Cloud service provider disclosure (MTCS SS584:2020)

The form is to be completed for each cloud service provided. For questions not applicable or not disclosed, indicate accordingly in the remarks.

Date of Disclosure: 2024-04-11

Applicable cloud service(s): Google Cloud Services

Cloud Service Provider Contact Information		
Company name: Google LLC		
Primary address:		
1600 Amphitheatre Parkway		
Mountain View, California 94043, United States		
Web address: https://cloud.google.com		
Contact name: John Mulder, Director, Compliance Assurance and Audit		
Contact number: +1 (212) 565 - 7927 Contact email: jmulder-mtcs@google.com		
MTCS Certificate Number: GCP 2018-014 / Workspace 2018-015 DocuSigned by:		
Company Chop POR Company Representative Signature: CFC7CB9F1AAF4C6		
Certification Box Canta SEA matien		
Company name: Web address: Contact name:		
Web address:		
Contact name:		
Contact number: Contact email:		
Company Chop: Lead Auditor Signature:		
Cloud Service Provider Background		
Overview of service offering:		
Google Cloud Services include Google Cloud Platform and Google Workspace. Google		
Cloud Platform provides Infrastructure as a Service (laaS), Software as a Service (SaaS),		
and Platform as a Service (PaaS), allowing businesses and developers to build and run any		
or all of their applications on Google's Cloud infrastructure. Customers can benefit from the		
performance, scale, reliability, ease-of-use, and a pay-as-you-go cost model. Google		
Workspace products are composed of communication, productivity, collaboration and		

security tools that can be accessed virtually from any location with internet connectivity. The products provide multi-user collaboration without requiring special hardware or software.
Service model: □ Virtual machine instances owned by the cloud service customer
□ Network facilities
✓ Compliance with applicable standards Deployment model:
 □ Private cloud □ Community cloud
☐ Hybrid cloud
✓ Public cloud Tier:
□ Level 1
□ Level 2
☑ Level 3

No.	Criteria	Description	Remarks
Lega	l and Compliance		
1.	Right to audit	The cloud service customer has the right to audit: ✓ Virtual machine instances owned by the cloud service customer □ Network facilities □ Compliance with applicable standards □ Technical controls □ Policies and governance □ Data center facilities ✓ Others Right to audit is specific to customer contractual terms □ None Regulators recognised by Singapore law have the right to audit: □ Virtual machine instances owned by the cloud service customer □ Network facilities □ Compliance with applicable standards □ Technical controls	Our customers and regulators expect independent verification of security, privacy and compliance controls. Google undergoes several independent third party audits on a regular basis to provide this assurance. This means that an independent auditor has examined the controls present in our data centers, infrastructure, products, and operations. Google's third party audit approach is designed to be comprehensive in order to provide assurances of Google's level of information security with regard to confidentiality, integrity, and availability. Customers may use these third party audits to assess how Google's products can meet their security and privacy compliance requirements. Clauses 15.2.2(b), and 15.2.3(b) are not applicable as third-party scanning tools

