



Certificate



Certificate number: 2018-014

Certified by EY CertifyPoint since: July 10, 2018

Based on certification examination in conformity with defined requirements in Multi-Tier Cloud Security - SS 584:2015 as defined and implemented by

Google Asia Pacific Pte Ltd*

located in 70 Pasir Panjang Road, Mapletree Business City, Singapore 117371 is compliant with the Level 3 requirements as stated in the standard:

Multi-Tier Cloud Security (MTCS) - SS 584:2015

Issue date of certificate: August 28, 2018

Expiration date of certificate: July 9, 2021

EY CertifyPoint will, according to the certification agreement dated December 17, 2015, perform surveillance audits and acknowledge the certificate until the expiration date noted above.

**The certification is applicable for the assets, services and locations as described in the scoping section on the back of this certificate, with regard to the specific requirements for multi-tier cloud security.*

J. Sehgal | Director, EY CertifyPoint

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Google Asia Pacific Pte Ltd

Scope for certificate 2018-014

The scope refers to level 3 of Multi-Tier Cloud Security System of Google Asia Pacific Pte Ltd located in 70 Pasir Panjang Road, Mapletree Business City, Singapore 117371 supporting the provision of Google Cloud using Infrastructure-as-a-service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS) model.

Google Cloud Platform

- App Engine
- App Engine Flexible Environment
- BigQuery
- BigQuery Data Transfer Service
- Cloud Armor
- Cloud Bigtable
- Cloud Billing API
- Cloud CDN
- Cloud Console
- Cloud Console Mobile App
- Cloud Dataflow
- Cloud Datalab
- Cloud Dataproc
- Cloud Datastore
- Cloud Deployment Manager
- Cloud DNS
- Cloud Endpoints
- Cloud Firestore
- Cloud Functions
- Cloud Healthcare API
- Cloud Identity & Access Management
- Cloud Identity-Aware Proxy
- Cloud Interconnect
- Cloud IoT Core
- Cloud Jobs Discovery
- Cloud Key Management Service
- Cloud Launcher
- Cloud Load Balancing
- Cloud Machine Learning Engine
- Cloud Natural Language API
- Cloud Pub/Sub
- Cloud Resource Manager
- Cloud Router
- Cloud SDK
- Cloud Security Scanner
- Cloud Shell
- Cloud Source Repositories
- Cloud Spanner
- Cloud Speech-to-Text
- Cloud SQL
- Cloud Storage
- Cloud Storage Transfer Service
- Cloud Translation API
- Cloud Video Intelligence API
- Cloud Vision API
- Cloud VPN
- Compute Engine
- Container Builder
- Container Registry
- Data Loss Prevention API
- Dialogflow Enterprise Edition
- Genomics
- Google Service Control
- Kubernetes Engine
- Orbitera
- Persistent Disk
- Service Consumer Management API
- Service Management API
- Stackdriver Debugger
- Stackdriver Error Reporting
- Stackdriver Logging
- Stackdriver Profiler
- Stackdriver Trace
- Transfer Appliance
- Virtual Private Cloud (VPC)

This scope (edition: July 10, 2018) is only valid in connection with certificate 2018-014.

Google Asia Pacific Pte Ltd

Scope for certificate 2018-014

The following locations are in scope:

Data Centers:


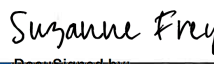
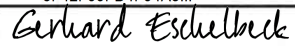


- Atlanta, Georgia, United States of America (ATL/IDI)
- Atlanta, Georgia, United States of America (ATL/MET)
- Changhua, Taiwan (TPE/CHG)
- Council Bluffs, Iowa, United States of America (CBF/CBF)
- Council Bluffs (Southland), Iowa, United States of America (CBF/SLN)
- The Dalles, Oregon, United States of America (DLS/DLS)
- Dublin, Ireland (DUB/PPK)
- Eemshaven, Groningen, Netherlands (GRQ/EEM)
- Ghlin, Hainaut, Belgium (BRU/GBL)
- Hamina, Finland (LPP/LPP)
- Lenoir, North Carolina, United States of America (CHS/MNK)
- Moncks Corner, South Carolina, United States of America (CHS/MNK)
- Pryor Creek, Oklahoma, United States of America (TUL/PRY)
- Quilicura, Santiago, Chile (SCL/QCA)
- Wenya, Singapore (SIN/WEN)
- Koto-ku, Tokyo, Japan (KOT)
- Ashburn, Virginia, United States of America (IAD)
- London, United Kingdom (SGH)
- Frankfurt, Hesse, Germany (ROD)
- Sydney, NSW, Australia (MQP)
- Montreal, Quebec, Canada (YUL)
- Sao Paulo, Brazil (OCO)
- Mumbai, India (MRL)

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Annex A (normative)

Cloud service provider disclosure

The form is to be completed for each cloud service provided. For questions not applicable or not disclosed, the public Cloud Service Provider shall indicate accordingly with remarks.

