



# TEST REPORT

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# Prerequisites

# Test reports

## Tests common\_security for virtu-ci1

Test ID	Tests	Results
SEAPATH-00106	Check /etc/shadow permissions	PASS
SEAPATH-00107	Check /etc/passwd permissions	PASS
SEAPATH-00108	Check /etc/syslog-ng/cert.d/clientkey.pem permissions	PASS
SEAPATH-00049	Check /etc/ssh/ssh_host_ed25519_key permissions	PASS
SEAPATH-00090	Check /etc/ssh/ssh_host_rsa_key permissions	PASS
SEAPATH-00176	All files have a known user and group	FAIL
SEAPATH-00088	root password was randomized at boot	PASS
SEAPATH-00089	root password is randomized at each boot	PASS
SEAPATH-00091	root password is encrypted with a crypto at least equivalent as sha512	PASS
SEAPATH-00092	bash timeout is set read-only to 300s	PASS
SEAPATH-00093	sshd forbids setting environment variables	PASS
SEAPATH-00094	sshd server time-out is set to 300s of client inactivity	PASS
SEAPATH-00095	shadow encrypts passwords with SHA512 by default	PASS
SEAPATH-00096	shadow encryption uses at least 65536 rounds	PASS
SEAPATH-00097	pam password authentication uses sha512 with 65536 rounds or yescrypt	PASS
SEAPATH-00098	password set to expire after 90 days	PASS
SEAPATH-00099	su is denied	PASS
SEAPATH-00100	/etc/securetty is empty	PASS
SEAPATH-00101	PAM securetty module is active in <i>login</i> policy	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : SECURITY_YAMA is enabled	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : DEBUG_WX is enabled	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : SECURITY_DMESG_RESTRICT is enabled	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : PAGE_TABLE_ISOLATION is enabled	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : RETPOLINE is enabled	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : LEGACY_VSYSCALL_NONE is enabled	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : SLAB_FREELIST_RANDOM is enabled	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : SLAB_FREELIST_HARDENED is enabled	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : HARDENED_USERCOPY is enabled	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : FORTIFY_SOURCE is enabled	PASS
SEAPATH-00050	Linux kernel <i>hardening</i> : PAGE_POISONING is enabled	PASS
SEAPATH-00170	Wipe slab and page allocations enabled on cmdline	PASS
SEAPATH-00174	Randomize kstack offset in on	PASS
SEAPATH-00175	Disable slab usercopy fallback	PASS
SEAPATH-00163	sudo policy is installed for group ansible (ansible)	PASS
SEAPATH-00164	sudo requires password for group operator (operator)	PASS
SEAPATH-00165	sudo requires password for group maintenance-N1 (maint-n1)	PASS

Test ID	Tests	Results
SEAPATH-00166	sudo requires password for group maintenance-N3 (maint-n3)	PASS
SEAPATH-00167	sudo requires password for group administrator (admincluster)	PASS
SEAPATH-00168	sudo requires password for group super-administrator (adminsyzs)	PASS
SEAPATH-00169	sudo requires password for group ansible (ansible)	PASS
SEAPATH-00103	/usr/bin/sudo exists	PASS
SEAPATH-00104	/usr/bin/sudo belongs to group privileged	PASS
SEAPATH-00105	/usr/bin/sudo has permissions 4750	PASS
SEAPATH-00148	/etc/sudoers include env_reset directive	PASS
SEAPATH-00150	/etc/sudoers all commands require authentication	PASS
SEAPATH-00152	/etc/sudoers EXEC option is not used	PASS
SEAPATH-00153	/etc/sudoers rules are not defined by negation	PASS
SEAPATH-00154	/etc/sudoers commands are not specified without arguments	PASS
SEAPATH-00155	/etc/sudoers no command is specified with wildcard argument	PASS
SEAPATH-00156	/etc/sudoers /etc/sudoers is owned by root:root with 0440 permissions	PASS
SEAPATH-00150	/etc/sudoers.d/virtu all commands require authentication	PASS
SEAPATH-00152	/etc/sudoers.d/virtu EXEC option is not used	PASS
SEAPATH-00153	/etc/sudoers.d/virtu rules are not defined by negation	PASS
SEAPATH-00154	/etc/sudoers.d/virtu commands are not specified without arguments	PASS
SEAPATH-00155	/etc/sudoers.d/virtu no command is specified with wildcard argument	PASS
SEAPATH-00156	/etc/sudoers.d/virtu /etc/sudoers.d/virtu is owned by root:root with 0440 permissions	PASS
SEAPATH-00150	/etc/sudoers.d/Debian-snmP all commands require authentication	PASS
SEAPATH-00152	/etc/sudoers.d/Debian-snmP EXEC option is not used	PASS
SEAPATH-00153	/etc/sudoers.d/Debian-snmP rules are not defined by negation	PASS
SEAPATH-00154	/etc/sudoers.d/Debian-snmP commands are not specified without arguments	PASS
SEAPATH-00155	/etc/sudoers.d/Debian-snmP no command is specified with wildcard argument	PASS
SEAPATH-00156	/etc/sudoers.d/Debian-snmP /etc/sudoers.d/Debian-snmP is owned by root:root with 0440 permissions	PASS
SEAPATH-00150	/etc/sudoers.d/ceph-osd-smartctl all commands require authentication	PASS
SEAPATH-00152	/etc/sudoers.d/ceph-osd-smartctl EXEC option is not used	PASS
SEAPATH-00153	/etc/sudoers.d/ceph-osd-smartctl rules are not defined by negation	PASS
SEAPATH-00154	/etc/sudoers.d/ceph-osd-smartctl commands are not specified without arguments	PASS
SEAPATH-00155	/etc/sudoers.d/ceph-osd-smartctl no command is specified with wildcard argument	PASS
SEAPATH-00156	/etc/sudoers.d/ceph-osd-smartctl /etc/sudoers.d/ceph-osd-smartctl is owned by root:root with 0440 permissions	PASS
SEAPATH-00150	/etc/sudoers.d/ansible all commands require authentication	PASS
SEAPATH-00152	/etc/sudoers.d/ansible EXEC option is not used	PASS
SEAPATH-00153	/etc/sudoers.d/ansible rules are not defined by negation	PASS
SEAPATH-00154	/etc/sudoers.d/ansible commands are not specified without arguments	PASS
SEAPATH-00155	/etc/sudoers.d/ansible no command is specified with wildcard argument	PASS
SEAPATH-00156	/etc/sudoers.d/ansible /etc/sudoers.d/ansible is owned by root:root with 0440 permissions	PASS
SEAPATH-00150	/etc/sudoers.d/admin all commands require authentication	PASS