		☐ Policies and governance	sometimes are unable to take all mitigating
		☐ Data center facilities	factors of Google's environment into
		□ Others	consideration when reporting vulnerability
			severity. Google's internal Vulnerability
		☑ None	Management relies on severity ratings of
			findings that scanners report rather than the
		Audit / assessment reports that can be made	CVSS values. As a result, Google defines
		available on request:	vulnerability prioritization according to a scale
		☑ Penetration test	from P0-P4, where for example immediate
		$\hfill\Box$ Threat and vulnerability risk assessment	attention is required for P0.
		☐ Vulnerability scan	
		☑ Audit reports (e.g. Statement on	Google will allow customers or an
		Standards for Attestation Engagements	independent auditor appointed by the
		(SSAE) No. 16, Reporting on Controls at a	Customer to conduct audits to verify Google's
		Service Organisation)	compliance with its obligations under certain
			business terms set forth by Google in our
			Data Protection Agreement (section 7.5.2,
			and 7.5.3).
2	Compliance	The following guidelines / standards /	Google is committed to protecting our cloud
2.	Compliance	The following guidelines / standards /	Google is committed to protecting our cloud
2.	Compliance	regulations are adhered to:	customers' data. We undergo several
2.	Compliance	regulations are adhered to: ☐ Singapore Personal Data Protection Act	customers' data. We undergo several independent third-party audits on a periodic
2.	Compliance	regulations are adhered to: ☐ Singapore Personal Data Protection Act ☐ ISO / IEC 27001	customers' data. We undergo several
2.	Compliance	regulations are adhered to: ☐ Singapore Personal Data Protection Act ☑ ISO / IEC 27001 ☑ ISO 9000	customers' data. We undergo several independent third-party audits on a periodic basis.
2.	Compliance	regulations are adhered to: ☐ Singapore Personal Data Protection Act ☐ ISO / IEC 27001 ☐ ISO 9000 ☐ ISO / IEC 20000	customers' data. We undergo several independent third-party audits on a periodic basis. For the complete and updated list, please
2.	Compliance	regulations are adhered to: ☐ Singapore Personal Data Protection Act ☐ ISO / IEC 27001 ☐ ISO 9000 ☐ ISO / IEC 20000 ☐ CSA Open Certification Framework	customers' data. We undergo several independent third-party audits on a periodic basis. For the complete and updated list, please visit
2.	Compliance	regulations are adhered to: ☐ Singapore Personal Data Protection Act ☑ ISO / IEC 27001 ☑ ISO 9000 ☐ ISO / IEC 20000 ☑ CSA Open Certification Framework ☑ PCI-DSS	customers' data. We undergo several independent third-party audits on a periodic basis. For the complete and updated list, please
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2.	Compliance	regulations are adhered to: ☐ Singapore Personal Data Protection Act ☑ ISO / IEC 27001 ☑ ISO 9000 ☐ ISO / IEC 20000 ☑ CSA Open Certification Framework ☑ PCI-DSS	customers' data. We undergo several independent third-party audits on a periodic basis. For the complete and updated list, please visit https://cloud.google.com/security/compliance Google has provided documentation describing control environment in order to enable customers to evaluate the suitability of Google Cloud within the context of Singapore PDPA: https://services.google.com/fh/files/misc/sing apore personal data protection act whitep

			background checks on new hires, where
			legally permissible. As such, we believe we
			have addressed the risk for which Clause
			7.2.4 is intended.
			Under Clause 8.2 Google performs an
			Enterprise-wide Risk Assessment for each
			Product Area twice per year. In addition,
			Google's Office of Compliance & Integrity
			team, Cloud Compliance & Certifications
			team, Internal Audit, and Security Teams
			coordinate the continual improvement and
			monitoring of the ISMS through the use of
			information security policies, information
			security objectives, audit results, analysis of
			continuous monitoring events, corrective and
			preventive actions, and management review.
Data (<u>I</u> Control		
_	Γ	T	<u> </u>
3.	Data 	All data on the cloud service is owned by the	Google does not use customer content for
	ownership	cloud service customer except for:	marketing or advertising purposes. Google
			Cloud may advertise directly to Google Cloud
		The cloud service customer retains the	customers to market additional services
		ownership on the derived data or attributes	which may be of interest to those customers.
		of cloud usage except for the following:	
		☑ Advertising or marketing	
		☑ Statistics analysis on usage	
		☑ Others <u>Product Development</u>	
4.	Data retention	Data deleted by the cloud service customer	Please refer to
		is retained as follows:	https://cloud.google.com/terms/data-processi
		☑ Minimum data retention period is: <u>30</u>	ng-addendum section 6
		days (GCP); 20 days (Google Workspace)	
		☑ Maximum data retention period is: <u>180</u>	https://cloud.google.com/security/deletion/#d
		<u>days</u>	<u>eletion_timeline</u>
		☐ Deleted immediately	
			https://support.google.com/a/answer/33314?
		Log data is retained for a period of:	hl=en
		☑ Minimum data retention period as	
		follows: 30 to 400 days (GCP); 30 days to	https://cloud.google.com/logging/quotas#logs
		15 months (Google Workspace)	<u>retention_periods</u>

