

# **TEST REPORT**

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# **Test reports**

#### Tests common for ci3deb12

| Test ID       | Tests  | Results |
|---------------|--|---------|
| SEAPATH-00078 | no paging error                                | PASS    |
| SEAPATH-00079 | no rcu stall                                   | PASS    |
| SEAPATH-00080 | no backtraces                                  | PASS    |
| SEAPATH-00075 | kernel is PREEMPT RT                           | PASS    |
| SEAPATH-00076 | kernel is realtime                             | PASS    |
| SEAPATH-00081 | kernel is >= 4.19.106                          | PASS    |
| SEAPATH-00083 | syslog-ng service is running                   | PASS    |
| SEAPATH-00084 | syslog-ng is configured to send log on network | PASS    |

• number of tests: 8

• number of failures: 0

### Tests common security for ci3deb12

| Test ID       | Tests   | Results |
|---------------|---|---------|
| SEAPATH-00197 | Only wanted apt repositories configured: only use sources.list  | PASS    |
| SEAPATH-00197 | Only wanted apt repositories configured: do not add other repositories  | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: http://ftp.fr.debian.org/debian bookworm main contrib non-free non-free-firmware                     | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: http://security.debian.org/debian-security bookworm-security main contrib non-free non-free-firmware | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: http://ftp.fr.debian.org/debian bookworm-backports main contrib non-free                             | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: https://artifacts.elastic.co/packages/8.x/apt stable main  | PASS    |
| SEAPATH-00198 | No unrecognized packages installed  | PASS    |
| SEAPATH-00215 | auditd service is active  | PASS    |
| SEAPATH-00216 | auditd is configured to output in syslog  | PASS    |
| SEAPATH-00217 | insmod call is logged   | PASS    |
| SEAPATH-00217 | kmod call is logged   | PASS    |
| SEAPATH-00217 | modprobe call is logged   | PASS    |
| SEAPATH-00217 | rmmod call is logged  | PASS    |
| SEAPATH-00218 | modification in /etc/ is logged   | PASS    |
| SEAPATH-00219 | mount/umount call is logged   | PASS    |
| SEAPATH-00220 | ioperm call is logged   | PASS    |
| SEAPATH-00220 | prctl call is logged  | PASS    |
| SEAPATH-00220 | ptrace call is logged   | PASS    |

| Test ID       | Tests   | Results |
|---------------|---|---------|
| SEAPATH-00221 | file deletion is logged   | PASS    |
| SEAPATH-00222 | open monitoring is logged   | PASS    |
| SEAPATH-00222 | openat monitoring is logged   | PASS    |
| SEAPATH-00222 | unlink monitoring is logged   | PASS    |
| 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-00192 | All files have a known owner and group                                | PASS    |
| SEAPATH-00193 | All directories writable by all users have the sticky bit             | PASS    |
| SEAPATH-00194 | All directories writable by all users are owned by root               | PASS    |
| SEAPATH-00195 | Ceph OSD are owned by ceph  | PASS    |
| SEAPATH-00196 | No unexpected file has setuid/setgid enabled                          | PASS    |
| 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 cryto 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-00202 | grub root superuser is set in /boot/grub/grub.cfg                     | PASS    |
| SEAPATH-00203 | grub root superuser is password protected                             | PASS    |
| SEAPATH-00204 | main menuentry is unrestricted in /boot/grub/grub.cfg                 | PASS    |
| SEAPATH-00205 | TMPDIR env var is defined and readonly                                | PASS    |
| SEAPATH-00206 | TMPDIR is set with 700 mode and root as owner and group               | PASS    |
| SEAPATH-00225 | Umask is set correctly set  | PASS    |
| SEAPATH-00050 | Linux kernel hardening : SECURITY_YAMA is enabled                     | PASS    |
| SEAPATH-00050 | Linux kernel hardening : DEBUG_WX is enabled                          | PASS    |
| SEAPATH-00050 | Linux kernel hardening: SECURITY_DMESG_RESTRICT is enabled            | PASS    |
| SEAPATH-00050 | Linux kernel hardening : PAGE_TABLE_ISOLATION is enabled              | PASS    |
| SEAPATH-00050 | Linux kernel hardening : RETPOLINE is enabled                         | PASS    |
| SEAPATH-00050 | Linux kernel hardening : LEGACY_VSYSCALL_NONE is enabled              | PASS    |
| SEAPATH-00050 | Linux kernel hardening : SLAB_FREELIST_RANDOM is enabled              | PASS    |