Cloud Service Provider Contact Information	
Company name: Google Asia Pacific Pte Ltd. Primary address: <u>70 Pasir Panjang Road #03-71,</u> <u>Mapletree Business City II</u> <u>Singapore, 117371</u> Web address: https://cloud.google.com Contact name: _____ Contact number: _____ MTCS certificate number: _____	
Company stamp: 	DocuSigned by:  Signature of company representative: _____ DocuSigned by:  B0A6790040864C0...
Certification Body Contact Information	
Company name: <u>EY CertifyPoint</u> Web address: http://www.ey.com/gl/en/services/specialty-services/certifypoint Contact name: <u>Jatin Sehgal</u> Contact email: jatin.sehgal@nl.ey.com Company stamp: 	
Company stamp: _____	Signature of lead auditor:  _____
Cloud Service Provider Background	
Overview of service offering: Google Cloud lets you focus on what's next for your business. Google Cloud frees you from the overhead of managing infrastructure, provisioning servers and configuring networks. To let innovators innovate and let coders, well, just code. From Gmail to Docs, Drive, and Calendar, collaborate with Google Cloud anytime, anywhere across your computer, phone, and tablet. Service model: <input type="checkbox"/> Virtual machine instances owned by the user <input type="checkbox"/> Network facilities <input checked="" type="checkbox"/> Compliance with applicable standards	

Deployment model: <input type="checkbox"/> Private cloud <input type="checkbox"/> Community cloud <input type="checkbox"/> Hybrid cloud <input checked="" type="checkbox"/> Public cloud Tier: <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input checked="" type="checkbox"/> Level 3			
No.	Criteria	Description	Remarks
Legal and Compliance			
1.	Right to audit	<p>The user has the right to audit:</p> <input type="checkbox"/> Virtual machine instances owned by the user <input type="checkbox"/> Network facilities <input type="checkbox"/> Compliance with applicable standards <input type="checkbox"/> Technical controls <input type="checkbox"/> Policies and governance <input type="checkbox"/> Data centre facilities <input checked="" type="checkbox"/> Others <u>Right to audit is specific to customer contractual terms</u> <input type="checkbox"/> None <p>Regulators recognised by Singapore law have the right to audit:</p> <input type="checkbox"/> Virtual machine instances owned by the user <input type="checkbox"/> Network facilities <input type="checkbox"/> Compliance with applicable standards <input type="checkbox"/> Technical controls <input type="checkbox"/> Policies and governance <input type="checkbox"/> Data centre facilities <input type="checkbox"/> Others _____ <input checked="" type="checkbox"/> None <p>Audit / assessment reports that can be made available on request:</p> <input type="checkbox"/> Penetration test <input type="checkbox"/> Threat and vulnerability risk assessment <input type="checkbox"/> Vulnerability scan <input checked="" type="checkbox"/> Audit reports (e.g. Statement on Standards for Attestation Engagements (SSAE) No. 16, Reporting on Controls at a Service Organisation)	<p>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 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 compliance and data-processing needs.</p> <p>Google will allow customers or an independent auditor appointed by the</p>

			Customer to conduct audits to verify Google's compliance with its obligations under our terms, as indicated in our Data Protection Agreement (section 7.5.2).
2.	Compliance	<p>The following guidelines / standards / regulations are adhered to:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Singapore Personal Data Protection Act <input checked="" type="checkbox"/> ISO / IEC 27001 <input type="checkbox"/> ISO 9000 <input type="checkbox"/> ISO / IEC 20000 <input checked="" type="checkbox"/> CSA Open Certification Framework <input type="checkbox"/> PCI-DSS <input type="checkbox"/> Others _____ 	<p>Google is committed to protecting your organization's data. We undergo several independent third-party audits on a regular basis. For the complete and updated list, please visit https://cloud.google.com/security/compliance</p> <p>Google reviews the Information Security Policy annually and has processes in place to ensure that Information Security Policies and supporting guidance are current and aligned with the needs of the organization. As such, we believe we are addressing the risk for which clause 6.5.3a is intended.</p> <p>Google performs periodic evaluations of Cloud Service delivery and performs background checks on new hires, where background checks are allowed. As such, we believe we have addressed the risk for which clause 7.1.4a is intended.</p>
Data Control			
3.	Data ownership	All data on the cloud service is owned by the cloud user except	Google does not use user data for any

