Essential Eight Maturity Model

Mitigation Strategy	Maturity Level One	Maturity Level Two	Maturity Level Three
Application whitelisting	An application whitelisting solution is implemented on all workstations to restrict the execution of executables to an approved set.	An application whitelisting solution is implemented on all workstations to restrict the execution of executables, software libraries, scripts and installers to an approved set.	An application whitelisting so executables, software librarie
	An application whitelisting solution is implemented on all servers to restrict the execution of executables to an approved set.	An application whitelisting solution is implemented on all servers to restrict the execution of executables, software libraries, scripts and installers to an approved set.	An application whitelisting so executables, software librarie
			Microsoft's latest recommen bypasses.
Patch applications	Security vulnerabilities in applications and drivers assessed as extreme risk are patched, updated or mitigated within one month of the security vulnerabilities being identified by vendors, independent third parties, system managers or users	Security vulnerabilities in applications and drivers assessed as extreme risk are patched, updated or mitigated within two weeks of the security vulnerabilities being identified by vendors, independent third parties, system managers or users	Security vulnerabilities in app mitigated within 48 hours of third parties system manage
	Applications that are no longer supported by vendors with patches or updates for security	Applications that are no longer supported by vendors with patches or updates for security	An automated mechanism is
	vulnerabilities are updated or replaced with vendor-supported versions.	vulnerabilities are updated or replaced with vendor-supported versions.	patches or updates have bee
			Applications that are no long vulnerabilities are updated or
Configure Microsoft Office macro settings	Microsoft Office macros are allowed to execute, but only after prompting users for approval.	Only signed Microsoft Office macros are allowed to execute.	Microsoft Office macros are o write access is limited to pers
	Microsoft Office macro security settings cannot be changed by users.	Microsoft Office macro security settings cannot be changed by users.	Microsoft Office macros in do
			Microsoft Office macro secur
User application hardening	Web browsers are configured to block or disable support for Flash content.	Web browsers are configured to block or disable support for Flash content. Web browsers are configured to block web advertisements.	Web browsers are configured
			Web browsers are configured
		Web browsers are configured to block Java from the Internet.	Web browsers are configured
			Microsoft Office is configured
			Microsoft Office is configured
Restrict administrative privileges	Privileged access to systems, applications and information is validated when first requested. Policy security controls are used to prevent privileged users from reading emails, browsing the Web and obtaining files via online services.	Privileged access to systems, applications and information is validated when first requested and revalidated on an annual or more frequent basis. Policy security controls are used to prevent privileged users from reading emails, browsing the Web and obtaining files via online services.	Privileged access to systems, revalidated on an annual or r
			Privileged access to systems, undertake their duties.
			Technical security controls ar Web and obtaining files via o
Patch operating systems	Security vulnerabilities in operating systems and firmware assessed as extreme risk are patched, updated or mitigated within one month of the security vulnerabilities being identified by vendors, independent third parties, system managers or users.	Security vulnerabilities in operating systems and firmware assessed as extreme risk are patched, updated or mitigated within two weeks of the security vulnerabilities being identified by vendors, independent third parties, system managers or users.	Security vulnerabilities in ope updated or mitigated within independent third parties, sy
	Operating systems for workstations, servers and ICT equipment that are no longer supported by vendors with patches or updates for security vulnerabilities are updated or replaced with vendor-supported versions.	Operating systems for workstations, servers and ICT equipment that are no longer supported by vendors with patches or updates for security vulnerabilities are updated or replaced with vendor-supported versions.	An automated mechanism is firmware patches or updates
			Operating systems for workst vendors with patches or upda supported versions.
Multi-factor	Multi-factor authentication is used to authenticate all users of remote access solutions.	Multi-factor authentication is used to authenticate all users of remote access solutions.	Multi-factor authentication is
authentication	Multi-factor authentication uses at least two of the following authentication factors: passwords with six or more characters, Universal 2nd Factor security keys, physical one-time password tokens, biometrics, smartcards, mobile app one-time password tokens, SMS messages, emails, voice calls or software certificates.	Multi-factor authentication is used to authenticate all privileged users and any other positions of trust. Multi-factor authentication uses at least two of the following authentication factors: passwords with six or more characters, Universal 2nd Factor security keys, physical one-time password tokens, biometrics, smartcards or mobile app one-time password tokens.	Multi-factor authentication is trust.
			Multi-factor authentication is
			Multi-factor authentication u
			six or more characters, Unive biometrics or smartcards.
Daily backups	Backups of important information, software and configuration settings are performed monthly.	Backups of important information, software and configuration settings are performed weekly.	Backups of important inform
	Backups are stored for between one to three months.	Backups are stored offline, or online but in a non-rewritable and non-erasable manner.	Backups are stored offline, or
	Partial restoration of backups is tested on an annual or more frequent basis.	Backups are stored for between one to three months.	Backups are stored for three
		Full restoration of backups is tested at least once.	Full restoration of backups is
		Partial restoration of backups is tested on a bi-annual or more frequent basis.	runuamental information tec

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- olution is implemented on all workstations to restrict the execution of es, scripts and installers to an approved set.
- olution is implemented on all servers to restrict the execution of es, scripts and installers to an approved set.
- nded block rules are implemented to prevent application whitelisting
- plications and drivers assessed as extreme risk are patched, updated or the security vulnerabilities being identified by vendors, independent ers or users.
- s used to confirm and record that deployed application and driver en installed, applied successfully and remain in place.
- ger supported by vendors with patches or updates for security or replaced with vendor-supported versions.
- only allowed to execute in documents from Trusted Locations where sonnel whose role is to vet and approve macros.
- ocuments originating from the Internet are blocked.
- rity settings cannot be changed by users.
- d to block or disable support for Flash content.
- d to block web advertisements.
- d to block Java from the Internet.
- d to disable support for Flash content.
- d to prevent activation of Object Linking and Embedding packages.
- , applications and information is validated when first requested and more frequent basis.
- applications and information is limited to that required for personnel to
- re used to prevent privileged users from reading emails, browsing the polline services.
- erating systems and firmware assessed as extreme risk are patched, 48 hours of the security vulnerabilities being identified by vendors, ystem managers or users.
- used to confirm and record that deployed operating system and s have been installed, applied successfully and remain in place.
- stations, servers and ICT equipment that are no longer supported by lates for security vulnerabilities are updated or replaced with vendor-
- s used to authenticate all users of remote access solutions. s used to authenticate all privileged users and any other positions of
- s used to authenticate all users when accessing important data
- uses at least two of the following authentication factors: passwords with ersal 2nd Factor security keys, physical one-time password tokens,
- nation, software and configuration settings are performed at least daily. or online but in a non-rewritable and non-erasable manner.
- months or greater.
- s tested at least once when initially implemented and each time chnology infrastructure changes occur.
- Partial restoration of backups is tested on a quarterly or more frequent basis.