| Test ID       | Tests   | Results |
|---------------|---|---------|
| SEAPATH-00050 | Linux kernel hardening : SLAB_FREELIST_HARDENED is enabled      | PASS    |
| SEAPATH-00050 | Linux kernel hardening : HARDENED_USERCOPY is enabled           | PASS    |
| SEAPATH-00050 | Linux kernel hardening : FORTIFY_SOURCE is enabled              | PASS    |
| SEAPATH-00050 | Linux kernel hardening : 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-00201 | LSM Yama is enabled   | PASS    |
| SEAPATH-00210 | MCE is disabled   | PASS    |
| SEAPATH-00211 | rng_core.default_quality is set to 500                          | PASS    |
| SEAPATH-00226 | Test AppArmor is enabled  | PASS    |
| SEAPATH-00223 | All sockets are bound to an interface                           | PASS    |
| SEAPATH-00224 | IPv6 is disabled  | PASS    |
| SEAPATH-00164 | sudo requires password for group operator (operator)            | PASS    |
| SEAPATH-00165 | sudo requires password for group maintenance-N1 (maint-n1)      | PASS    |
| 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 (adminsys) | 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 | sudoers files include directive noexec                          | PASS    |
| SEAPATH-00148 | sudoers files include directive requiretty                      | PASS    |
| SEAPATH-00148 | sudoers files include directive use_pty                         | PASS    |
| SEAPATH-00148 | sudoers files include directive umask=0027                      | PASS    |
| SEAPATH-00148 | sudoers files include directive ignore_dot                      | PASS    |
| SEAPATH-00148 | sudoers files include directive env_reset                       | PASS    |
| SEAPATH-00149 | sudo commands don't target privileged user                      | PASS    |
| SEAPATH-00150 | all commands require authentication                             | PASS    |
| SEAPATH-00152 | EXEC option is not used   | PASS    |
| SEAPATH-00153 | rules are not defined by negation                               | PASS    |
| SEAPATH-00154 | sudo commands always specify arguments                          | PASS    |
| SEAPATH-00155 | sudo commands don't use wildcard * argument                     | PASS    |
| SEAPATH-00156 | /etc/sudoers  | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/00-security                                      | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/admin  | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/ceph-smartctl                                    | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/Debian-snmp                                      | PASS    |
| SEAPATH-00171 | Check coredumps are disabled                                    | PASS    |
| SEAPATH-00172 | Check kexec is disabled   | PASS    |

| Test ID       | Tests  | Results |
|---------------|--|---------|
| SEAPATH-00173 | Check binfmt_misc is disabled                | PASS    |
| SEAPATH-00176 | Check kptr_restrict is set to 2              | PASS    |
| SEAPATH-00177 | Check dmesg_restrict is set to 1             | PASS    |
| SEAPATH-00178 | Check pid_max is set to 4194304              | PASS    |
| SEAPATH-00179 | Check perf_cpu_time_max_percent is set to 1  | PASS    |
| SEAPATH-00180 | Check perf_event_max_sample_rate is set to 1 | PASS    |
| SEAPATH-00181 | Check perf_event_paranoid is set to 2        | PASS    |
| SEAPATH-00182 | Check randomize_va_space is set to 2         | PASS    |
| SEAPATH-00183 | Check sysrq is set to 0                      | PASS    |
| SEAPATH-00184 | Check unprivileged_bpf_disabled is set to 1  | PASS    |
| SEAPATH-00185 | Check panic_on_oops is set to 1              | PASS    |
| SEAPATH-00186 | Check kernel.yama.ptrace_scope is set to 2   | PASS    |
| SEAPATH-00187 | Check suid_dumpable is set to 0              | PASS    |
| SEAPATH-00188 | Check protected_fifos is set to 2            | PASS    |
| SEAPATH-00189 | Check protected_regular is set to 2          | PASS    |
| SEAPATH-00190 | Check protected_symlinks is set to 1         | PASS    |
| SEAPATH-00191 | Check protected_hardlinks is set to 1        | 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    |
| SEAPATH-00087 | syslog-ng system calls are filtered          | PASS    |
| SEAPATH-00199 | No systemd service failed                    | PASS    |
| SEAPATH-00200 | No unrecognized service enabled              | PASS    |

• number of failures: 0

## Tests hypervisor for ci3deb12

| Test ID       | Tests  | Results |
|---------------|--|---------|
| SEAPATH-00044 | Check /etc/syslog-ng/cert.d/clientcert.pem permissions | PASS    |
| SEAPATH-00045 | Check /etc/syslog-ng/cert.d/clientkey.pem permissions  | PASS    |
| SEAPATH-00035 | ovs-vswitchd service is running                        | PASS    |
| SEAPATH-00035 | ovsdb-server service is running                        | PASS    |
| SEAPATH-00038 | lspci 3.6.2+ is available                              | PASS    |
| SEAPATH-00018 | KVM device available                                   | PASS    |
| SEAPATH-00019 | Qemu for x86-64 available                              | PASS    |
| SEAPATH-00020 | Libvirtd service is running                            | PASS    |
| SEAPATH-00021 | IPv4 NAT is available                                  | PASS    |

• number of tests: 9

• number of failures: 0

### Tests hypervisor iommu for ci3deb12

| 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 iommu : INTEL_IOMMU is enabled         | PASS    |
| SEAPATH-00050 | Linux kernel iommu : AMD_IOMMU is enabled           | PASS    |
| SEAPATH-00050 | Linux kernel <i>iommu</i> : AMD_IOMMU_V2 is enabled | PASS    |
| SEAPATH-00050 | Linux kernel iommu : IOMMU_IOVA is enabled          | PASS    |
| SEAPATH-00050 | Linux kernel <i>iommu</i> : DMAR_TABLE is enabled   | PASS    |