		<p>for: _____</p> <p>The cloud User retains the ownership on the derived data or attributes of cloud usage except for the following:</p> <p><input type="checkbox"/> Advertising or marketing</p> <p><input checked="" type="checkbox"/> Statistics analysis on usage</p> <p><input type="checkbox"/> Others _____</p>	<p>marketing or advertising purposes.</p>
<p>4.</p>	<p>Data retention</p>	<p>Data deleted by the user is retained as follows:</p> <p><input checked="" type="checkbox"/> Minimum data retention period is: <u>30 days</u></p> <p><input checked="" type="checkbox"/> Maximum data retention period is: <u>180 days</u></p> <p><input type="checkbox"/> Deleted immediately</p> <p>Log data is retained for a period of:</p> <p><input type="checkbox"/> Minimum data retention period as follows: _____</p> <p><input type="checkbox"/> Maximum data retention period is: _____</p> <p><input type="checkbox"/> Not retained</p> <p>User data is retained for a period of:</p> <p><input type="checkbox"/> Minimum data retention period is: _____</p> <p><input type="checkbox"/> Maximum data retention period is: _____</p> <p><input type="checkbox"/> Not retained</p> <p>The following types of data are available for download by the cloud user:</p> <p><input checked="" type="checkbox"/> Log data</p> <p><input checked="" type="checkbox"/> Other <u>any user data</u></p>	<p>Please refer to https://cloud.google.com/terms/data-processing/terms#7-data-correctionblocking-exporting-and-deletion for more details</p> <p>https://gsuite.google.com/terms/dpa_terms.html</p> <p>Log data is retained for one year.</p>
<p>5.</p>	<p>Data sovereignty</p>	<p>The primary data locations are:</p> <p><input type="checkbox"/> Singapore</p> <p><input type="checkbox"/> Asia Pacific _____</p> <p><input type="checkbox"/> Europe _____</p> <p><input type="checkbox"/> United States</p> <p><input checked="" type="checkbox"/> Other:</p> <p>https://cloud.google.com/about/locations/#regions-tab</p> <p>https://gsuite.google.com/security/?secure-by-design_activeEl=data-centers</p> <p>The backup data locations are:</p> <p><input type="checkbox"/> Singapore</p> <p><input type="checkbox"/> Asia Pacific _____</p> <p><input type="checkbox"/> Europe _____</p> <p><input type="checkbox"/> United States</p> <p><input checked="" type="checkbox"/> Other <u>see above</u></p>	<p>GCP</p> <p>For Google Cloud Platform services, customers may select where their data will be stored (the "Data Location Selection"), and Google will store it there in accordance with the Service Specific Terms. If a Data Location Selection is not covered by the Service Specific Terms (or a Data Location</p>

		<p>No. of countries in which data centres are operated: _____</p> <p>The user's data stored in the cloud environment will never leave the locations specified in item 5:</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> Yes, except as required by law <input type="checkbox"/> Yes, except as noted: _____ <input checked="" type="checkbox"/> No</p> <p>User's consent is required prior to transferring data to a location not specified in item 5 or a third party:</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes, except as required by law <input type="checkbox"/> Yes, except as noted: _____ <input type="checkbox"/> No</p> <p>Note: Cloud users are responsible for determining the impact of data protection and data sovereignty laws on the locations where data is stored. In addition, users 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.</p>	<p>Selection is not made by Customer in respect of any Customer Data), Google may store and process the relevant Customer Data anywhere Google or its Subprocessors maintains Facilities.</p> <p>Google stores data in a multi-tenant environment on Google-owned servers. The data and file system architecture are replicated between multiple geographically dispersed data centers. https://cloud.google.com/about/locations/#region-s-tab</p> <p>G Suite</p> <p>Per section 1.1 of the G Suite TOS, G Suite, as part of providing the services may transfer, store, and process customer data in countries where Google maintains facilities. To review our current list of datacenter locations where G Suite data is located, please see: https://www.google.com/about/datacenters/inside/locations/index.html</p>
6.	Non-disclosure	<p><input checked="" type="checkbox"/> Non-disclosure agreement template can be provided by Cloud Service Provider</p> <p><input checked="" type="checkbox"/> Cloud Service Provider may use customer's</p>	<p>Google ensures that a non-disclosure agreement is in</p>

