization's own developed applications, program, or	#AF explicit controls in prace to prevent annuationized access to your application, program, or object source code, and assure it is restricted #AF explication; program, or object source code, and assure it is	х			
Management		IAM-06.2	object source code, or any other form of intellectual property (IP), and	energiated to puthorized personnel only?	х			
Identity & Access	IAM-07	IAM-07.1	The identification, assessment, and prioritization of risks posed by	Does your organization conduct third-party unauthorized access risk assessments?	х			
Management		IAM-07.2	business processes requiring third-party access to the organization's					
Third Party Access			information systems and data shall be followed by coordinated	Are preventive, detective corrective compensating controls in place to mitigate impacts of unauthorized or inappropriate access?				
			application of resources to minimize, monitor, and measure likelihood		х	<u> </u>		
Identity & Access	IAM-08	IAM-08.1	Policies and procedures are established for permissible storage and	Do you document now you grant, approve and enforce access restrictions to tenant/customer credentials following the fules of		х		
Management		IAM-08.2	access of identities used for authentication to ensure identities are only	Sase of it in the street of th	х			
User Access		IAM-08.3	accessible based on rules of least privilege and replication limitation only	Do you limit identities' replication only to users explicitly defined as business necessary?	х			
Identity & Access	IAM-09	IAM-09.1	Provisioning user access (e.g., employees, contractors, customers	boes your management provision the authorization and restrictions for user access (e.g., employees, contractors, customers	х			
Management		IAM-09.2	(tenants), business partners and/or supplier relationships) to data and	by yout photograph or users with reginarhate ninerest access (e.g., emproyees, comractors, culsioniners (deniatius)),		х		
Identity & Access	IAM-10	IAM-10.1	User access shall be authorized and revalidated for entitlement	busyour requirees pendional and literal tandata and annual nounces geramens and indivisions and evidence in the literal translations and individual translations are individual translations.	х			
Management		IAM-10.2	appropriateness, at planned intervals, by the organization's business	Do you collect evidence to demonstrate that the policy (see question IAM-10.1) has been enforced?		x		
User Access Reviews		IAM-10.3	leadership or other accountable business role or function supported by	Do you ensure that remediation actions for access violations follow user access policies?	х			
		IAM-10.4	evidence to demonstrate the organization is adhering to the rule of least	will your snare user enullement and remediation reports with your tenants, it mappropriate access may have been allowed to tenant	х			
Identity & Access	IAM-11	IAM-11.1	Timely de-provisioning (revocation or modification) of user access to data	13 timely deprovisioning, revocation, or modification of user access to the organizations systems, information assets, and data	х			
Management		IAM-11.2	and organizationally-owned or managed (physical and virtual)	is ally charge unaser access status intended to houde continuous continuous mempoyment; contract or agreeiment; charige or eimployment	x			
Identity & Access	IAM-12	IAM-12.1	Internal corporate or customer (tenant) user account credentials shall be	Do you support use of, or integration with, existing customer-based Single Sign On (SSO) solutions to your service?	x			
Management		IAM-12.2	restricted as per the following, ensuring appropriate identity,	Do you use open standards to delegate authentication capabilities to your tenants?		x		
User ID Credentials		IAM-12.3	entitlement, and access management and in accordance with established	THE VIEW OF THE PROPERTY OF TH	x			
		IAM-12.4	policies and procedures:	Do you have a Policy Enforcement Point capability (e.g., XACML) to enforce regional legal and policy constraints on user access?		x		
		IAM-12.5	Identity trust verification and service-to-service application (API) and	Do you have a Policy Enforcement Point capability (e.g., XACML) to enforce regional legal and policy constraints on user access? Do you have an identity management system tenabiling classification of data for a tenant, in place to enable both role-based and	х			
		IAM-12.6	information processing interoperability (e.g., SSO and Federation)	Do you provide tenants with strong (multifactor) authentication options (e.g., digital certs, tokens, biometrics, etc.) for user access?		x		