• number of tests: 8

• number of failures: 0

#### Tests hypervisor security for ci3deb12

| 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-00207 | CPU has no known vulnerabilities                         | 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    |

• number of tests: 16

• number of failures: 0

#### Tests cluster for ci1deb12

| Test ID        | Tests                                      | Results |
|----------------|--|---------|
| SEAPATH-00051  | health is not error                        | PASS    |
| SEAPATH-00052  | 3 monitors are configured                  | PASS    |
| SEAPATH-00053  | 3 monitors are up                          | PASS    |
| SEAPATH-00054  | at least 2 osds are configured and up      | PASS    |
| SEAPATH-00055  | a manager is active                        | PASS    |
| SEAPATH-00119  | corosync service is running                | PASS    |
| SEAPATH-00122  | pacemaker service is running               | PASS    |
| SEAPATH-00063  | no OFFLINE node                            | PASS    |
| SEAPATH-00064  | 3 nodes are configured                     | PASS    |
| SEAPATH-00065  | list secrets                               | PASS    |
| SEAPATH-00066  | define VM from a valid configuration       | PASS    |
| SEAPATH-00067  | define VM from a valid configuration       | PASS    |
| SEAPATH-00068  | list VM                                    | PASS    |
| SEAPATH-00069  | export VM configuration                    | PASS    |
| SEAPATH-00070  | VM configuration has been export           | PASS    |
| SEAPATH-00071  | Test add VM                                | PASS    |
| SEAPATH-00072  | Test stop VM                               | PASS    |
| SEAPATH-00073  | Test start VM                              | PASS    |
| SEAPATH-00074  | Test remove VM                             | PASS    |
| SEAPATH-000306 | Test clone disk                            | PASS    |
| SEAPATH-000307 | Test groups                                | PASS    |
| SEAPATH-000308 | Test namespaces                            | PASS    |
| SEAPATH-000309 | Test metadata                              | PASS    |
| SEAPATH-00060  | Test snapshots                             | PASS    |
| SEAPATH-00061  | Test snapshots rollback                    | PASS    |
| SEAPATH-00062  | Test write rbd                             | PASS    |
| 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    |

| Test ID       | Tests  | Results |
|---------------|--|---------|
| SEAPATH-00136 | pacemaker-execd system calls are filtered      | PASS    |
| SEAPATH-00137 | pacemaker-attrd 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-attrd 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-attrd 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-attrd 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-attrd 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-attrd 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-attrd system calls are filtered      | PASS    |
| SEAPATH-00138 | pacemaker-schedulerd system calls are filtered | PASS    |
| SEAPATH-00139 | pacemaker-controld system calls are filtered   | PASS    |

• number of failures: 0

#### Tests common for ci2deb12

| Test ID       | Tests  | Results |
|---------------|--|---------|
| SEAPATH-00078 | no paging error                                | PASS    |
| SEAPATH-00079 | no rcu stall                                   | PASS    |
| SEAPATH-00080 | no backtraces                                  | PASS    |
| SEAPATH-00075 | kernel is PREEMPT RT                           | PASS    |
| SEAPATH-00076 | kernel is realtime                             | PASS    |
| SEAPATH-00081 | kernel is >= 4.19.106                          | PASS    |
| SEAPATH-00083 | syslog-ng service is running                   | PASS    |
| SEAPATH-00084 | syslog-ng is configured to send log on network | PASS    |

• number of tests: 8

• number of failures: 0

## Tests common security for ci2deb12

| Test ID       | Tests   | Results |
|---------------|---|---------|
| SEAPATH-00197 | Only wanted apt repositories configured: only use sources.list  | PASS    |
| SEAPATH-00197 | Only wanted apt repositories configured: do not add other repositories  | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: http://ftp.fr.debian.org/debian bookworm main contrib non-free non-free-firmware                     | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: http://security.debian.org/debian-security bookworm-security main contrib non-free non-free-firmware | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: http://ftp.fr.debian.org/debian bookworm-backports main contrib non-free                             | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: https://artifacts.elastic.co/packages/8.x/apt stable main  | PASS    |
| SEAPATH-00198 | No unrecognized packages installed  | PASS    |
| SEAPATH-00215 | auditd service is active  | PASS    |
| SEAPATH-00216 | auditd is configured to output in syslog  | PASS    |
| SEAPATH-00217 | insmod call is logged   | PASS    |

