

ISO/IEC 27017:2026-07 (E)

Information security, cybersecurity and privacy protection - Information security controls based on ISO/IEC 27002 for cloud services

Contents

Page

Foreword	vi
Introduction	vii
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	1
3.1 Terms and definitions	1
3.2 Abbreviated terms	2
4 Guidance for using this document	2
4.1 Relation between this document and ISO/IEC 27002:2022	2
4.2 Structure of this document	3
4.3 Cloud computing specific concepts	3
4.3.1 Supplier relationships in cloud services	3
4.3.2 Relationships between CSCs and CSPs	3
4.3.3 Managing information security risks in cloud services	4
5 Cloud services specific guidance related to organizational controls	5
5.1 Policies for information security	5
5.2 Information security roles and responsibilities	6
5.3 Segregation of duties	6
5.4 Management responsibilities	6
5.5 Contact with authorities	6
5.6 Contact with special interest groups	6
5.7 Threat intelligence	7
5.8 Information security in project management	7
5.9 Inventory of information and other associated assets	7
5.10 Acceptable use of information and other associated assets	7
5.11 Return of assets	8
5.12 Classification of information	8
5.13 Labelling of information	8
5.14 Information transfer	8
5.15 Access control	8
5.16 Identity management	8
5.17 Authentication information	9
5.18 Access rights	9
5.19 Information security in supplier relationships	9
5.20 Addressing information security within supplier agreements	10
5.21 Managing information security in the ICT supply chain	10
5.22 Monitoring, review and change management of supplier services	11
5.23 Information security for use of cloud services	11
5.24 Information security incident management planning and preparation	11
5.25 Assessment and decision on information security events	11
5.26 Response to information security incidents	12
5.27 Learning from information security incidents	12
5.28 Collection of evidence	12
5.29 Information security during disruption	12
5.30 ICT readiness for business continuity	12

5.31	Legal, statutory, regulatory and contractual requirements	13
5.32	Intellectual property rights	14
5.33	Protection of records	14
5.34	Privacy and protection of PII	14
5.35	Independent review of information security	14
5.36	Compliance with policies, rules and standards for information security	15
5.37	Documented operating procedures	15
5.38	CLD - Shared roles and responsibilities within a cloud computing environment	15
5.39	CLD - Agreement on the roles and responsibilities of the cloud service partner	16
6	Cloudservicespecificguidancerelatedtopeoplecontrols	17
6.1	Screening	17
6.2	Terms and conditions of employment	18
6.3	Information security awareness, education and training	18
6.4	Disciplinary process	18
6.5	Responsibilities after termination or change of employment	18
6.6	Confidentiality or non-disclosure agreements	18
6.7	Remote working	18
6.8	Information security event reporting	19
7	Cloudservicespecificguidancerelatedtophysicalcontrols	19
7.1	Physical security perimeters	19
7.2	Physical entry	19
7.3	Securing offices, rooms and facilities	19
7.4	Physical security monitoring	19
7.5	Protecting against physical and environmental threats	19
7.6	Working in secure areas	19
7.7	Clear desk and clear screen	19
7.8	Equipment siting and protection	19
7.9	Security of assets off-premises	20
7.10	Storage media	20
7.11	Supporting utilities	20
7.12	Cabling security	20
7.13	Equipment maintenance	20
7.14	Secure disposal or re-use of equipment	20
8	Cloudservicespecificguidancerelatedtotechnologicalcontrols	20
8.1	User endpoint devices	20
8.2	Privileged access rights	21
8.3	Information access restriction	21
8.4	Access to source code	21
8.5	Secure authentication	21
8.6	Capacity management	22
8.7	Protection against malware	22
8.8	Management of technical vulnerabilities	22
8.9	Configuration management	23
8.10	Information deletion	23
8.11	Data masking	24
8.12	Data leakage prevention	24
8.13	Information backup	24
8.14	Redundancy of information processing facilities	25
8.15	Logging	25
8.16	Monitoring activities	26
8.17	Clock synchronization	26
8.18	Use of privileged utility programs	27
8.19	Installation of software on operational systems	27
8.20	Network security	27
8.21	Security of network services	27
8.22	Segregation of networks	28
8.23	Web filtering	28

8.24	Use of cryptography	28
8.25	Secure development life cycle	28
8.26	Application security requirements	29
8.27	Secure system architecture and engineering principles	29
8.28	Secure coding	29
8.29	Security testing in development and acceptance	29
8.30	Outsourced development	29
8.31	Separation of development, test and production environments	29
8.32	Change management	29
8.33	Test information	30
8.34	Protection of information systems during audit and testing	30
8.35	CLD - Segregation in virtual computing environments	30
8.36	CLD - Detection and prevention of unauthorized use of cloud services	31
Annex A (Informative)Correspondencebetweenthisdocumentandthefirstedition(ISO/IEC 27017:2015)		33
Annex B (informative) Monitoring of cloud services		38
Bibliography		39