		☑ Maximum data retention period is: <u>30</u>	
		to 400 days (GCP); 30 days to 15 months	https://support.google.com/a/answer/706156
		(Google Workspace)	<u>6</u>
		☐ Not retained	
			Clause 13.5.3(b) - Google ensures that Logs
		Cloud service customer data is retained for a	datasets are collected, stored, managed, and
		period of:	accessed in adherence to Google's internal
		☐ Minimum data retention period is:	and external privacy policies through the use
		☐ Maximum data retention period is:	of dedicated logs infrastructure. Remote
		☐ Not retained	access to corporate machines requires a
			digital certificate issued by the organization
		The following types of data are available for	installed on the connecting device, and
		download by the cloud service customer:	two-factor authentication in the form of user
		☑ Log data	ID, password, security key, and/or certificate
		☑ Others <u>Any user data</u>	
			Customers are responsible for logging and
			monitoring changes in a cloud user's
			administrators account in accordance with
			clause 23.9. For Clause 23.9.4, Google has
			provided the Cloud Identity Terms of Service
			that states the customer agrees that Google's
			responsibilities do not extend to the internal
			management or administration of the
			services for customers and that Google is
			merely a data processor.
			https://cloud.google.com/terms/identity/na_te
			<u>rms</u>
5.	Data	The primary data locations are:	GCP
	sovereignty	☐ Singapore	
		☐ Asia Pacific	For certain Google Cloud Platform services,
			customers may select where their data will
		□ Europe	be stored (the "Data Location Selection"),
		☐ United States	and Google will store the data in accordance
		☑ Others	with the Service Specific Terms. If a Data
		https://cloud.google.com/about/locations/	Location Selection is not covered by the
		https://www.google.com/about/datacenter	Service Specific Terms (or a Data Location
		s/locations/	Selection is not made by Customer in respect
			of any Customer Data), Google may store
		The backup data locations are:	and process the relevant Customer Data
		☐ Singapore	anywhere Google or its Subprocessors

	☐ Asia Pacific	maintains facilities.
	☐ Europe ☐ United States	Google stores data in a multi-tenant environment on Google-owned servers. The
	☑ Others <u>See above</u>	data and file system architecture are
	No. of countries in which data centers are	replicated between multiple geographically dispersed data centers.
	operated:	https://cloud.google.com/about/locations
	The cloud service customer's data stored in the cloud environment will never leave the	Per requirement 18.5.2(d) "Visitors' log is periodically reviewed":
	locations specified in item 5: ☐ Yes	Google has established formal access
	☐ Yes, except as required by law	procedures allowing physical access to the
	☐ Yes, except as noted:	data centers. There are documented
	☑ No	procedures for issuing badges to staff and/or visitors and the owner of each badge is
	Cloud service customer's consent is required	tracked and documented. All entrants to the
	prior to transferring data to a location not	data center, whether Google employees,
	specified in item 5 or a third party:	visitors, or contractors, must identify
	☐ Yes	themselves and show proof of identity to
	✓ Yes, except as required by law	security operations. Valid proof of identity
	☐ Yes, except as noted:	consists of (1) a photo ID issued by Google or (2) a governmental entity.
	Note: Cloud service customers are responsible for	Authorized Google Data Center Approvers
	determining the impact of data protection and	must approve all visitors in advance for the
	data sovereignty laws on the locations where data is stored. In addition, cloud service	specific data center and internal areas they wish to visit.
	customers should understand the risks associated with relevant laws that may allow for law enforcement or other government access to data in-transit or storage with Cloud Service Providers.	After the individual's access authorization is verified, the visit is logged, and access is granted for the specified dates and times. These logs are retained by Google security for review as needed.
		Visitors are provided a temporary badge and must be escorted by an authorized Google employee to access areas beyond the lobby. When the visitors leave the data center, they must return the visitor badge.