| Test ID       | Tests   | Results |
|---------------|---|---------|
| SEAPATH-00217 | kmod call is logged   | PASS    |
| SEAPATH-00217 | modprobe call is logged   | PASS    |
| SEAPATH-00217 | rmmod call is logged  | PASS    |
| SEAPATH-00218 | modification in /etc/ is logged                                       | PASS    |
| SEAPATH-00219 | mount/umount call is logged   | PASS    |
| SEAPATH-00220 | ioperm call is logged   | PASS    |
| SEAPATH-00220 | prctl call is logged  | PASS    |
| SEAPATH-00220 | ptrace call is logged   | PASS    |
| SEAPATH-00221 | file deletion is logged   | PASS    |
| SEAPATH-00222 | open monitoring is logged   | PASS    |
| SEAPATH-00222 | openat monitoring is logged   | PASS    |
| SEAPATH-00222 | unlink monitoring is logged   | PASS    |
| 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-00192 | All files have a known owner and group                                | PASS    |
| SEAPATH-00193 | All directories writable by all users have the sticky bit             | PASS    |
| SEAPATH-00194 | All directories writable by all users are owned by root               | PASS    |
| SEAPATH-00195 | Ceph OSD are owned by ceph  | PASS    |
| SEAPATH-00196 | No unexpected file has setuid/setgid enabled                          | PASS    |
| 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 cryto 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-00202 | grub root superuser is set in /boot/grub/grub.cfg                     | PASS    |
| SEAPATH-00203 | grub root superuser is password protected                             | PASS    |
| SEAPATH-00204 | main menuentry is unrestricted in /boot/grub/grub.cfg                 | PASS    |
| SEAPATH-00205 | TMPDIR env var is defined and readonly                                | PASS    |
| SEAPATH-00206 | TMPDIR is set with 700 mode and root as owner and group               | PASS    |

| Test ID       | Tests   | Results |
|---------------|---|---------|
| SEAPATH-00225 | Umask is set correctly set                                      | PASS    |
| SEAPATH-00050 | Linux kernel hardening : SECURITY_YAMA is enabled               | PASS    |
| SEAPATH-00050 | Linux kernel hardening : DEBUG_WX is enabled                    | PASS    |
| SEAPATH-00050 | Linux kernel hardening : SECURITY_DMESG_RESTRICT is enabled     | PASS    |
| SEAPATH-00050 | Linux kernel hardening : PAGE_TABLE_ISOLATION is enabled        | PASS    |
| SEAPATH-00050 | Linux kernel hardening : RETPOLINE is enabled                   | PASS    |
| SEAPATH-00050 | Linux kernel hardening : LEGACY_VSYSCALL_NONE is enabled        | PASS    |
| SEAPATH-00050 | Linux kernel hardening : SLAB_FREELIST_RANDOM is enabled        | PASS    |
| SEAPATH-00050 | Linux kernel hardening : SLAB_FREELIST_HARDENED is enabled      | PASS    |
| SEAPATH-00050 | Linux kernel hardening : HARDENED_USERCOPY is enabled           | PASS    |
| SEAPATH-00050 | Linux kernel hardening : FORTIFY_SOURCE is enabled              | PASS    |
| SEAPATH-00050 | Linux kernel hardening : 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-00201 | LSM Yama is enabled   | PASS    |
| SEAPATH-00210 | MCE is disabled   | PASS    |
| SEAPATH-00211 | rng_core.default_quality is set to 500                          | PASS    |
| SEAPATH-00226 | Test AppArmor is enabled  | PASS    |
| SEAPATH-00223 | All sockets are bound to an interface                           | PASS    |
| SEAPATH-00224 | IPv6 is disabled  | PASS    |
| SEAPATH-00164 | sudo requires password for group operator (operator)            | PASS    |
| SEAPATH-00165 | sudo requires password for group maintenance-N1 (maint-n1)      | PASS    |
| 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 (adminsys) | 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 | sudoers files include directive noexec                          | PASS    |
| SEAPATH-00148 | sudoers files include directive requiretty                      | PASS    |
| SEAPATH-00148 | sudoers files include directive use_pty                         | PASS    |
| SEAPATH-00148 | sudoers files include directive umask=0027                      | PASS    |
| SEAPATH-00148 | sudoers files include directive ignore_dot                      | PASS    |
| SEAPATH-00148 | sudoers files include directive env_reset                       | PASS    |
| SEAPATH-00149 | sudo commands don't target privileged user                      | PASS    |
| SEAPATH-00150 | all commands require authentication                             | PASS    |
| SEAPATH-00152 | EXEC option is not used   | PASS    |
| SEAPATH-00153 | rules are not defined by negation                               | PASS    |
| SEAPATH-00154 | sudo commands always specify arguments                          | PASS    |