		IAM-12.7	Account credential lifecycle management from instantiation through	Do you allow tenants to use third-party identity assurance services?	x			
		IAM-12.8	revocation	Do you support password (e.g., minimum engri, age, mistory, complexity) and account tockout (e.g., tockout threshold, tockout	x			
		IAM-12.9	Account credential and/or identity store minimization or re-use when	Do you allow tenants/customers to define password and account lockout policies for their accounts?	v v			
		IAM-12.10	feasible	Do you support the ability to force password changes upon first logon?	^ v			
		IAM-12.11	Adherence to industry acceptable and/or regulatory compliant	Do you have mechanisms in place for unlocking accounts that have been locked out (e.g., sen-service via email, defined chanlenge	^ v			
Identity & Access	IAM-13	IAM-13.1	Authentication, authorization, and accounting (AAA) rules (e.g., Utility programs capable of potentially overriding system, object,	Are access to unity plograms used to manage virtualized partitions (e.g. snutdown, clone, etc.) appropriately restricted and	^ v			
Infrastructure &	IVS-01	IVS-01.1	Higher levels of assurance are required for protection, retention, and	APP iteration to the first form of the first state	^	l _v		
Virtualization	775 01	IVS-01.1	lifecycle management of audit logs, adhering to applicable legal,	Is physical and logical user access to audit logs restricted to authorized personnel?	v	^		
Security		IVS-01.3	statutory, or regulatory compliance obligations and providing unique user	Is physical and logical user access to audit logs restricted to authorized personnel? Can you provide evidence that due dingence mapping or regulations and standards to your controls/architecture/processes has	^	l _v		
Audit Logging /		IVS-01.3	access accountability to detect potentially suspicious network behaviors	Are audit logs centrally stored and retained?	v	<u> ^</u>		
Intrusion Detection		IVS-01.4	and/or file integrity anomalies, and to support forensic investigative	Are audit logs centrally stored and retained? Are audit logs reviewed on a regular basis for security events (e.g., with automated tools)?	^	\		
	IVS-02		The provider shall ensure the integrity of all virtual machine images at all		v	<u> ^</u>		
Infrastructure & Virtualization	TV 3-02	IVS-02.1	times. Any changes made to virtual machine images must be logged and	Do you log and alert any changes made to virtual machine images regardless of their running state (e.g., dormant, off or running)? Does the virtual machine management immastructure include a tamper addit or software integrity function to detect changes to the	^ v	1		
Security			an alert raised regardless of their running state (e.g., dormant, off, or	Ariët/ranges intake to thought makes, or hoving or an image and subsequent valuation or the image's integrity, made	X	1	<u></u>	
	11/5-03			in mediatah, ayailahla ta ayatamaya thyayah alaatyania mathada (a a magtala ay alagta)?			X	
Infrastructure &	IVS-03			Do you use a synchronized time-service protocol (e.g., NTP) to ensure all systems have a common time reference? Do you provide documentation regarding what levels of system (e.g., network, storage, memory, 170, etc.) oversubscription you	X	1		
Infrastructure &	IVS-04	IVS-04.1	The availability, quality, and adequate capacity and resources shall be	maintain and under what sire unsetances (see parise)		X		
Virtualization		IVS-04.2	planned, prepared, and measured to deliver the required system	Do you restrict use of the memory oversubscription capabilities present in the hypervisor? Does your system's capacity requirements take into account current, projected, and anticipated capacity needs for an systems used	Х	1		
Security / Pasource		IVS-04.3	performance in accordance with legal, statutory, and regulatory	ts systeid pertoinnance industried and curred in order to continuously meet regulatory, contractual, and business requirements for	Х			
Capacity / Resource	1) (C. 0.7	IVS-04.4	compliance obligations. Projections of future capacity requirements shall	obt seconity winnerability assists mentitoots this enrices accommodate the virtualization technologies being used (e.g., virtualization)	Х			
Infrastructure &	IVS-05	IVS-05.1	Implementers shall ensure that the security vulnerability assessment	POLYOUT TO ASSOCIATION OF THE PROPERTY OF THE		-	X	
Infrastructure &	IVS-06	IVS-06.1	Network environments and virtual instances shall be designed and	vous vistualized colution?			Х	
