



Information Security Manual

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Guidelines for System Management

System administration

System administration of cloud services

System administration of cloud services brings unique challenges when compared to system administration of on-premises assets. Notably, responsibility for system administration of cloud services is often shared between service providers and their customers. As the system administration processes and procedures implemented by service providers are often opaque to their customers, customers should consider a service provider's control plane to operate within a different security domain.

System administration processes and procedures

A key component of system administration is ensuring that administrative activities are undertaken in a repeatable and accountable manner using system administration processes and procedures. In doing so, requirements for administrative activities may cover:

- configuring applications, operating systems, network devices or other information technology (IT) equipment
- applying patches, updates or vendor mitigations to applications, drivers, operating systems or firmware
- installing or removing applications, operating systems, network devices or other IT equipment
- implementing system changes or enhancements
- resolving problems identified by users.

Furthermore, in support of change management processes and procedures, system administrators should document requirements for administrative activities, consider potential security impacts, obtain any necessary approvals, notify users of any disruptions or outages, and maintain system and security documentation.

Control: ISM-0042; Revision: 6; Updated: Dec-22; Applicability: All; Essential Eight: N/A

System administration processes, and supporting system administration procedures, are developed, implemented and maintained.

Control: ISM-1211; Revision: 5; Updated: Mar-22; Applicability: All; Essential Eight: N/A

System administrators document requirements for administrative activities, consider potential security impacts, obtain any necessary approvals, notify users of any disruptions or outages, and maintain system and security documentation.

Separate privileged operating environments

One of the greatest threats to the security of networks is the compromise of privileged user accounts. Providing a separate privileged operating environment for system administrators, in addition to their unprivileged operating environment, makes it much harder for administrative activities and privileged user accounts to be compromised by malicious actors.

Using different physical workstations, with one being a dedicated Secure Admin Workstation, is the most secure approach to separating privileged and unprivileged operating environments for system administrators. However, a trusted and hardened virtualisation-based solution may be sufficient for separating privileged and unprivileged operating environments on the same Secure Admin Workstation. In such cases, privileged operating environments should not be virtualised within unprivileged operating environments.

Control: ISM-1898; Revision: 0; Updated: Dec-23; Applicability: All; Essential Eight: ML3

Secure Admin Workstations are used in the performance of administrative activities.

Control: ISM-1380; Revision: 5; Updated: Sep-21; Applicability: All; Essential Eight: ML1, ML2, ML3

Privileged users use separate privileged and unprivileged operating environments.

Control: ISM-1687; Revision: 0; Updated: Sep-21; Applicability: All; Essential Eight: ML2, ML3

Privileged operating environments are not virtualised within unprivileged operating environments.

Control: ISM-1688; Revision: 1; Updated: Sep-24; Applicability: All; Essential Eight: ML1, ML2, ML3

Unprivileged user accounts cannot logon to privileged operating environments.

Control: ISM-1689; Revision: 1; Updated: Sep-24; Applicability: All; Essential Eight: ML1, ML2, ML3

Privileged user accounts (excluding local administrator accounts) cannot logon to unprivileged operating environments.

Control: ISM-1958; Revision: 0; Updated: Sep-24; Applicability: All; Essential Eight: N/A

User accounts with DCSync permissions cannot logon to unprivileged operating environments.

Administrative infrastructure

The security of administrative activities can be improved by segregating administrative infrastructure from the wider network and the internet. In doing so, the use of a jump server (also known as a jump host or jump box) that allows only necessary ports and services to be used can be an effective way of simplifying and securing administrative activities. Specifically, a jump server can provide filtering of network management traffic while also acting as a focal point to perform multi-factor authentication; store and manage administrative tools; and perform logging, monitoring and alerting activities. In addition, using separate jump servers for the administration of critical servers (such as Microsoft Active Directory Domain Services domain controllers, Microsoft Active Directory Certificate Services Certification Authority servers, Microsoft Active Directory Federation Services servers and Microsoft Entra Connect servers), high-value servers (such as Domain Name System servers, database servers, email servers, file servers and web servers) and regular servers can further assist in protecting these assets.