| Test ID       | Tests  | Results |
|---------------|--|---------|
| SEAPATH-00155 | sudo commands don't use wildcard * argument  | PASS    |
| SEAPATH-00156 | /etc/sudoers                                 | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/00-security                   | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/admin                         | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/Debian-snmp                   | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/ceph-smartctl                 | PASS    |
| SEAPATH-00171 | Check coredumps are disabled                 | PASS    |
| SEAPATH-00172 | Check kexec is disabled                      | PASS    |
| SEAPATH-00173 | Check binfmt_misc is disabled                | PASS    |
| SEAPATH-00176 | Check kptr_restrict is set to 2              | PASS    |
| SEAPATH-00177 | Check dmesg_restrict is set to 1             | PASS    |
| SEAPATH-00178 | Check pid_max is set to 4194304              | PASS    |
| SEAPATH-00179 | Check perf_cpu_time_max_percent is set to 1  | PASS    |
| SEAPATH-00180 | Check perf_event_max_sample_rate is set to 1 | PASS    |
| SEAPATH-00181 | Check perf_event_paranoid is set to 2        | PASS    |
| SEAPATH-00182 | Check randomize_va_space is set to 2         | PASS    |
| SEAPATH-00183 | Check sysrq is set to 0                      | PASS    |
| SEAPATH-00184 | Check unprivileged_bpf_disabled is set to 1  | PASS    |
| SEAPATH-00185 | Check panic_on_oops is set to 1              | PASS    |
| SEAPATH-00186 | Check kernel.yama.ptrace_scope is set to 2   | PASS    |
| SEAPATH-00187 | Check suid_dumpable is set to 0              | PASS    |
| SEAPATH-00188 | Check protected_fifos is set to 2            | PASS    |
| SEAPATH-00189 | Check protected_regular is set to 2          | PASS    |
| SEAPATH-00190 | Check protected_symlinks is set to 1         | PASS    |
| SEAPATH-00191 | Check protected_hardlinks is set to 1        | 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    |
| SEAPATH-00087 | syslog-ng system calls are filtered          | PASS    |
| SEAPATH-00199 | No systemd service failed                    | PASS    |
| SEAPATH-00200 | No unrecognized service enabled              | PASS    |

• number of failures: 0

## Tests hypervisor for ci2deb12

| Test ID       | Tests  | Results |
|---------------|--|---------|
| SEAPATH-00044 | Check /etc/syslog-ng/cert.d/clientcert.pem permissions | PASS    |
| SEAPATH-00045 | Check /etc/syslog-ng/cert.d/clientkey.pem permissions  | PASS    |
| SEAPATH-00035 | ovs-vswitchd service is running                        | PASS    |

| Test ID       | Tests                           | Results |
|---------------|---------------------------------|---------|
| SEAPATH-00035 | ovsdb-server service is running | PASS    |
| SEAPATH-00038 | lspci 3.6.2+ is available       | PASS    |
| SEAPATH-00018 | KVM device available            | PASS    |
| SEAPATH-00019 | Qemu for x86-64 available       | PASS    |
| SEAPATH-00020 | Libvirtd service is running     | PASS    |
| SEAPATH-00021 | IPv4 NAT is available           | PASS    |

• number of failures: 0

### Tests hypervisor iommu for ci2deb12

| 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 iommu : INTEL_IOMMU is enabled         | PASS    |
| SEAPATH-00050 | Linux kernel iommu : 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    |
| SEAPATH-00050 | Linux kernel <i>iommu</i> : DMAR_TABLE is enabled   | PASS    |

• number of tests: 8

• number of failures: 0

#### Tests hypervisor security for ci2deb12

| 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-00207 | CPU has no known vulnerabilities                         | 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    |

| Test ID       | Tests                                    | Results |
|---------------|--|---------|
| 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    |

• number of failures: 0

#### Tests common for ci1deb12

| Test ID       | Tests  | Results |
|---------------|--|---------|
| SEAPATH-00078 | no paging error                                | PASS    |
| SEAPATH-00079 | no rcu stall                                   | PASS    |
| SEAPATH-00080 | no backtraces                                  | PASS    |
| SEAPATH-00075 | kernel is PREEMPT RT                           | PASS    |
| SEAPATH-00076 | kernel is realtime                             | PASS    |
| SEAPATH-00081 | kernel is >= 4.19.106                          | PASS    |
| SEAPATH-00083 | syslog-ng service is running                   | PASS    |
| SEAPATH-00084 | syslog-ng is configured to send log on network | PASS    |

• number of tests: 8

• number of failures: 0

#### Tests common security for ci1deb12

| Test ID       | Tests   | Results |
|---------------|---|---------|
| SEAPATH-00197 | Only wanted apt repositories configured: only use sources.list  | PASS    |
| SEAPATH-00197 | Only wanted apt repositories configured: do not add other repositories  | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: http://ftp.fr.debian.org/debian bookworm main contrib non-free non-free-firmware                     | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: http://security.debian.org/debian-security bookworm-security main contrib non-free non-free-firmware | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: http://ftp.fr.debian.org/debian bookworm-backports main contrib non-free                             | PASS    |
| SEAPATH-00197 | Only official apt repositories configured: https://artifacts.elastic.co/packages/8.x/apt stable main  | PASS    |
| SEAPATH-00198 | No unrecognized packages installed  | PASS    |
| SEAPATH-00215 | auditd service is active  | PASS    |
| SEAPATH-00216 | auditd is configured to output in syslog  | PASS    |
| SEAPATH-00217 | insmod call is logged   | PASS    |
| SEAPATH-00217 | kmod call is logged   | PASS    |
| SEAPATH-00217 | modprobe call is logged   | PASS    |
| SEAPATH-00217 | rmmod call is logged  | PASS    |