			Google Workspace
			Per section 10 of the Cloud Data Processing Addendum, Customer Data may be processed in any country where Google or its Subprocessors maintain facilities, subject to Google's data location commitments under the Service Specific Terms and data transfer commitments. The locations of Google Workspace data centers are described at https://www.google.com/about/datacenters/locations/
			Unless specifically disclosed for a given product, Google Cloud does not host data at any third party data centers where Google does not own and manage the physical security boundary and control therefore clauses 9.3.4(a) and 9.5.4(d) are not applicable to the Google environment.
			Google Cloud NetApp Volumes (GCNV)
			Google Cloud offers the GCNV product through GCP, which relies on a subprocessor to provide certain aspects of the service. The subprocessor engages third party data center services for hosting. These third party data centers are excluded from the scope of this audit.
6.	Non disclosure	 ✓ Non-disclosure agreement template can be provided by Cloud Service Provider ✓ Cloud Service Provider may use customer's NDA (pending legal review) 	Google ensures that a non-disclosure agreement is in place before sharing any confidential information with any customer. Google will also work with the customer if they request to use their NDA template.
Provid	er Performance		
7.	Availability	The committed network uptime is:	https://cloud.google.com/terms/sla/

		□ Varies according to price plan The committed system uptime is: □	https://workspace.google.com/intl/en/terms/sla.html
8.	3 rd party dependency	Highlight areas of critical dependency for service delivery: None/Not applicable	Edge/Points of Presence (PoPs) locations: Edge/PoP locations are not critical elements or represent any critical dependency of Google service offerings, but are used for reducing network latency. Google Cloud services might utilize compute, storage, and other cloud services within non-Google Edge/PoPs location. Presently Google is not validating the design or operating effectiveness of physical security at these Edge/PoP facilities. Google has implemented appropriate compensating controls to mitigate the above risk: 1. The PoP vendors do not have logical access to the Google services, and they are only responsible for providing space and power. 2. Access management controls are leveraged to define ACLs (in Ganpati) that prevent unauthorized access to customer data. 3. Furthermore Google has implemented robust encryption controls for data at rest and in transit between two production environments. 4. Robust logging and monitoring

			controls have been implemented for auditing access to data. 5. Private key material for termination of SSL is not stored on the machines in non-Google edge POPs. Based on the above assertions of no critical dependency on Edge/PoP locations and compensating controls in place, Edge/Pop locations will be out of scope for this audit. Google Cloud NetApp Volumes (GCNV) Google Cloud offers the GCNV product through GCP, which relies on a subprocessor to provide certain aspects of the service. The subprocessor engages third party data center services for hosting. These third party data centers are excluded from the scope of this audit.
9.	BCP / DR	□ Disaster recovery protection □ Backup and restore service □ Cloud service customer selectable backup plans □ Escrow arrangements □ No BCP / DR is available ☑ RPO SRO Program ☑ RTO SRO Program □ Others, please specify:	Google has an SRO (service recovery objective) program for zonal and regional failure events. These RPO/RTO commitments are provided to customers in order to provide proof of disaster preparedness by covering cloud architecture, risk, and business continuity planning. Google replicates data over multiple locations to help protect against accidental destruction or loss. GCP customers may schedule their own backups using provided services, such as Cloud archival or Cold Storage. Per requirement 21.2.2(e): "The Cloud Service Provider shall develop, maintain and communicate a BCP framework for the required cloud services. The framework includes, but is not limited to, the following