Virtualization			configured to restrict and monitor traffic between trusted and untrusted	Do you regularly update network architecture diagrams that include data flows between security domains/zones? Do you regularly review for appropriateness the anowed access/connectivity (e.g., mewan rules) between security domains/zones.	х	1		
Security		IVS-06.3	connections. These configurations shall be reviewed at least annually,	audition to a notification of the state of t	х	1		
Network Security		IVS-06.4	and supported by a documented justification for use for all allowed	Are all firewall access control lists documented with business justification? Are operating systems naruened to provide only the necessary ports, protocols, and services to meet business needs using	х	1		
Infrastructure &	IVS-07	IVS-07.1	Each operating system shall be hardened to provide only necessary ports,	tophainel controls (a a antiview file interests manitoring and logging) or next of their bosoline build standard or tomalate?	х			

Infrastructure &	IVS-08	IVS-08.1	Production and non-production environments shall be separated to	For your SaaS or PaaS offering, do you provide tenants with separate environments for production and test processes?	х			<u> </u>
Virtualization		IVS-08.2	prevent unauthorized access or changes to information assets.	For your laaS offering, do you provide tenants with guidance on how to create suitable production and test environments?			х	
Security		IVS-08.3	Separation of the environments may include: stateful inspection firewalls,	Do you logically and physically segregate production and non-production environments?	x			
Infrastructure &	IVS-09	IVS-09.1	Multi-tenant organizationally-owned or managed (physical and virtual)	Are system and network environments protected by a mewan or virtual mewan to ensure business and customer security	v			
Virtualization	173 03	IVS-09.2	applications, and infrastructure system and network components, shall	সাঁহ খুঁড়াহেলা বাবি network environments protected by a firewall or virtual firewall to ensure compilance with legal, regulatory and				
				Fraver you'll represent the necessary measures for the appropriate isolation and segmentation or tenants access to infrastructure	X			
Security		IVS-09.3	be designed, developed, deployed, and configured such that provider and	postyoria nade internation of monography is eighbern or ethorypic blistion der dicia subcratuar data may not provide to may ingre debianation of the complete complet	х			
Segmentation		IVS-09.4	customer (tenant) user access is appropriately segmented from other	Hitesystendantnetworkersing and the protection of energy consumer and such that data may be produced for a single terial only, with system data that data may be produced for a single terial only, with system data that data may be produced for a single terial only, with the produced for a single terial only, and the produced for a single terial of the pro	х			
		IVS-09.5	tenant users, based on the following considerations:	Are system and network environments protected by a mewan of virtual mewan to ensure protection and isolation of sensitive	x			
Infrastructure &	IVS-10	IVS-10.1	Secured and encrypted communication channels shall be used when	Are secured and encrypted communication channels used when migrating physical servers, applications, or data to virtual servers?	х			
Virtualization		IVS-10.2	migrating physical servers, applications, or data to virtualized servers and,	Do you use a network segregated from production-level networks when migrating physical servers, applications, or data to virtual	x			
Infrastructure &	IVS-11	IVS-11.1	Access to all hypervisor management functions or administrative	puryour lestrict personner access to an hypervisor management functions or administrative consoles for systems hosting virtualized	v			
				Are poincles artur procedures escablished aind mechanisms connight ed and impremented to procedure established aind mechanisms connight ed and impremented to procedure whereas the whork the conditions and the contract of t	X			
Infrastructure &	IVS-12	IVS-12.1	Policies and procedures shall be established, and supporting business	 Are poncies and procedures escapitshed and the cradisms inquerificated to ensure wireless security security are enabled with strong	х			
Virtualization		IVS-12.2	processes and technical measures implemented, to protect wireless	Are policies fano phocetion tis establishedraino innechalisins implementeulto proced wire iess nection k environments and the control in the	х			
Security		IVS-12.3	network environments, including the following:		х			
Infrastructure &	IVS-13	IVS-13.1	Network architecture diagrams shall clearly identify high-risk	poryour network the critect (are analyzatris clearly identify ntignalisk environments at the data now) and may have regar compliance	x			