| Test ID       | Tests   | Results |
|---------------|---|---------|
| SEAPATH-00218 | modification in /etc/ is logged                                       | PASS    |
| SEAPATH-00219 | mount/umount call is logged   | PASS    |
| SEAPATH-00220 | ioperm call is logged   | PASS    |
| SEAPATH-00220 | prctl call is logged  | PASS    |
| SEAPATH-00220 | ptrace call is logged   | PASS    |
| SEAPATH-00221 | file deletion is logged   | PASS    |
| SEAPATH-00222 | open monitoring is logged   | PASS    |
| SEAPATH-00222 | openat monitoring is logged   | PASS    |
| SEAPATH-00222 | unlink monitoring is logged   | PASS    |
| 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-00192 | All files have a known owner and group                                | PASS    |
| SEAPATH-00193 | All directories writable by all users have the sticky bit             | PASS    |
| SEAPATH-00194 | All directories writable by all users are owned by root               | PASS    |
| SEAPATH-00195 | Ceph OSD are owned by ceph  | PASS    |
| SEAPATH-00196 | No unexpected file has setuid/setgid enabled                          | PASS    |
| 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 cryto 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-00202 | grub root superuser is set in /boot/grub/grub.cfg                     | PASS    |
| SEAPATH-00203 | grub root superuser is password protected                             | PASS    |
| SEAPATH-00204 | main menuentry is unrestricted in /boot/grub/grub.cfg                 | PASS    |
| SEAPATH-00205 | TMPDIR env var is defined and readonly                                | PASS    |
| SEAPATH-00206 | TMPDIR is set with 700 mode and root as owner and group               | PASS    |
| SEAPATH-00225 | Umask is set correctly set  | PASS    |
| SEAPATH-00050 | Linux kernel hardening: SECURITY_YAMA is enabled                      | PASS    |
| SEAPATH-00050 | Linux kernel hardening : DEBUG_WX is enabled                          | PASS    |

| Test ID       | Tests   | Results |
|---------------|---|---------|
| SEAPATH-00050 | Linux kernel hardening: SECURITY_DMESG_RESTRICT is enabled      | PASS    |
| SEAPATH-00050 | Linux kernel hardening: PAGE_TABLE_ISOLATION is enabled         | PASS    |
| SEAPATH-00050 | Linux kernel hardening : RETPOLINE is enabled                   | PASS    |
| SEAPATH-00050 | Linux kernel hardening : LEGACY_VSYSCALL_NONE is enabled        | PASS    |
| SEAPATH-00050 | Linux kernel hardening: SLAB_FREELIST_RANDOM is enabled         | PASS    |
| SEAPATH-00050 | Linux kernel hardening: SLAB_FREELIST_HARDENED is enabled       | PASS    |
| SEAPATH-00050 | Linux kernel hardening: HARDENED_USERCOPY is enabled            | PASS    |
| SEAPATH-00050 | Linux kernel hardening: FORTIFY_SOURCE is enabled               | PASS    |
| SEAPATH-00050 | Linux kernel hardening : 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-00201 | LSM Yama is enabled   | PASS    |
| SEAPATH-00210 | MCE is disabled   | PASS    |
| SEAPATH-00211 | rng_core.default_quality is set to 500                          | PASS    |
| SEAPATH-00226 | Test AppArmor is enabled  | PASS    |
| SEAPATH-00223 | All sockets are bound to an interface                           | PASS    |
| SEAPATH-00224 | IPv6 is disabled  | PASS    |
| SEAPATH-00164 | sudo requires password for group operator (operator)            | PASS    |
| SEAPATH-00165 | sudo requires password for group maintenance-N1 (maint-n1)      | PASS    |
| 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 (adminsys) | 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 | sudoers files include directive noexec                          | PASS    |
| SEAPATH-00148 | sudoers files include directive requiretty                      | PASS    |
| SEAPATH-00148 | sudoers files include directive use_pty                         | PASS    |
| SEAPATH-00148 | sudoers files include directive umask=0027                      | PASS    |
| SEAPATH-00148 | sudoers files include directive ignore_dot                      | PASS    |
| SEAPATH-00148 | sudoers files include directive env_reset                       | PASS    |
| SEAPATH-00149 | sudo commands don't target privileged user                      | PASS    |
| SEAPATH-00150 | all commands require authentication                             | PASS    |
| SEAPATH-00152 | EXEC option is not used   | PASS    |
| SEAPATH-00153 | rules are not defined by negation                               | PASS    |
| SEAPATH-00154 | sudo commands always specify arguments                          | PASS    |
| SEAPATH-00155 | sudo commands don't use wildcard * argument                     | PASS    |
| SEAPATH-00156 | /etc/sudoers  | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/00-security                                      | PASS    |