			requirements: e) Determination of maximum
			tolerable period of disruption."
			Google does not perform traditional
			contingency planning and therefore does not
			conduct a traditional information system-wide
			business impact analysis to determine
			maximum tolerable downtime or data loss.
			Instead Google has established an internal
			service level agreement framework between
			infrastructure teams and internal customers
			that allow our services to achieve stated
			service levels within our agreements. SLAs
			for each service are published at:
			https://cloud.google.com/terms/sla
10.	Liobility	The following terms are evallable for the	Coogle shall use all researchle commercial
10.	Liability	The following terms are available for the cloud service customers on failure of the	Google shall use all reasonable commercial efforts to ensure that all the GCP services
		provider to meet the service commitment:	are operated and available to customers
		□ Network failure	based on the service level agreements
		Liability:	described below. In the event Customer
		Liability.	experiences any of the service performance
			issues defined below due to Google's failure
		☐ Infrastructure failure	to provide Services, Customer will be eligible
		Liability:	to provide Services, Customer will be eligible to receive the Service Credits described
		Liability.	below.
			https://cloud.google.com/terms/sla/
		☐ Virtual machine instance failure	https://oloud.google.com/terms/sla/
		Liability:	During the Term of the applicable Google
			Workspace Agreement, the Google
			Workspace Covered Services web interface
		☐ Migrations	will be operational and available to Customer
		Liability:	at least 99.9% of the time in any calendar
			month (the "Google Workspace SLA"). If
			Google does not meet the Google
		☐ Unscheduled downtime	Workspace SLA, and if Customer meets its
		Liability:	obligations under this Google Workspace
			SLA, Customer will be eligible to receive the
			Service Credits described below. This
		☐ Database failure	Google Workspace SLA states Customer's
		Liability:	sole and exclusive remedy for any failure by

11.	Shared responsibility	☐ Monitoring failure Liability: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Google to meet the Google Workspace SLA. https://workspace.google.com/intl/en/terms/sl a.html https://cloud.google.com/architecture/framew ork/security/shared-responsibility-shared-fate
	responsibility	implement and manage for use of this	Onvocounty/onared responsibility onared late
		cloud service	https://services.google.com/fh/files/misc/gcp
		URL (or attach file): <u>(see remarks)</u>	pci_dss_v4_responsibility_matrix.pdf
Servic	e Support		
12.	Change management	The Cloud Service Provider has established the following for changes, migrations, downtime, and other potential interruptions to cloud services: ☑ Communication plan and procedures for proactive notification ☑ Assistance in migration to new services when legacy solutions are discontinued ☐ Ability to remain on old versions for a	https://cloud.google.com/terms/tssg/ https://workspace.google.com/terms/premier _terms/
		defined time period ☐ Ability to choose timing of impact	
13.	Self-service provisioning and management portal	Provide self-service provisioning and management portal for cloud service customers to manage cloud services: ☑ Yes ☐ No If yes, describe the functions of the self-service provisioning and management portal provided: ☑ Allow role-based access control (RBAC) ☑ Manage resource pools (e.g. VMs, storage, and network) and service templates	Google's self service platform provides users the ability to administer users and manage their Google services. Additionally, Cloud users are able to manage resource pools through the consoles and track usage statistics.

		 ✓ Track and manage the lifecycle of each service ✓ Track consumption of services ☐ Health monitoring ☐ Others: 	
14.	Incident and problem management	Delivery mode of support: ☑ Access via email ☑ Access via portal ☑ Access via phone support ☑ Direct access to support engineers	https://cloud.google.com/support/?options=pr emium-support#options https://workspace.google.com/support
		Availability of support: ✓ 24 x 7 □ During office hours support, please specify the hours of operations:	
		☐ After office hours support, please specify the hours of operations: Service response time: Notification time of cloud service outage incident:	
		Communication channel used for notification of cloud service outage incident: The following are available to cloud service	
		customers upon request: ☐ Permanent access to audit records of customer instances ☐ Incident management assistance Incident response time:	
		Mean time to repair on detection of faults:	
15.	Billing	The following billing modes are available (please elaborate granularity of charges and	Information about Google Cloud & G Suite Pricing may be found at:
		measurement): ☑ Pay per usage (see remarks) (up to per min/hour/day/month for compute/storage for laaS/PaaS, and per cloud service customer per hour/day/month/year for SaaS) □ Fixed pricing (up to	https://cloud.google.com/pricing/ https://workspace.google.com/pricing.html