Test ID	Tests	Results
SEAPATH-00152	/etc/sudoers.d/admin EXEC option is not used	PASS
SEAPATH-00153	/etc/sudoers.d/admin rules are not defined by negation	PASS
SEAPATH-00154	/etc/sudoers.d/admin commands are not specified without arguments	PASS
SEAPATH-00155	/etc/sudoers.d/admin no command is specified with wildcard argument	PASS
SEAPATH-00156	/etc/sudoers.d/admin /etc/sudoers.d/admin is owned by root:root with 0440 permissions	PASS
SEAPATH-00171	Check coredumps are disabled	PASS
SEAPATH-00172	Check kexec is disabled	PASS
SEAPATH-00173	Check binfmt_misc is disabled	PASS
SEAPATH-00082	/var/log is mounted on a separate partition	PASS
SEAPATH-00085	syslog-ng can not acquire new privileges	PASS
SEAPATH-00086	syslog-ng capabilities are bounded	PASS

- number of tests: 87
- number of failures: 1

## Tests hypervisorsecurity for virtu-ci1

Test ID	Tests	Results
SEAPATH-00033	/etc/group is consistent	PASS
SEAPATH-00033	/etc/gshadow is consistent	PASS
SEAPATH-00034	/etc/group does not include extra group	PASS
SEAPATH-00034	/etc/gshadow does not include extra group	PASS
SEAPATH-00008	Slab merging is disabled on cmdline	PASS
SEAPATH-00009	Kernel Page Table Isolation is always enabled on cmdline	PASS
SEAPATH-00010	SLUB redzoning and sanity checking enabled on cmdline	PASS
SEAPATH-00047	/etc/passwd is consistent	PASS
SEAPATH-00048	/etc/passwd does not include extra user	PASS
SEAPATH-00046	/etc/shadow is consistent	PASS
SEAPATH-00015	Vulnerabilities sysfs entry exist	PASS
SEAPATH-00017	System is not vulnerable to : meltdown	PASS
SEAPATH-00017	System is not vulnerable to : l1tf	PASS
SEAPATH-00017	System is not vulnerable to : spectre_v1	PASS
SEAPATH-00017	System is not vulnerable to : spectre_v2	PASS
SEAPATH-00012	admin user exists	PASS
SEAPATH-00013	admin has a password	PASS

- number of tests: 17
- number of failures: 0

## Tests hypervisoriommu for virtu-ci1

Test ID	Tests	Results
SEAPATH-00030	iommu enabled in passthrough mode	PASS
SEAPATH-00031	iommu is loaded	PASS
SEAPATH-00032	iommu is populated	PASS
SEAPATH-00050	Linux kernel <i>iommu</i> : INTEL_IOMMU is enabled	PASS
SEAPATH-00050	Linux kernel <i>iommu</i> : AMD_IOMMU is enabled	PASS
SEAPATH-00050	Linux kernel <i>iommu</i> : AMD_IOMMU_V2 is enabled	PASS
SEAPATH-00050	Linux kernel <i>iommu</i> : IOMMU_IOVA is enabled	PASS