Virtualization		IVS-13.2	environments and data flows that may have legal compliance impacts.	DO YOU implement technical measures and apply defense-in-depth techniques (e.g., deep packet analysis, trainc throtting and		x		
Interoperability &	IPY-01	IPY-01.1	The provider shall use open and published APIs to ensure support for	Do you publish a list of all APIs available in the service and indicate which are standard and which are customized?			Y	
Interoperability &	IPY-02	IPY-02.1	All structured and unstructured data shall be available to the customer	Is unstructured customer data available on request in an industry-standard format (e.g., .doc, .xls, or .pdf)?	v		A	
				is unstructured customer data available on request in an industry-standard format (e.g., .doc, .xis, or .pul)? Do you provide policies and procedures (i.e. service rever agreements) governing the use or Aris for interoperability between your	X			
Interoperability &	IPY-03	IPY-03.1	Policies, procedures, and mutually-agreed upon provisions and/or terms	consiss and third north confications?	×			
Portability		IPY-03.2	shall be established to satisfy customer (tenant) requirements for service-	If using virtual infrastructure, do you allow virtual machine images to be downloaded and ported to a new cloud provider? Do you provide policies and procedures (i.e. service lever agreements) governing the migration of application data to and from your		X		
Policy & Legal		IPY-03.3	to-service application (API) and information processing interoperability,		х			
Interoperability &	IPY-04	IPY-04.1	The provider shall use secure (e.g., non-clear text and authenticated)	Stata import, uata export, and service management be conducted over secure (e.g., non-clear text and authenticated), industry	х			
Portability		IPY-04.2	standardized network protocols for the import and export of data and to	poryote photoaction and portability methods with accumentation detailing the relevant interoperability and portability network protocol	x			
Interoperability &	IPY-05	IPY-05.1	The provider shall use an industry-recognized virtualization platform and	pto yourdsetant moussing-hecognized virtualization platform and standard virtualization formats (e.g., over) to help ensure	x			
Portability		IPY-05.2	standard virtualization formats (e.g., OVF) to help ensure interoperability,	ir tising virtuith nastructure, are machine images made available to the customer in a way that would allow the customer to	v			
Virtualization			and shall have documented custom changes made to any hypervisor in	por your naive aucumenteur bascom chaffiges naace to any tippervisor in use, and an solution-specific virtualization nooks available for	^			
	1,000 01	IPY-05.3		euctomor equipus?	×			M/a da cata da
Mobile Security	MOS-01	MOS-01.1	Anti-malware awareness training, specific to mobile devices, shall be	Do you provide anti-malware training specific to mobile devices as part of your information security awareness training? To you document and make available lists or approved application stores for mobile devices accessing or storing company data			Х	We do not provide mobile
Mobile Security	MOS-02	MOS-02.1	A documented list of approved application stores has been	land/an annual visitania 2			Х	
Mobile Security	MOS-03	MOS-03.1	The company shall have a documented policy prohibiting the installation	Do you have a policy efforcement capability (e.g., AACIVIC) to ensure that only approved applications and those from approved			x	
Mobile Security	MOS-04	MOS-04.1	The BYOD policy and supporting awareness training clearly states the	Does your BYOD policy and training clearly state which applications and applications stores are approved for use on BYOD devices?			х	
Mobile Security	MOS-05	MOS-05.1	The provider shall have a documented mobile device policy that includes	Do you have a documented mobile device policy in your emproyee training that cleany defines mobile devices and the accepted	х			
Mobile Security	MOS-06	MOS-06.1	All cloud-based services used by the company's mobile devices or BYOD	por you nave a riocumenteur is coli préraipproveu ciouu paseu services triat are anoweu to be useu for use anu storage or company	v			
	MOS-07	MOS-07.1	The company shall have a documented application validation process to	boryournave a countehiled appined unit various transfer for testing device, operating system, and application compatibility	^			
Mobile Security				isome?			X	