		yearly/monthly/daily) □ Other pricing model □ Not disclosed □ Available billing history: Months	
16.	Data portability	Importable VM formats: Downloadable formats: JSON/XML/other open formats (to specify) Supported operating systems: Language versions of supported operating systems: Supported database formats: Policy/guide available API: Common Customised Upon service termination or prolonged outage, data is available through: Physical media Standard methods as described above Other methods	https://cloud.google.com/migrate/ https://cloud.google.com/migrate/virtual-mac hines/docs/5.0/discover/migrating-vms-migrat e-for-compute-engine-getting-started https://support.google.com/accounts/answer/ 3024190?hl=en https://cloud.google.com/security/gdpr/ https://takeout.google.com/?pli=1 https://support.google.com/a/answer/100458 ?hl=en https://cloud.google.com/security/compliance /swipo-codes
17.	Interoperability	Use of industry standards and availability of APIs to support interoperability: □ Transport supported (e.g. REST based HTTPS/MQTT) ☑ Format supported (e.g. JSON/XML) XML □ APIs supported □ Other methods Guide available (see remarks)	https://cloud.google.com/storage/docs/interoperability
18.	Access	Type of access to the service is through: ☑ Public access ☑ Private access (e.g. VPN, dedicated link)	In addition to the methods to the left, Google also offers Interconnect to its GCP customers. https://cloud.google.com/interconnect

		Z IDv6 access is aumouted	
		☑ IPv6 access is supported	Coords Claud Interconnect allows Coords
		☑ Other access methods Google	Google Cloud Interconnect allows Google
		Interconnect	Cloud Platform customers to connect to
			Google via enterprise-grade connections with
		Public access speed (shared bandwidth) in	higher availability and/or lower latency than
		Mbps:	their existing Internet connections.
			Connections are offered by Cloud
			Interconnect service provider partners, and
			may offer higher SLAs than standard Internet
			connections. Google also supports direct
			connections to its network through direct
			peering. Customers who cannot meet Google
			at its peering locations, or do not meet
			peering requirements, may benefit from
			Cloud Interconnect.
			https://cloud.google.com/interconnect/
19.	User	☑ Identity management	Google offers Cloud Identity & Access
	management	☑ Role based access control	management that allows administrators to
		☑ Federated access model	authorize who can take action on specific
		✓ Integration with Identity management	resources, giving them full control and
		solutions	visibility to manage cloud resources centrally.
		☐ Others	For established enterprises with complex
			organizational structures, hundreds of
			workgroups and potentially many more
			projects, Cloud IAM provides a unified view
			into security policy across customer's
			organization, with built-in auditing to ease
			compliance processes.
			https://cloud.google.com/security/products/ia
			<u>m</u>
			https://cloud.google.com/identity/
			Below MTCS clauses are not applicable:
			Clause 22.13 is not applicable as third party
			admins do not have access. Clause 22.14 is
			not applicable as service and application
			accounts are not used
			https://cloud.google.com/terms/data-processi
			ng-terms

Google has adopted NIST guidance (SP 800-63c) and, as such, does not enforce password history and rotation requirements as defined in Clause 22. Google's password policies provide "equivalent or better security" than the requirements established in Clause 22.

Google has provided the ability to integrate customer's SSO via SAML, which allows them to configure their password settings to meet MTCS standards. As such, we consider this an alternative implementation to meet the requirements in Clause 23.

Clauses 23.3, 23.5.2(a) and (b), 23.8.2(b) are not applicable as user access security is a shared responsibility between Google & Customer.