| Test ID       | Tests  | Results |
|---------------|--|---------|
| SEAPATH-00156 | /etc/sudoers.d/ceph-smartctl                 | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/admin                         | PASS    |
| SEAPATH-00156 | /etc/sudoers.d/Debian-snmp                   | PASS    |
| SEAPATH-00171 | Check coredumps are disabled                 | PASS    |
| SEAPATH-00172 | Check kexec is disabled                      | PASS    |
| SEAPATH-00173 | Check binfmt_misc is disabled                | PASS    |
| SEAPATH-00176 | Check kptr_restrict is set to 2              | PASS    |
| SEAPATH-00177 | Check dmesg_restrict is set to 1             | PASS    |
| SEAPATH-00178 | Check pid_max is set to 4194304              | PASS    |
| SEAPATH-00179 | Check perf_cpu_time_max_percent is set to 1  | PASS    |
| SEAPATH-00180 | Check perf_event_max_sample_rate is set to 1 | PASS    |
| SEAPATH-00181 | Check perf_event_paranoid is set to 2        | PASS    |
| SEAPATH-00182 | Check randomize_va_space is set to 2         | PASS    |
| SEAPATH-00183 | Check sysrq is set to 0                      | PASS    |
| SEAPATH-00184 | Check unprivileged_bpf_disabled is set to 1  | PASS    |
| SEAPATH-00185 | Check panic_on_oops is set to 1              | PASS    |
| SEAPATH-00186 | Check kernel.yama.ptrace_scope is set to 2   | PASS    |
| SEAPATH-00187 | Check suid_dumpable is set to 0              | PASS    |
| SEAPATH-00188 | Check protected_fifos is set to 2            | PASS    |
| SEAPATH-00189 | Check protected_regular is set to 2          | PASS    |
| SEAPATH-00190 | Check protected_symlinks is set to 1         | PASS    |
| SEAPATH-00191 | Check protected_hardlinks is set to 1        | 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    |
| SEAPATH-00087 | syslog-ng system calls are filtered          | PASS    |
| SEAPATH-00199 | No systemd service failed                    | FAIL    |
| SEAPATH-00200 | No unrecognized service enabled              | PASS    |

• number of failures: 1

## Tests hypervisor for ci1deb12

| Test ID       | Tests  | Results |
|---------------|--|---------|
| SEAPATH-00044 | Check /etc/syslog-ng/cert.d/clientcert.pem permissions | PASS    |
| SEAPATH-00045 | Check /etc/syslog-ng/cert.d/clientkey.pem permissions  | PASS    |
| SEAPATH-00035 | ovs-vswitchd service is running                        | PASS    |
| SEAPATH-00035 | ovsdb-server service is running                        | PASS    |
| SEAPATH-00038 | lspci 3.6.2+ is available                              | PASS    |
| SEAPATH-00018 | KVM device available                                   | PASS    |

| Test ID       | Tests                       | Results |
|---------------|-----------------------------|---------|
| SEAPATH-00019 | Qemu for x86-64 available   | PASS    |
| SEAPATH-00020 | Libvirtd service is running | PASS    |
| SEAPATH-00021 | IPv4 NAT is available       | PASS    |

• number of failures: 0

### Tests hypervisor iommu for ci1deb12

| 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 iommu : INTEL_IOMMU is enabled       | PASS    |
| SEAPATH-00050 | Linux kernel iommu : AMD_IOMMU is enabled         | PASS    |
| SEAPATH-00050 | Linux kernel iommu : AMD_IOMMU_V2 is enabled      | PASS    |
| SEAPATH-00050 | Linux kernel iommu : IOMMU_IOVA is enabled        | PASS    |
| SEAPATH-00050 | Linux kernel <i>iommu</i> : DMAR_TABLE is enabled | PASS    |

• number of tests: 8

• number of failures: 0

#### Tests hypervisor security for ci1deb12

| 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-00207 | CPU has no known vulnerabilities                         | 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    |

- number of tests: 16
- number of failures: 0

## **Compliance Matrix**

#### Matrix include/ANSSI-BP28-Recommandations-M.csv

| Requirement    | Test id       | Status |
|----------------|---------------|--------|
| ANSSI-BP28-R30 | SEAPATH-00048 | PASS   |
| ANSSI-BP28-R53 | SEAPATH-00192 | PASS   |
| ANSSI-BP28-R54 | SEAPATH-00193 | PASS   |
|                | SEAPATH-00194 | PASS   |
| ANSSI-BP28-R56 | SEAPATH-00196 | PASS   |
| ANSSI-BP28-R58 | SEAPATH-00198 | PASS   |
| ANSSI-BP28-R59 | SEAPATH-00197 | PASS   |
| ANSSI-BP28-R62 | SEAPATH-00200 | PASS   |
| ANSSI-BP28-R68 | SEAPATH-00088 | PASS   |
|                | SEAPATH-00089 | PASS   |
|                | SEAPATH-00091 | PASS   |
|                | SEAPATH-00095 | PASS   |
|                | SEAPATH-00098 | PASS   |
|                | SEAPATH-00203 | PASS   |
| ANSSI-BP28-R80 | SEAPATH-00223 | PASS   |