- number of tests: 8
- number of failures: 0

## Tests cluster for virtu-ci1

Test ID	Tests	Results
SEAPATH-00129	ceph-crash system calls are filtered	PASS
SEAPATH-00130	ceph-mon system calls are filtered	PASS
SEAPATH-00131	ceph-mgr system calls are filtered	PASS
SEAPATH-00132	ceph-osd system calls are filtered	PASS
SEAPATH-00120	corosync can not acquire new privileges	PASS
SEAPATH-00121	corosync capabilities are bounded	PASS
SEAPATH-00128	corosync system calls are filtered	PASS
SEAPATH-00123	pacemaker can not acquire new privileges	PASS
SEAPATH-00124	pacemaker capabilities are bounded	PASS
SEAPATH-00133	pacemakerd system calls are filtered	PASS
SEAPATH-00134	pacemaker-based system calls are filtered	PASS
SEAPATH-00135	pacemaker-fenced system calls are filtered	PASS
SEAPATH-00136	pacemaker-execd system calls are filtered	PASS
SEAPATH-00137	pacemaker-atrtd system calls are filtered	PASS
SEAPATH-00138	pacemaker-schedulerd system calls are filtered	PASS
SEAPATH-00139	pacemaker-controld system calls are filtered	PASS
SEAPATH-00133	pacemakerd system calls are filtered	PASS
SEAPATH-00134	pacemaker-based system calls are filtered	PASS
SEAPATH-00135	pacemaker-fenced system calls are filtered	PASS
SEAPATH-00136	pacemaker-execd system calls are filtered	PASS
SEAPATH-00137	pacemaker-atrtd system calls are filtered	PASS
SEAPATH-00138	pacemaker-schedulerd system calls are filtered	PASS
SEAPATH-00139	pacemaker-controld system calls are filtered	PASS
SEAPATH-00133	pacemakerd system calls are filtered	PASS

Test ID	Tests	Results
SEAPATH-00134	pacemaker-based system calls are filtered	PASS
SEAPATH-00135	pacemaker-fenced system calls are filtered	PASS
SEAPATH-00136	pacemaker-execd system calls are filtered	PASS
SEAPATH-00137	pacemaker-attribd system calls are filtered	PASS
SEAPATH-00138	pacemaker-schedulerd system calls are filtered	PASS
SEAPATH-00139	pacemaker-controld system calls are filtered	PASS
SEAPATH-00133	pacemakerd system calls are filtered	PASS
SEAPATH-00134	pacemaker-based system calls are filtered	PASS
SEAPATH-00135	pacemaker-fenced system calls are filtered	PASS
SEAPATH-00136	pacemaker-execd system calls are filtered	PASS
SEAPATH-00137	pacemaker-attribd system calls are filtered	PASS
SEAPATH-00138	pacemaker-schedulerd system calls are filtered	PASS
SEAPATH-00139	pacemaker-controld system calls are filtered	PASS
SEAPATH-00133	pacemakerd system calls are filtered	PASS
SEAPATH-00134	pacemaker-based system calls are filtered	PASS
SEAPATH-00135	pacemaker-fenced system calls are filtered	PASS
SEAPATH-00136	pacemaker-execd system calls are filtered	PASS
SEAPATH-00137	pacemaker-attribd system calls are filtered	PASS
SEAPATH-00138	pacemaker-schedulerd system calls are filtered	PASS
SEAPATH-00139	pacemaker-controld system calls are filtered	PASS
SEAPATH-00133	pacemakerd system calls are filtered	PASS
SEAPATH-00134	pacemaker-based system calls are filtered	PASS
SEAPATH-00135	pacemaker-fenced system calls are filtered	PASS
SEAPATH-00136	pacemaker-execd system calls are filtered	PASS
SEAPATH-00137	pacemaker-attribd system calls are filtered	PASS
SEAPATH-00138	pacemaker-schedulerd system calls are filtered	PASS
SEAPATH-00139	pacemaker-controld system calls are filtered	PASS
SEAPATH-00133	pacemakerd system calls are filtered	PASS
SEAPATH-00134	pacemaker-based system calls are filtered	PASS
SEAPATH-00135	pacemaker-fenced system calls are filtered	PASS
SEAPATH-00136	pacemaker-execd system calls are filtered	PASS
SEAPATH-00137	pacemaker-attribd system calls are filtered	PASS
SEAPATH-00138	pacemaker-schedulerd system calls are filtered	PASS

- number of tests: 58
- number of failures: 0



# Notes

# About this documentation

This documentation uses the AsciiDoc documentation generator. It is a convenient format that allows using plain-text formatted writing that can later be converted to various output formats such as HTML and PDF.

In order to generate an HTML version of this documentation, use the following command (the asciidoc package will need to be installed in your Linux distribution):

```
$ asciidoc main.adoc
```

This will result in a README.html file being generated in the current directory.

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```
$ asciidoctor-pdf main.adoc
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