Under Clause 22.5 and 23.5 Google has implemented the lockout control where a user is allowed 30 login attempts within a 3 hour period. If that number of attempts is met, then a user is unable to login for a 3 hour period.

Additionally, customers are responsible for removing custom applications accounts, user IDs, passwords, test data and in accordance with clauses 16.2.2(b) and (c).

Google employs robust, proprietary services and mechanisms to encrypt Google Workspace user data, as such, we believe we are addressing the risk for which clause 24.7.4(a) is intended.

Clause 17.3.2(a) is not applicable as GCP customers can manage the keys themselves

	Γ	T	<u> </u>
			by using Cloud KMS or bring their own keys
			to Google Cloud. For the GCNV product,
			encryption of data-in-transit is a shared
			responsibility between Google and the
			customer.
			Clauses 17.4.3(g) and (h), and 17.4.4 are the
			responsibility of GCP customers to the
			extent that they utilize our Customer
			Managed Key capability, thereby using
			Hardware Security Module (HSM). Clauses
			17.4.3(g) and (h), and 17.4.4 are not
			applicable for Google Workspace as Google
			does not use HSMs for internal key
			management systems (KMS).
			Cloud Customer Managed Encryption Keys
			https://cloud.google.com/storage/docs/encryp
			tion/customer-managed-keys
			Cloud HSM
			https://cloud.google.com/security/products/se
			curity-key-management
			Google Workspace Key Management
			https://support.google.com/a/answer/107418
			97
			https://services.google.com/fh/files/helpcente
			r/google encryptionwp2016.pdf
			Please refer to Google's Encryption at Rest
			in Google Cloud Platform security whitepaper
			for additional information.
			https://cloud.google.com/security/encryption-
			at-rest/default-encryption/
<u> </u>			
20.	Lifecycle	The cloud service customer may select the	https://cloud.google.com/identity/solutions/au
		following for service upgrades and changes:	tomate-user-provisioning
		☑ Automatic provisioning	
		☐ Cloud service customer customisable	
		provisioning	

Secur	Security Configurations		
21.	Security configuration enforcement checks	Security configuration enforcement checks are performed: Manually Using automated tools How often are enforcement checks being performed to ensure all security configurations are applied?	https://cloud.google.com/docs/security/overview/whitepaper#vulnerability_management https://workspace.google.com/learn-more/security/security-whitepaper/page-3.html#vulnerability-management https://cloud.google.com/security-command-center/docs/concepts-vulnerabilities-findings
22.	Multi-tenancy	 □ Distinct physical network infrastructure ☑ Virtual instance grouping ☑ Cloud service customer definable security domains ☑ Cloud service customer customisable firewall ☑ Cloud service customer definable access policies 	Per requirement 14.3.4(b): "Any user-provided code is sandboxed or isolated to ensure the underlying platform and other tenants are not affected by the same." Google applies the Principle of Shift Left to our software development life cycle by doing as much testing as possible, as early as possible. The four different phases in the qualification cycle (pre-submit, post-submit, release qualification, and deployment) increases confidence by mitigating security-risk concerns to ensure that user-provided code does not affect the underlying platform. https://cloud.google.com/solutions/shifting-left-on-security Clauset 24.4.2(I) is not applicable as Google does not follow the concept of traditional hypervisors for products deployed in Google's prod/Borg infrastructure.
23.	Hybrid cloud provision	Ability to monitor, track, apply and enforce CSC's security & privacy policies on its cloud workloads: Data protection and encryption key mgmt. enforcement geolocation-based / resource pools and secure migration of	Option 1-2 References: https://cloud.google.com/storage/docs/encryp tion/customer-managed-keys https://cloud.google.com/docs/geography-an d-regions#geographic_management_of_data