Control: ISM-1385; Revision: 4; Updated: Jun-23; Applicability: All; Essential Eight: N/A

Administrative infrastructure is segregated from the wider network and the internet.

Control: ISM-1750; Revision: 0; Updated: Mar-22; Applicability: All; Essential Eight: N/A

Administrative infrastructure for critical servers, high-value servers and regular servers is segregated from each other.

Control: ISM-1386; Revision: 5; Updated: Mar-22; Applicability: All; Essential Eight: N/A

Network management traffic can only originate from administrative infrastructure.

Control: ISM-1387; Revision: 2; Updated: Sep-21; Applicability: All; Essential Eight: ML2, ML3
Administrative activities are conducted through jump servers.

Control: ISM-1899; Revision: 0; Updated: Dec-23; Applicability: All; Essential Eight: N/A
Network devices that do not belong to administrative infrastructure cannot initiate connections with administrative infrastructure.

Further information

Further information on system administration can be found in the Australian Signals Directorate (ASD)'s [Secure Administration](#) publication.

Further information on the use of privileged user accounts for system administration activities can be found in the access to systems and their resources section of the [Guidelines for Personnel Security](#).

Further information on multi-factor authentication can be found in the authentication hardening section of the [Guidelines for System Hardening](#).

Further information on event logging can be found in the event logging and monitoring section of the [Guidelines for System Monitoring](#).

Further information on network segmentation and segregation can be found in the network design and configuration section of the [Guidelines for Networking](#).

System patching

Patch management processes and procedures

Applying patches or updates is critical to ensuring the ongoing security of applications, drivers, operating systems and firmware. In doing so, it is important that patches or updates are applied consistently and in a secure manner. For example, by using a centralised and managed approach that maintains the integrity of patches or updates and confirms that they have been applied successfully.

Control: ISM-1143; Revision: 9; Updated: Dec-22; Applicability: All; Essential Eight: N/A
Patch management processes, and supporting patch management procedures, are developed, implemented and maintained.

Control: ISM-0298; Revision: 8; Updated: Mar-22; Applicability: All; Essential Eight: N/A
A centralised and managed approach that maintains the integrity of patches or updates, and confirms that they have been applied successfully, is used to patch or update applications, operating systems, drivers and firmware.

Software register

To assist with monitoring information sources for details of relevant patches or updates, an organisation should develop, implement, maintain and regularly verify software registers for workstations, servers, network devices and other IT equipment.

Control: ISM-1493; Revision: 5; Updated: Jun-24; Applicability: All; Essential Eight: N/A
Software registers for workstations, servers, network devices and other IT equipment are developed, implemented, maintained and verified on a regular basis.

Control: ISM-1643; Revision: 0; Updated: Jun-21; Applicability: All; Essential Eight: N/A
Software registers contain versions and patch histories of applications, drivers, operating systems and firmware.

Scanning for unmitigated vulnerabilities

To ensure that patches or updates are being applied to applications, operating systems, drivers and firmware, it is essential that an organisation regularly identifies all assets within their environment using an automated method of asset discovery, such as an asset discovery tool or a vulnerability scanner with equivalent functionality. Following asset discovery, identified assets can be scanned for missing patches or updates using a vulnerability scanner with an up-to-date vulnerability database. Ideally, vulnerability scanning should be conducted in an automated manner and take place at twice the frequency in which patches or updates need to be applied. For example, if patches or updates are to be applied within two weeks of release then vulnerability scanning should be undertaken at least weekly.

Control: ISM-1807; Revision: 0; Updated: Dec-22; Applicability: All; Essential Eight: ML1, ML2, ML3

An automated method of asset discovery is used at least fortnightly to support the detection of assets for subsequent vulnerability scanning activities.

Control: ISM-1808; Revision: 0; Updated: Dec-22; Applicability: All; Essential Eight: ML1, ML2, ML3

A vulnerability scanner with an up-to-date vulnerability database is used for vulnerability scanning activities.

Control: ISM-1698; Revision: 1; Updated: Sep-23; Applicability: All; Essential Eight: ML1, ML2, ML3

A vulnerability scanner is used at least daily to identify missing patches or updates for vulnerabilities in online services.