Mobile Security	MOS-08	MOS-08.1	The BYOD policy shall define the device and eligibility requirements to	Do you have a BYOD policy that defines the device(s) and eligibility requirements allowed for BYOD usage? Do you maintain an inventory or an mobile devices storing and accessing company data which includes device status (e.g.,			Х	
Mobile Security	MOS-09	MOS-09.1	An inventory of all mobile devices used to store and access company data	po yoù nave a centralize tr'hibune a evit e ridanage ment sondud n'ideproyé a con la la mobile a evit es tinat ar e permittea to store, transmit,			Х	
Mobile Security	MOS-10	MOS-10.1	A centralized, mobile device management solution shall be deployed to				х	
Mobile Security	MOS-11	MOS-11.1	The mobile device policy shall require the use of encryption either for the	Dices your mobile deliver pointy require the use of entryption for either the entire device or for data identified as sensitive			х	
Mobile Security	MOS-12	MOS-12.1	The mobile device policy shall prohibit the circumvention of built-in	Does your indusing device pointy promote the chican invention or built-in security controls on mobile devices (e.g., Januareaking or			х	
Jailbreaking and		MOS-12.2	security controls on mobile devices (e.g., jailbreaking or rooting) and is	To your have detective and preventative controls on the device or via a centralized device management system which promisit the			x	
Mobile Security	MOS-13		The BYOD policy includes clarifying language for the expectation of	Does your BYOD policy clearly define the expectation of privacy, requirements for litigation, e-discovery, and legal holds?			v	
	1003-13						^	
Legal		MOS-13.2	privacy, requirements for litigation, e-discovery, and legal holds. The	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-14	MOS-14.1	BYOD and/or company owned devices are configured to require an	Do you require and enforce via technical controls an automatic lockout screen for BYOD and company owned devices? Do you manage an changes to mobile device operating systems, patch levels, and applications via your company's change			Х	
Mobile Security	MOS-15	MOS-15.1	Changes to mobile device operating systems, patch levels, and/or	managament neascass?			Х	
Mobile Security	MOS-16	MOS-16.1	Password policies, applicable to mobile devices, shall be documented and	Do you have password policies for enterprise issued mobile devices and/or BYOD mobile devices?			х	
Passwords		MOS-16.2	enforced through technical controls on all company devices or devices	Are your password policies enforced through technical controls (i.e. MDM)?			х	
		MOS-16.3	approved for BYOD usage, and shall prohibit the changing of	Do your password policies prohibit the changing of authentication requirements (i.e. password/PIN length) via a mobile device?			х	
Mobile Security	MOS-17	MOS-17.1					Y	
Policy	03 27	MOS-17.1	· · · · · · · · · · · · · · · · · · ·	Do you have a policy that requires BYOD users to perform backups of specified corporate data: Do you have a policy that requires BYOD users to prohibit the usage of unapproved application stores?			v	
. Siley			the use of anti-malware software (where supported).				^	
20.111.2		MOS-17.3	• • • • • • • • • • • • • • • • • • • •	Do you have a policy that requires BYOD users to use anti-malware software (where supported)?			X	
Mobile Security	MOS-18	MOS-18.1		Does your IT provide remote wipe or corporate data wipe for all company-accepted BYOD devices?			X	
Remote Wipe		MOS-18.2	or a company-assigned mobile device shall allow for remote wipe by the	Does your IT provide remote wipe or corporate data wipe for all company-assigned mobile devices? Do your mobile devices have the latest available security-related patches installed upon general release by the device			х	
Mobile Security	MOS-19	MOS-19.1	Mobile devices connecting to corporate networks or storing and	po your mount devices have the latest available security related patches histalied upon general release by the device			х	
Security Patches		MOS-19.2	accessing company information shall allow for remote software	Do your mobile devices allow for remote validation to download the latest security patches by company IT personnel?			x	
Mobile Security	MOS-20	MOS-20.1	The BYOD policy shall clarify the systems and servers allowed for use or	Does your BYOD policy clarify the systems and servers allowed for use or access on the BYOD-enabled device?			x	
Users		MOS-20.2	access on a BYOD-enabled device.	Does your BYOD policy specify the user roles that are allowed access via a BYOD-enabled device?			v	
	SEF-01				<u>.</u>		^	
Security Incident		SEF-01.1	Points of contact for applicable regulation authorities, national and local	Do you maintain liaisons and points of contact with local authorities in accordance with contracts and appropriate regulations?	IX			