#### Matrix include/ANSSI-BP28-Recommandations-MI.csv

| Requirement    | Test id       | Status |
|----------------|---------------|--------|
| ANSSI-BP28-R11 | SEAPATH-00186 | PASS   |
|                | SEAPATH-00201 | PASS   |
| ANSSI-BP28-R12 | SEAPATH-00173 | PASS   |
| ANSSI-BP28-R13 | SEAPATH-00224 | PASS   |
| ANSSI-BP28-R14 | SEAPATH-00187 | PASS   |
|                | SEAPATH-00188 | PASS   |
|                | SEAPATH-00189 | PASS   |
|                | SEAPATH-00190 | PASS   |
|                | SEAPATH-00191 | PASS   |
| ANSSI-BP28-R32 | SEAPATH-00092 | PASS   |
| ANSSI-BP28-R34 | SEAPATH-00046 | PASS   |
| ANSSI-BP28-R39 | SEAPATH-00148 | PASS   |
| ANSSI-BP28-R40 | SEAPATH-00149 | PASS   |
| ANSSI-BP28-R42 | SEAPATH-00153 | PASS   |
| ANSSI-BP28-R43 | SEAPATH-00154 | PASS   |
|                | SEAPATH-00155 | PASS   |
| ANSSI-BP28-R5  | SEAPATH-00203 | PASS   |

| Requirement    | Test id       | Status |
|----------------|---------------|--------|
| ANSSI-BP28-R55 | SEAPATH-00205 | PASS   |
|                | SEAPATH-00206 | PASS   |
| ANSSI-BP28-R79 | SEAPATH-00085 | PASS   |
|                | SEAPATH-00086 | PASS   |
|                | SEAPATH-00087 | PASS   |
|                | SEAPATH-00120 | PASS   |
|                | SEAPATH-00121 | PASS   |
|                | SEAPATH-00123 | PASS   |
|                | SEAPATH-00124 | PASS   |
|                | SEAPATH-00128 | PASS   |
|                | SEAPATH-00129 | PASS   |
|                | SEAPATH-00130 | PASS   |
|                | SEAPATH-00131 | PASS   |
|                | SEAPATH-00132 | PASS   |
|                | SEAPATH-00133 | PASS   |
|                | SEAPATH-00134 | PASS   |
|                | SEAPATH-00135 | PASS   |
|                | SEAPATH-00136 | PASS   |
|                | SEAPATH-00137 | PASS   |
|                | SEAPATH-00138 | PASS   |
| ANSSI-BP28-R8  | SEAPATH-00207 | PASS   |
| ANSSI-BP28-R9  | SEAPATH-00176 | PASS   |
|                | SEAPATH-00177 | PASS   |
|                | SEAPATH-00178 | PASS   |
|                | SEAPATH-00179 | PASS   |
|                | SEAPATH-00180 | PASS   |
|                | SEAPATH-00181 | PASS   |
|                | SEAPATH-00182 | PASS   |
|                | SEAPATH-00183 | PASS   |
|                | SEAPATH-00184 | PASS   |
|                | SEAPATH-00185 | PASS   |

## Matrix include/ANSSI-BP28-Recommandations-MIR.csv

| Requirement    | Test id       | Status |
|----------------|---------------|--------|
| ANSSI-BP28-R36 | SEAPATH-00148 | PASS   |
|                | SEAPATH-00225 | PASS   |
| ANSSI-BP28-R37 | SEAPATH-00226 | PASS   |

| Requirement    | Test id       | Status |
|----------------|---------------|--------|
| ANSSI-BP28-R64 | SEAPATH-00085 | PASS   |
|                | SEAPATH-00086 | PASS   |
|                | SEAPATH-00120 | PASS   |
|                | SEAPATH-00121 | PASS   |
|                | SEAPATH-00123 | PASS   |
|                | SEAPATH-00124 | PASS   |
| ANSSI-BP28-R65 | SEAPATH-00087 | PASS   |
|                | SEAPATH-00128 | PASS   |
|                | SEAPATH-00129 | PASS   |
|                | SEAPATH-00130 | PASS   |
|                | SEAPATH-00131 | PASS   |
|                | SEAPATH-00132 | PASS   |
|                | SEAPATH-00133 | PASS   |
|                | SEAPATH-00134 | PASS   |
|                | SEAPATH-00135 | PASS   |
|                | SEAPATH-00136 | PASS   |
|                | SEAPATH-00137 | PASS   |
|                | SEAPATH-00138 | PASS   |
|                | SEAPATH-00139 | PASS   |
| ANSSI-BP28-R71 | SEAPATH-00044 | PASS   |
|                | SEAPATH-00045 | PASS   |
|                | SEAPATH-00083 | PASS   |
|                | SEAPATH-00084 | PASS   |
|                | SEAPATH-00108 | PASS   |
| ANSSI-BP28-R73 | SEAPATH-00215 | PASS   |
|                | SEAPATH-00216 | PASS   |

#### About this documentation

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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 test-report.adoc

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

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\$ asciidoctor-pdf test-report.adoc