Control: ISM-1699; Revision: 1; Updated: Sep-23; Applicability: All; Essential Eight: ML1, ML2, ML3

A vulnerability scanner is used at least weekly to identify missing patches or updates for vulnerabilities in office productivity suites, web browsers and their extensions, email clients, PDF software, and security products.

Control: ISM-1700; Revision: 2; Updated: Sep-23; Applicability: All; Essential Eight: ML2, ML3

A vulnerability scanner is used at least fortnightly to identify missing patches or updates for vulnerabilities in applications other than office productivity suites, web browsers and their extensions, email clients, PDF software, and security products.

Control: ISM-1701; Revision: 1; Updated: Sep-23; Applicability: All; Essential Eight: ML1, ML2, ML3

A vulnerability scanner is used at least daily to identify missing patches or updates for vulnerabilities in operating systems of internet-facing servers and internet-facing network devices.

Control: ISM-1702; Revision: 2; Updated: Dec-23; Applicability: All; Essential Eight: ML1, ML2, ML3

A vulnerability scanner is used at least fortnightly to identify missing patches or updates for vulnerabilities in operating systems of workstations, non-internet-facing servers and non-internet-facing network devices.

Control: ISM-1752; Revision: 4; Updated: Jun-24; Applicability: All; Essential Eight: N/A

A vulnerability scanner is used at least fortnightly to identify missing patches or updates for vulnerabilities in operating systems of IT equipment other than workstations, servers and network devices.

Control: ISM-1703; Revision: 2; Updated: Dec-23; Applicability: All; Essential Eight: ML3

A vulnerability scanner is used at least fortnightly to identify missing patches or updates for vulnerabilities in drivers.

Control: ISM-1900; Revision: 0; Updated: Dec-23; Applicability: All; Essential Eight: ML3

A vulnerability scanner is used at least fortnightly to identify missing patches or updates for vulnerabilities in firmware.

Control: ISM-1921; Revision: 0; Updated: Jun-24; Applicability: All; Essential Eight: N/A

The likelihood of system compromise is frequently assessed when working exploits exist for unmitigated vulnerabilities.

Mitigating known vulnerabilities

When patches or updates are released by vendors for vulnerabilities, an organisation should apply them in a timeframe commensurate with the likelihood of attempted exploitation by malicious actors. For example, by prioritising patches or updates for vulnerabilities in online services as well as operating systems of internet-facing servers and internet-facing network devices. This is especially important when vulnerabilities are assessed as critical by vendors or working exploits exist.

If no patches or updates are available for vulnerabilities, mitigation advice from vendors, trusted authorities or security researchers may provide some protection until patches or updates are made available. Such mitigation advice may be published in conjunction with, or soon after, announcements made relating to vulnerabilities. Mitigation advice may cover how to disable or block access to vulnerable functionality, how to reconfigure vulnerable functionality, or how to detect attempted or successful exploitation of vulnerable functionality.

If a patch or update is released for high assurance IT equipment, ASD will conduct an assessment of the patch or update. Subsequently, if the patch or update is approved for deployment, ASD will provide guidance on the methods and timeframes in which it is to be applied.

Control: ISM-1876; Revision: 0; Updated: Sep-23; Applicability: All; Essential Eight: ML1, ML2, ML3

Patches, updates or other vendor mitigations for vulnerabilities in online services are applied within 48 hours of release when vulnerabilities are assessed as critical by vendors or when working exploits exist.

Control: ISM-1690; Revision: 2; Updated: Dec-23; Applicability: All; Essential Eight: ML1, ML2, ML3

Patches, updates or other vendor mitigations for vulnerabilities in online services are applied within two weeks of release when vulnerabilities are assessed as non-critical by vendors and no working exploits exist.

Control: ISM-1691; Revision: 1; Updated: Sep-23; Applicability: All; Essential Eight: ML1, ML2

Patches, updates or other vendor mitigations for vulnerabilities in office productivity suites, web browsers and their extensions, email clients, PDF software, and security products are applied within two weeks of release.

Control: ISM-1692; Revision: 1; Updated: Sep-23; Applicability: All; Essential Eight: ML3

Patches, updates or other vendor mitigations for vulnerabilities in office productivity suites, web browsers and their extensions, email clients, PDF software, and security products are applied within 48 hours of release when vulnerabilities are assessed as critical by vendors or when working exploits exist.