		<p>NDA (pending legal review)</p>	<p>place before sharing any confidential information with any customer. Google will also work with the customer if they request to use their NDA template</p>
<p>Provider Performance</p>			
<p>7.</p>	<p>Availability</p>	<p>The committed network uptime is: <input type="checkbox"/> _____% <input type="checkbox"/> Varies according to price plan</p> <p>The committed system uptime is: <input type="checkbox"/> _____% <input type="checkbox"/> Varies according to price plan</p> <p>The cloud environment has the following single points of failure: <input type="checkbox"/> _____ <input type="checkbox"/> none</p>	<p>https://cloud.google.com/terms/sla/</p> <p>https://gsuite.google.com/intl/en/terms/sla.html</p>
<p>8.</p>	<p>BCP / DR</p>	<p><input checked="" type="checkbox"/> Disaster recovery protection <input checked="" type="checkbox"/> Backup and restore service <input type="checkbox"/> User selectable backup plans <input type="checkbox"/> Escrow arrangements <input type="checkbox"/> No BCP / DR is available <input type="checkbox"/> RPO _____ <input type="checkbox"/> RTO _____ <input type="checkbox"/> Others, please specify: _____ _____</p>	<p>Google replicates data over multiple systems to help protect against accidental destruction or loss. Refer to SLAs https://cloud.google.com/terms/sla/ https://gsuite.google.com/intl/en/terms/sla.html</p>
<p>9.</p>	<p>Liability</p>	<p>The following terms are available for the users on failure of the provider to meet the service commitment:</p> <p><input type="checkbox"/> Network failure</p> <p>Liability: _____</p> <p><input type="checkbox"/> Infrastructure failure</p>	<p>Google shall use all reasonable commercial efforts to ensure that all the GCP services are operated and available to customers 99.5% or more of the time in any</p>

		<p>Liability: _____</p> <p><input type="checkbox"/> Virtual machine instance failure</p> <p>Liability: _____</p> <p><input type="checkbox"/> Migrations</p> <p>Liability: _____</p> <p><input type="checkbox"/> Unscheduled downtime</p> <p>Liability: _____</p> <p><input type="checkbox"/> Database failure</p> <p>Liability: _____</p> <p><input type="checkbox"/> Monitoring failure</p> <p>Liability: _____</p>	<p>calendar month. In the event Customer experiences any of the service performance issues defined below due to Google's failure to provide Services, Customer will be eligible to receive the Service Credits described below:</p> <p>https://cloud.google.com/terms/sla/</p> <p>During the Term of the applicable G Suite Agreement, the G Suite Covered Services web interface will be operational and available to Customer at least 99.9% of the time in any calendar month (the "G Suite SLA"). If Google does not meet the G Suite SLA, and if Customer meets its obligations under this G Suite SLA, Customer will be eligible to receive the Service Credits described below. This G Suite SLA states Customer's sole and exclusive remedy for any failure by Google to meet the G Suite SLA.</p> <p>https://gsuite.google.com/terms/sla/</p>
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			m/intl/en/terms/sla.html
Service Support			
10.	Change Management	<p>The Cloud Service Provider has established the following for changes, migrations, downtime, and other potential interruptions to cloud services:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Communication plan and procedures for proactive notification <input checked="" type="checkbox"/> Assistance in migration to new services when legacy solutions are discontinued <input type="checkbox"/> Ability to remain on old versions for a defined time period <input type="checkbox"/> Ability to choose timing of impact . 	<p>https://cloud.google.com/terms/tssg/</p> <p>https://gsuite.google.com/intl/en/terms/standard_terms.html</p> <p>https://gsuite.google.com/intl/en_in/terms/2013/1/premier_terms.html</p>
11.	Self-service provisioning And management portal	<p>Provide self-service provisioning and management portal for users to manage cloud services:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <p>If yes, describe the functions of the self-service provisioning and management portal provided:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Allow role-based access control (RBAC) <input checked="" type="checkbox"/> Manage resource pools (e.g. VMs, storage, and network) and service templates <input checked="" type="checkbox"/> Track and manage the lifecycle of each service <input checked="" type="checkbox"/> Track consumption of services <input type="checkbox"/> Others: _____ 	<p>Google's self service platform provides users the ability to administer users of the services. Additionally, Cloud users are able to manage resource pools through the consoles and track usage statistics.</p>
12.	Incident and problem management	<p>Delivery mode of support:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Access via email <input checked="" type="checkbox"/> Access via portal <input checked="" type="checkbox"/> Access via phone support <input checked="" type="checkbox"/> Direct access to support engineers <p>Availability of support:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 24 x 7 <input type="checkbox"/> During office hours support, please specify the hours of operations: _____ <input type="checkbox"/> After office hours support, please specify the hours of operations: _____ <p>Service response time: _____</p>	<p>https://cloud.google.com/support/?options=premium-support#options</p> <p>https://gsuite.google.com/support/</p>