Security Incident	SEF-02	SEF-02.1	Policies and procedures shall be established, and supporting business	Do you have a documented security incident response plan?	x			
Management, E-		SEF-02.2	processes and technical measures implemented, to triage security-	Do you integrate customized tenant requirements into your security incident response plans? Do you publish a roles and responsibilities document specifying what you vs. your tenants are responsible for during security	х			
Discovery, & Cloud		SEF-02.3	related events and ensure timely and thorough incident management, as	loo you publish a roles and responsibilities document specifying what you vs. your tenants are responsible for during security	x			
Forensics		SEF-02.4	per established IT service management policies and procedures.	Have you tested your security incident response plans in the last year?	x			
Security Incident	SEF-03	SEF-03.1	Workforce personnel and external business relationships shall be	Are workforce personner and external business relationships adequately informed of their responsibility, and, if required, consent	x			
Management, E-		SEF-03.2	informed of their responsibility and, if required, shall consent and/or	and/or contractually required to report all information security events in a timely manner?				
Discovery, & Cloud		3L1-03.2	contractually agree to report all information security events in a timely					
Forensics			l · · · · · · · · · · · · · · · · · · ·	Do you have predefined communication channels for workforce personnel and external business partners to report incidents in a				
Incident Reporting			manner. Information security events shall be reported through	timely manner adhering to applicable legal, statutory, or regulatory compliance obligations?				
			predefined communications channels in a timely manner adhering to		l.,			
			applicable legal, statutory, or regulatory compliance obligations.		l x	<u> </u>		

Security Incident	SEF-04	SEF-04.1	Proper forensic procedures, including chain of custody, are required for	poes your incident response plan comply with industry standards for legally admissible chain-of-custody management processes		l _x	
Management, E-	321 04	SEF-04.2	the presentation of evidence to support potential legal action subject to	Does your incident response capability include the use of legally admissible forensic data collection and analysis techniques?	,	^	
Discovery, & Cloud		SEF-04.3	the relevant jurisdiction after an information security incident. Upon	Does your intolern't esponse capaonity intolude the use of regard admissible for ensure data confection and analysis techniques: Arre you capaone of supporting intigation floids thereize of data from a specific point in time; for a specific tenant without freeze or data from a specific point in time; for a specific tenant without freeze or data from a specific point in time; for a specific tenant without freeze or data from a specific point in time; for a specific tenant without freeze or data from a specific point in time; for a specific			
Forensics				Ashorstonant data?	<u> </u>		
	CEE 05	SEF-04.4		Do you enforce and attest to tenant data separation when producing data in response to legal subpoenas?	(
Security Incident	SEF-05	SEF-05.1		Do you monitor and quantify the types, volumes, and impacts on all information security incidents?	(
Management, E-	071.01	SEF-05.2		Will you share statistical information for security incident data with your tenants upon request? DO YOU INSPECT AND ACCOUNT FOR DATE OF THE PROPERTY OF TH	(
Supply Chain	STA-01	STA-01.1	Providers shall inspect, account for, and work with their cloud supply-	υν γου design and implement controls to mitigate and contain data security risks through proper separation or duties, role-based	<u> </u>		
Management,			criain partners to correct data quality errors and associated risks.	por you make seturity incodent not for at large anable to air an exceur clustonies and providers periodically unrough electronic	(
Supply Chain	STA-02	STA-02.1	The provider shall make security incident information available to all	mathada (a a nartala)?	(
Supply Chain	STA-03	STA-03.1		Do you collect capacity and use data for all relevant components of your cloud service offering?	(
Management, Transparency, and			application and system-system interface (API) designs and configurations,				
Accountability			and infrastructure network and systems components, shall be designed,				
Network /			developed, and deployed in accordance with mutually agreed-upon	Do you provide tenants with capacity planning and use reports?			