Control: ISM-1901; Revision: 0; Updated: Dec-23; Applicability: All; Essential Eight: ML3

Patches, updates or other vendor mitigations for vulnerabilities in office productivity suites, web browsers and their extensions, email clients, PDF software, and security products are applied within two weeks of release when vulnerabilities are assessed as non-critical by vendors and no working exploits exist.

Control: ISM-1693; Revision: 2; Updated: Sep-23; Applicability: All; Essential Eight: ML2, ML3

Patches, updates or other vendor mitigations for vulnerabilities in applications other than office productivity suites, web browsers and their extensions, email clients, PDF software, and security products are applied within one month of release.

Control: ISM-1877; Revision: 0; Updated: Sep-23; Applicability: All; Essential Eight: ML1, ML2, ML3

Patches, updates or other vendor mitigations for vulnerabilities in operating systems of internet-facing servers and internet-facing network devices are applied within 48 hours of release when vulnerabilities are assessed as critical by vendors or when working exploits exist.

Control: ISM-1694; Revision: 2; Updated: Dec-23; Applicability: All; Essential Eight: ML1, ML2, ML3

Patches, updates or other vendor mitigations for vulnerabilities in operating systems of internet-facing servers and

internet-facing network devices are applied within two weeks of release when vulnerabilities are assessed as non-critical by vendors and no working exploits exist.

Control: ISM-1695; Revision: 2; Updated: Dec-23; Applicability: All; Essential Eight: ML1, ML2

Patches, updates or other vendor mitigations for vulnerabilities in operating systems of workstations, non-internet-facing servers and non-internet-facing network devices are applied within one month of release.

Control: ISM-1696; Revision: 1; Updated: Sep-23; Applicability: All; Essential Eight: ML3

Patches, updates or other vendor mitigations for vulnerabilities in operating systems of workstations, non-internet-facing servers and non-internet-facing network devices are applied within 48 hours of release when vulnerabilities are assessed as critical by vendors or when working exploits exist.

Control: ISM-1902; Revision: 0; Updated: Dec-23; Applicability: All; Essential Eight: ML3

Patches, updates or other vendor mitigations for vulnerabilities in operating systems of workstations, non-internet-facing servers and non-internet-facing network devices are applied within one month of release when vulnerabilities are assessed as non-critical by vendors and no working exploits exist.

Control: ISM-1878; Revision: 1; Updated: Jun-24; Applicability: All; Essential Eight: N/A

Patches, updates or other vendor mitigations for vulnerabilities in operating systems of IT equipment other than workstations, servers and network devices are applied within 48 hours of release when vulnerabilities are assessed as critical by vendors or when working exploits exist.

Control: ISM-1751; Revision: 4; Updated: Jun-24; Applicability: All; Essential Eight: N/A

Patches, updates or other vendor mitigations for vulnerabilities in operating systems of IT equipment other than workstations, servers and network devices are applied within one month of release when vulnerabilities are assessed as non-critical by vendors and no working exploits exist.

Control: ISM-1879; Revision: 1; Updated: Dec-23; Applicability: All; Essential Eight: ML3

Patches, updates or other vendor mitigations for vulnerabilities in drivers are applied within 48 hours of release when vulnerabilities are assessed as critical by vendors or when working exploits exist.

Control: ISM-1697; Revision: 2; Updated: Dec-23; Applicability: All; Essential Eight: ML3

Patches, updates or other vendor mitigations for vulnerabilities in drivers are applied within one month of release when vulnerabilities are assessed as non-critical by vendors and no working exploits exist.

Control: ISM-1903; Revision: 0; Updated: Dec-23; Applicability: All; Essential Eight: ML3

Patches, updates or other vendor mitigations for vulnerabilities in firmware are applied within 48 hours of release when vulnerabilities are assessed as critical by vendors or when working exploits exist.

Control: ISM-1904; Revision: 0; Updated: Dec-23; Applicability: All; Essential Eight: ML3

Patches, updates or other vendor mitigations for vulnerabilities in firmware are applied within one month of release when vulnerabilities are assessed as non-critical by vendors and no working exploits exist.