		<p>The following are available to users upon request:</p> <p><input type="checkbox"/> Permanent access to audit records of customer instances</p> <p><input checked="" type="checkbox"/> Incident management assistance</p> <p>Incident response time: _____</p> <p>Mean time to repair on detection of faults: _____</p>	
13.	Billing	<p>The following billing modes are available (please elaborate granularity of charges and measurement):</p> <p><input checked="" type="checkbox"/> Pay per usage _____ (up to per min/hour/day/month for compute/storage for IaaS/PaaS, and per user per hour/day/month/year for SaaS)</p> <p><input type="checkbox"/> Fixed pricing _____ (up to yearly/monthly/daily)</p> <p><input type="checkbox"/> Other pricing model _____</p> <p><input type="checkbox"/> Not disclosed</p> <p><input type="checkbox"/> Available billing history: _____ Months</p>	<p>Information about Google Cloud & G Suite Pricing may be found at</p> <p>https://cloud.google.com/pricing/</p> <p>https://gsuite.google.com/pricing.html</p>
14.	Data portability	<p>Importable VM formats: _____</p> <p>Downloadable formats: _____</p> <p>Supported operating systems: _____</p> <p>Language versions of supported operating systems: _____</p> <p>Supported database formats: _____</p> <p>API:</p> <p><input type="checkbox"/> Common _____</p> <p><input type="checkbox"/> Customised _____</p> <p>Upon service termination, data is available through:</p> <p><input type="checkbox"/> Physical media</p> <p><input checked="" type="checkbox"/> Standard methods as described above</p> <p><input checked="" type="checkbox"/> Other methods _____</p>	<p>https://cloud.google.com/migrate/</p> <p>https://cloud.google.com/solutions/best-practices-migrating-vm-to-compute-engine</p> <p>https://support.google.com/accounts/answer/3024190?hl=en</p> <p>https://cloud.google.com/security/gdpr/</p>
15.	Access	<p>Type of access to the service is through:</p> <p><input checked="" type="checkbox"/> Public access</p>	<p>In addition to the methods to the left, Google also offers</p>

		<p><input checked="" type="checkbox"/> Private access (e.g. VPN, dedicated link)</p> <p><input checked="" type="checkbox"/> IPv6 access is supported</p> <p><input checked="" type="checkbox"/> Other access methods <u>Google Interconnect</u></p> <p>Public access speed (shared bandwidth) in Mbps:</p> <hr/>	<p>Interconnect to its GCP customers. https://cloud.google.com/interconnect/</p> <p>Google Cloud Interconnect allows Google Cloud Platform customers to connect to Google via enterprise-grade connections with higher availability and/or lower latency than 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.</p> <p>https://cloud.google.com/interconnect/</p>
16.	User management	<p><input checked="" type="checkbox"/> Identity management</p> <p><input checked="" type="checkbox"/> Role based access control</p> <p><input checked="" type="checkbox"/> Federated access model</p> <p><input checked="" type="checkbox"/> Integration with Identity management solutions</p> <p><input type="checkbox"/> Others: _____</p>	<p>Google offers Cloud Identity & Access management that allows administrators authorize who can take action on specific resources, giving them full control and visibility to manage cloud</p>