Infrastructure			service and capacity-level expectations, as well as IT governance and service management policies and procedures.				
Services			service management policies and procedures.		x		
Supply Chain	STA-04	STA-04.1	The provider shall perform annual internal assessments of conformance	bo you perform annual internal assessments of comormance and effectiveness of your policies, procedures, and supporting	(
Supply Chain	STA-05	STA-05.1	Supply chain agreements (e.g., SLAs) between providers and customers	bo your select and into into outsourced providers in compliance with laws in the country where the data is processed, stored, and	(
Management,		STA-05.2	(tenants) shall incorporate at least the following mutually-agreed upon	to you select and monitor outsourced providers to ensure that they are in compliance with applicable legislation?	(
Transparency, and		STA-05.3	provisions and/or terms:	Does legal counsel review all third-party agreements?	(
Accountability Third Party		STA-05.4	Scope of business relationship and services offered (e.g., customer)	Do third-party agreements include provision for the security and protection of information and assets?	(
Agreements		STA-05.5		Do you have the capability to recover data for a specific customer in the case of a failure or data loss?	<u> </u>		
		STA-05.6		Do you have the capability to restrict the storage of customer data to specific countries or geographic locations?	(
		STA-05.7	components for service delivery and support, roles and responsibilities of	Can you provide the physical location/geography of storage of a tenant's data upon request?	(
		STA-05.8	provider and customer (tenant) and any subcontracted or outsourced	Can you provide the physical location/geography of storage of a tenant's data in advance?	(
		STA-05.9	business relationships, physical geographical location of hosted services,	Do you allow tenants to define acceptable geographical locations for data routing or resource instantiation? Are systems in place to monitor for privacy preaches and noting tenants expeditiously in a privacy event may have impacted their	(
		STA-05.10		Are systems in place to monitor for privacy oreacries and notify tenants expeditiously if a privacy event may have impacted their	х		
		STA-05.11	Information security requirements, provider and customer (tenant) arimony points of contact for the division of the business relationship	Do you allow tenants to opt out of having their data/metadata accessed via inspection technologies?	(
		STA-05.12	identary doints of confact for the duration of the dusiness relationship.	Do you provide the client with a list and copies of all subprocessing agreements and keep this updated?	(
Supply Chain	STA-06	STA-06.1	Providers shall review the risk management and governance processes of	bo you review the risk management and governance processes of partners to account for risks inherited from other members of	(
Supply Chain	STA-07	STA-07.1	Policies and procedures shall be implemented to ensure the consistent	the porties and recommendates established, and supporting pusiness processes and technical measures implemented, for maintaining	ζ .		