Control: ISM-0300; Revision: 10; Updated: Jun-24; Applicability: S, TS; Essential Eight: N/A

Patches, updates or other vendor mitigations for vulnerabilities in high assurance IT equipment are applied only when approved by ASD, and in doing so, using methods and timeframes prescribed by ASD.

Cessation of support

When applications, operating systems, network devices and other IT equipment reach their cessation date for support, and become legacy IT, an organisation will find it increasingly difficult to protect them against vulnerabilities as patches, updates and other forms of support will no longer be made available by vendors. As such, unsupported applications, operating systems, network devices and other IT equipment should be removed or replaced.

In planning for cessation of support, it is important to note that while vendors generally advise the cessation date for support of operating systems well in advance, some applications, network devices and other IT equipment may cease to receive support immediately after newer versions are released.

Finally, when the immediate removal or replacement of unsupported applications, operating systems, network devices or other IT equipment is not possible, compensating controls should be implemented until such time that they can be removed or replaced.

Control: ISM-1905; Revision: 0; Updated: Dec-23; Applicability: All; Essential Eight: ML1, ML2, ML3
Online services that are no longer supported by vendors are removed.

Control: ISM-1704; Revision: 2; Updated: Dec-23; Applicability: All; Essential Eight: ML1, ML2, ML3
Office productivity suites, web browsers and their extensions, email clients, PDF software, Adobe Flash Player, and security products that are no longer supported by vendors are removed.

Control: ISM-0304; Revision: 7; Updated: Dec-23; Applicability: All; Essential Eight: ML3
Applications other than office productivity suites, web browsers and their extensions, email clients, PDF software, Adobe Flash Player, and security products that are no longer supported by vendors are removed.

Control: ISM-1501; Revision: 1; Updated: Sep-21; Applicability: All; Essential Eight: ML1, ML2, ML3
Operating systems that are no longer supported by vendors are replaced.

Control: ISM-1753; Revision: 1; Updated: Jun-24; Applicability: All; Essential Eight: N/A
Network devices and other IT equipment that are no longer supported by vendors are replaced.

Control: ISM-1809; Revision: 1; Updated: Jun-24; Applicability: All; Essential Eight: N/A
When applications, operating systems, network devices or other IT equipment that are no longer supported by vendors cannot be immediately removed or replaced, compensating controls are implemented until such time that they can be removed or replaced.

Further information

Further information on system patching can be found in ASD's [Patching Applications and Operating Systems](#) publication.

Further information on patching evaluated products can be found in the evaluated product usage section of the [Guidelines for Evaluated Products](#).

Further information on managing risks associated with legacy IT can be found in ASD's [Managing the Risks of Legacy IT: Executive Guidance](#) and [Managing the Risks of Legacy IT: Practitioner Guidance](#) publications.

Further information on cessation of support for Microsoft Windows operating systems, including potential compensating controls for use beyond their cessation date for support, can be found in ASD's [End of Support for Microsoft Windows and Microsoft Windows Server](#) publication.

Further information on hardening user applications can be found in the user application hardening section of the [Guidelines for System Hardening](#).

Further information on hardening server applications can be found in the server application hardening section of the [Guidelines for System Hardening](#).

Data backup and restoration

Digital preservation policy

Developing, implementing and maintaining a digital preservation policy, as part of digital continuity planning, can assist in ensuring the long-term integrity and availability of data is maintained, especially when taking into account the potential for data degradation and removable media, hardware and software obsolescence.

Control: ISM-1510; Revision: 2; Updated: Dec-22; Applicability: All; Essential Eight: N/A

A digital preservation policy is developed, implemented and maintained.

Data backup and restoration processes and procedures

Having data backup and restoration processes and procedures is an important part of business continuity and disaster recovery planning. Such activities will also form an integral part of an overarching digital preservation policy.

Control: ISM-1547; Revision: 2; Updated: Dec-22; Applicability: All; Essential Eight: N/A

Data backup processes, and supporting data backup procedures, are developed, implemented and maintained.