			<p>resources centrally. 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.</p> <p>https://cloud.google.com/iam/ https://cloud.google.com/identity/</p> <p>Below clauses are not applicable: Clause 22.12 is not applicable as third party admins do not have access Clause 22.13 is not applicable as service and application accounts are not used Clause 23.2 is not applicable as user access security is a shared responsibility between Google & Customer https://cloud.google.com/terms/data-processing-terms</p> <p>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</p>
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			<p>22. Google has provided 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. Google employs robust, proprietary services and mechanisms to encrypt G Suite user data, as such, we believe we are addressing the risk for which clause 24.6.4a is intended.</p>
17.	Lifecycle	<p>The cloud user may select the following for service upgrades and changes:</p> <p><input checked="" type="checkbox"/> Automatic provisioning <input type="checkbox"/> User customisable provisioning</p>	<p>https://cloud.google.com/identity/solutions/automate-user-provisioning</p>
<p>Security Configurations</p>			
18.	Security configuration enforcement checks	<p>Security configuration enforcement checks are performed:</p> <p><input type="checkbox"/> Manually <input checked="" type="checkbox"/> Using automated tools</p> <p>How often are enforcement checks being performed to ensure all security configurations are applied? <hr/></p>	<p>https://cloud.google.com/terms/data-processing-terms#7-data-correction-blocking-exporting-and-deletion</p> <p>https://cloud.google.com/terms/data-processing-terms#appendix-2-security-measures https://gsuite.google.com/terms/dpa_terms.html</p>
19.	Multi-tenancy	<p><input type="checkbox"/> Distinct physical hosts <input type="checkbox"/> Distinct physical network infrastructure <input checked="" type="checkbox"/> Virtual instance grouping <input checked="" type="checkbox"/> User definable security domains</p>	<p>https://cloud.google.com/terms/data-processing-terms</p>

		<input checked="" type="checkbox"/> User customisable firewall <input checked="" type="checkbox"/> User definable access policies	
Service Elasticity			
20.	Capacity elasticity	<p>The following capacity elasticity options are available:</p> <input checked="" type="checkbox"/> Programmatic interface to scale up or down <input type="checkbox"/> Mean time to start and end new virtual instances _____ <input checked="" type="checkbox"/> Alerts to be sent for unusual high usage <input type="checkbox"/> Minimum performance during peak periods _____ <input type="checkbox"/> Minimum duration to scale up computing resources _____ <input checked="" type="checkbox"/> Minimum additional capacity guaranteed per account <u>2TB</u> (number of cores and GB memory)	<p>Google's Instance groups offers its GCP customers the managed groups that can automatically scale the number of instances in the group, work with load balancing services to distribute traffic to all of the instances in the group and automatically recreates the instance in the event of an incident. In addition to the automatic load balancing, Google also offers Health Checks that checks the health of the instance and the server.</p> <p>https://cloud.google.com/compute/docs/instance-groups/</p> <p>https://cloud.google.com/compute/docs/load-balancing/health-checks</p>
21.	Network resiliency and elasticity	<p>The following network resiliency and elasticity options are available:</p> <input checked="" type="checkbox"/> Redundant Internet connectivity links <input checked="" type="checkbox"/> Redundant Internal connectivity <input type="checkbox"/> Selectable bandwidth up to _____ Mbps <input type="checkbox"/> Maximum usable IPs _____ <input type="checkbox"/> Load balancing ports _____ <input type="checkbox"/> Load balancing protocols _____	

		<input checked="" type="checkbox"/> Anti-DDOS protection systems or services <input type="checkbox"/> Defence-in-depth mechanisms, please specify: _____ <input type="checkbox"/> Defence-in-depth mechanisms, please specify: _____ <input type="checkbox"/> Shared or dedicated bandwidth, please specify: _____ <input type="checkbox"/> QoS traffic control services <input checked="" type="checkbox"/> Alerts to be sent for unusual high usage <input type="checkbox"/> Minimum performance during peak periods _____ <input type="checkbox"/> Minimum period to scale up network throughput _____	
22.	Storage redundancy and elasticity	The following storage redundancy and elasticity options are available: <input checked="" type="checkbox"/> Redundant storage connectivity links within each data centre <input checked="" type="checkbox"/> Redundant storage connectivity links between data centres belonging to the same cloud <input type="checkbox"/> Storage traffic isolation, please specify: _____ <input type="checkbox"/> Shared or dedicated storage network bandwidth, please specify: _____ <input type="checkbox"/> Quality of service storage traffic control services <input type="checkbox"/> Maximum storage capacity for entire cloud, please specify: _____ <input type="checkbox"/> Maximum storage capacity for single user, please specify: _____ <input type="checkbox"/> Maximum expandable storage, please specify: _____ <input checked="" type="checkbox"/> Alerts to be sent for unusual high usage <input type="checkbox"/> Minimum storage I / O performance during peak periods _____ <input type="checkbox"/> Minimum period to scale up storage I / O throughput _____	Google offers various storage options to customers based on their needs (https://cloud.google.com/storage/) https://support.google.com/googlecloud/answer/6056635?hl=en&ref_to_pic=6055719 MTCS Standard, Clause 24.5 is not applicable