		cloud workloads	
		☑ Key mgmt. and keystore controlled by	https://cloud.google.com/architecture/migrati
		csc	ons
		☐ Persistent data flow segmentation before	<u>one</u>
		and after geolocation based/resource pools	Option 4 References:
		secure migration	https://cloud.google.com/architecture/hybrid-
		☑ Compliance enforcement for regulated	and-multi-cloud-network-topologies
		workloads between on premises private	and-multi-cloud-network-topologies
		·	Compared University Claused Decompositions
		and hybrid/public cloud	General Hybrid Cloud Documentation
		☐ Others	https://cloud.google.com/architecture/hybrid-
			and-multi-cloud-patterns-and-practices
			https://cloud.google.com/architecture/hybrid-
			and-multi-cloud-patterns-and-practices#migr
			ation_and_modernization
			https://cloud.google.com/architecture/hybrid-
			and-multi-cloud-architecture-patterns
Servic	ce Elasticity		
24.	Capacity	The following capacity elasticity options are	Google's Instance groups offer GCP
	elasticity	available:	customers managed groups that can
	,	☑ Programmatic interface to scale up or	automatically scale the number of instances
		down	in the group, work with load balancing
		☐ Mean time to start and end new virtual	services to distribute traffic to all of the
		instances	instances in the group and automatically
		✓ Alerts to be sent for unusual high	recreate the instance in the event of an
		usage	incident. In addition to the automatic load
		☐ Minimum performance during peak	balancing, Google also offers Health Checks
		periods	that checks the health of the instance and the
		☐ Minimum duration to scale up computing	
			server. https://cloud.google.com/compute/docs/insta
		resources	
		✓ Minimum additional capacity	nce-groups/
		guaranteed per account 2 TB (number of	https://elevid.google.g
		cores and GB memory)	https://cloud.google.com/compute/docs/load-
			balancing/health-checks

25.	Network	The following network resiliency and	https://cloud.google.com/docs/security/overvi
	resiliency and	elasticity options are available:	ew/whitepaper#security benefits of our glo
	elasticity	☑ Redundant Internet connectivity links	<u>bal_network</u>
		☑ Redundant Internal connectivity	
		☐ Selectable bandwidth up to Mbps	https://cloud.google.com/docs/security/infrast
		☐ Maximum usable IPs	ructure/design#secure-internet
		☐ Load balancing ports	
		☐ Load balancing protocols	
		☑ Anti-DDOS protection systems or	
		services	
		☐ Defence-in-depth mechanisms, please	
		specify:	
		☐ Network traffic isolation, please specify:	
		☐ Shared or dedicated bandwidth, please	
		specify:	
		☐ QoS traffic control services	
		☑ Alerts to be sent for unusual high	
		usage	
		☐ Minimum performance during peak	
		periods	
		☐ Minimum period to scale up network	
		throughput	
26.	Storage	The following storage redundancy and	Google offers various storage options to
20.	redundancy	elasticity options are available:	customers based on their need:
	and elasticity	✓ Redundant storage connectivity links	https://cloud.google.com/storage/
	and oldottolty	within each data center	integration and a second secon
		✓ Redundant storage connectivity links	https://support.google.com/googlecloud/answ
		between data centers belonging to the	er/6056635?hl=en&ref_topic=6055719
		same cloud	
		☐ Storage traffic isolation, please specify:	Clause 24.6 is not applicable since within
		, , , , , , , , , , , , , , , , , , , ,	Google the concept of SAN is not applicable.
		☐ Shared or dedicated storage network	Google offers multiple storage solutions
		bandwidth, please specify:	through a redundant architecture across
			geographically distributed DCs. All the
		☐ Quality of service storage traffic control	machines within a DC are treated at the
		services	same "trust" level and hence have the same
		☐ Maximum storage capacity for entire	security configuration applicable.
		cloud, please specify:	
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☐ Maximum storage capacity for single cloud service customer, please specify:
☐ Maximum expandable storage, please specify:
✓ Alerts to be sent for unusual high usage
☐ Minimum storage I / O performance during peak periods
☐ Minimum period to scale up storage I / O throughput