Control: ISM-1548; Revision: 2; Updated: Dec-22; Applicability: All; Essential Eight: N/A

Data restoration processes, and supporting data restoration procedures, are developed, implemented and maintained.

Performing and retaining backups

To mitigate the security risk of losing system availability or data as part of a ransomware attack, or other form of destructive attack, backups of data, applications and settings should be performed and retained in accordance with an organisation's business criticality and business continuity requirements. In doing so, backups of all data, applications and settings should be synchronised to enable restoration to a common point in time. Furthermore, it is essential that all backups are retained in a secure and resilient manner. This will ensure that should a system fall victim to a ransomware attack, or other form of destructive attack, data will not be lost and, if necessary, systems can be quickly restored.

Control: ISM-1511; Revision: 4; Updated: Dec-23; Applicability: All; Essential Eight: ML1, ML2, ML3

Backups of data, applications and settings are performed and retained in accordance with business criticality and business continuity requirements.

Control: ISM-1810; Revision: 1; Updated: Dec-23; Applicability: All; Essential Eight: ML1, ML2, ML3

Backups of data, applications and settings are synchronised to enable restoration to a common point in time.

Control: ISM-1811; Revision: 1; Updated: Dec-23; Applicability: All; Essential Eight: ML1, ML2, ML3

Backups of data, applications and settings are retained in a secure and resilient manner.

Backup access

To mitigate the security risk of unauthorised access to backups, an organisation should ensure that access to backups is controlled through the use of appropriate access controls.

Control: ISM-1812; Revision: 1; Updated: Sep-24; Applicability: All; Essential Eight: ML1, ML2, ML3

Unprivileged user accounts cannot access backups belonging to other user accounts.

Control: ISM-1813; Revision: 1; Updated: Sep-24; Applicability: All; Essential Eight: ML3

Unprivileged user accounts cannot access their own backups.

Control: ISM-1705; Revision: 2; Updated: Sep-24; Applicability: All; Essential Eight: ML2, ML3

Privileged user accounts (excluding backup administrator accounts) cannot access backups belonging to other user accounts.

Control: ISM-1706; Revision: 2; Updated: Sep-24; Applicability: All; Essential Eight: ML3

Privileged user accounts (excluding backup administrator accounts) cannot access their own backups.

Backup modification and deletion

To mitigate the security risk of backups being accidentally or maliciously modified or deleted, an organisation should ensure that backups are sufficiently protected from unauthorised modification and deletion through the use of appropriate access controls during their retention period.

Control: ISM-1814; Revision: 1; Updated: Sep-24; Applicability: All; Essential Eight: ML1, ML2, ML3

Unprivileged user accounts are prevented from modifying and deleting backups.

Control: ISM-1707; Revision: 2; Updated: Sep-24; Applicability: All; Essential Eight: ML2, ML3

Privileged user accounts (excluding backup administrator accounts) are prevented from modifying and deleting backups.

Control: ISM-1708; Revision: 2; Updated: Dec-23; Applicability: All; Essential Eight: ML3

Backup administrator accounts are prevented from modifying and deleting backups during their retention period.

Testing restoration of backups

To ensure that backups can be restored when the need arises, and that any dependencies can be identified and managed beforehand, it is important that the restoration of data, applications and settings from backups to a common point in time is tested in a coordinated manner as part of disaster recovery exercises.

Control: ISM-1515; Revision: 4; Updated: Dec-23; Applicability: All; Essential Eight: ML1, ML2, ML3

Restoration of data, applications and settings from backups to a common point in time is tested as part of disaster recovery exercises.

Further information

Further information on [digital preservation planning](#) and [data retention](#) is available from the National Archives of Australia.

Further information on the collection and retention of personal information can be found in the Office of the Australian Information Commissioner's [Australian Privacy Principles](#) and the associated [Australian Privacy Principles guidelines](#).

Further information on business continuity and disaster recovery planning can be found in the Chief Information Security Officer section of the [Guidelines for Cyber Security Roles](#).

Disclaimer

The material in this guide is of a general nature and should not be regarded as legal advice or relied on for assistance in any particular circumstance or emergency situation. In any important matter, you should seek appropriate independent professional advice in relation to your own circumstances.

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