Management,		STA-07.2	review of service agreements (e.g., SLAs) between providers and	poryola trave trief abinity for the astrief and models's norf-Lonbort rance or provisions and/or terms across the entire supply chain	(
Transparency, and		STA-07.3	customers (tenants) across the relevant supply chain	Can you manage service-level conflicts or inconsistencies resulting from disparate supplier relationships?	(
Accountability		STA-07.4		Do you provide tenants with ongoing visibility and reporting of your operational Service Level Agreement (SLA) performance?	(
Supply Chain Metrics		STA-07.5	and identify and another and a setablished a second The series.	Do you make standards-based information security metrics (CSA, CAMM, etc.) available to your tenants?	(
		STA-07.6	should result in actions to address service-level conflicts or	Do you provide customers with ongoing visibility and reporting of your SLA performance?	х		
		STA-07.7	inconsistencies resulting from disparate supplier relationships.	Do your data management policies and procedures address tenant and service level conflicts of interests?	х		
		STA-07.8		Do you review all service level agreements at least annually?	(
Supply Chain	STA-08	STA-08.1	Providers shall assure reasonable information security across their	Do you assure reasonable information security across your information supply chain by performing an annual review?	(
Management,		STA-08.2	information supply chain by performing an annual review. The review	Does your annual review include all partners/third-party providers upon which your information supply chain depends?	(
Supply Chain	STA-09	STA-09.1	Third-party service providers shall demonstrate compliance with	Do you mandate annual information security reviews and audits or your third party providers to ensure that all agreed upon security f	х		
Management,			information security and confidentiality, access control, service	togyiromante are mai nino party services conduct vuinerability scans and periodic penetration tests on your applications and	(
Threat and	TVM-01		Policies and procedures shall be established, and supporting business	pot you' frave anti-maiware programs that support or connect to your cloud service offerings installed on all or your frammastructure	(
Vulnerability			processes and technical measures implemented, to prevent the execution	and customs components !			
Management			of malware on organizationally-owned or managed user end-noint				
Antivirus / Malicious			Idevices (i.e. issued workstations, lantons, and mobile devices) and (i	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?			
Software			infrastructure network and systems components.	initiastracture components as prescribed by industry best practices!			
					х		
Threat and	TVM-02			Do you conduct network-layer vulnerability scans regularly as prescribed by industry best practices?	(
Vulnerability Management		TVM-02.2		Do you conduct application-layer vulnerability scans regularly as prescribed by industry best practices?	<u> </u>	1	
Vulnerability / Patch		TVM-02.3		Do you conduct local operating system-layer vulnerability scans regularly as prescribed by industry best practices?	(
Management		TVM-02.4		Will you make the results of vulnerability scans available to tenants at their request?	(
		TVM-02.5		Do you have a capability to patch vulnerabilities across all of your computing devices, applications, and systems?	(
		TVM-02.6	implemented security controls. A risk-based model for prioritizing				
			remediation of identified vulnerabilities shall be used. Changes shall be managed through a change management process for all vendor-supplied				
			and the configuration of the c				
			intervally developed software. Here request the provider informs	Do you inform customers (tenant) of policies and procedures and identified weaknesses if customer (tenant) data is used as part			
			customer (tenant) of policies and procedures and identified weaknesses	the service and/or customer (tenant) has some shared responsibility over implementation of control?			
			especially if customer (tenant) data is used as part the service and/or				
			customer (tenant) has some shared responsibility over implementation of		,		
Threat and	TV/A4 02	T) (M 02.1		is mobile code authorized before its installation and use, and the code comiguration checked, to ensure that the authorized mobile			
rinearand	TVM-03	TVM-03.1	Policies and procedures shall be established, and supporting business	landa anaratas assardina ta a slaadu dafinad sasuritu nalinu?	<u> </u>	<u> </u>	

rocesses and technical measures implemented, to prevent the of unauthorized mobile code, defined as software transferred by systems over a trusted or untrusted network and executed on a system without explicit installation or execution by the recipient organizationally-owned or managed user end-point devices (e.g. workstations, laptops, and mobile devices) and IT infrastructure.	reen cal Is all unauthorized mobile code prevented from executing? ssued	x	
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