



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 (adminsyz) | 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/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/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-snmpp all commands require authentication | PASS |
| SEAPATH-00152 | /etc/sudoers.d/Debian-snmpp EXEC option is not used | PASS |
| SEAPATH-00153 | /etc/sudoers.d/Debian-snmpp rules are not defined by negation | PASS |
| SEAPATH-00154 | /etc/sudoers.d/Debian-snmpp commands are not specified without arguments | PASS |
| SEAPATH-00155 | /etc/sudoers.d/Debian-snmpp no command is specified with wildcard argument | PASS |
| SEAPATH-00156 | /etc/sudoers.d/Debian-snmpp /etc/sudoers.d/Debian-snmpp is owned by root:root with 0440 permissions | PASS |
| SEAPATH-00150 | /etc/sudoers.d/admin all commands require authentication | PASS |
| 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-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 |

| Test ID | Tests | Results |
|---------------|---|---------|
| 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-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-controlld 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-controlld 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-controlld 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-controlld 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):

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$ asciidoc main.adoc
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