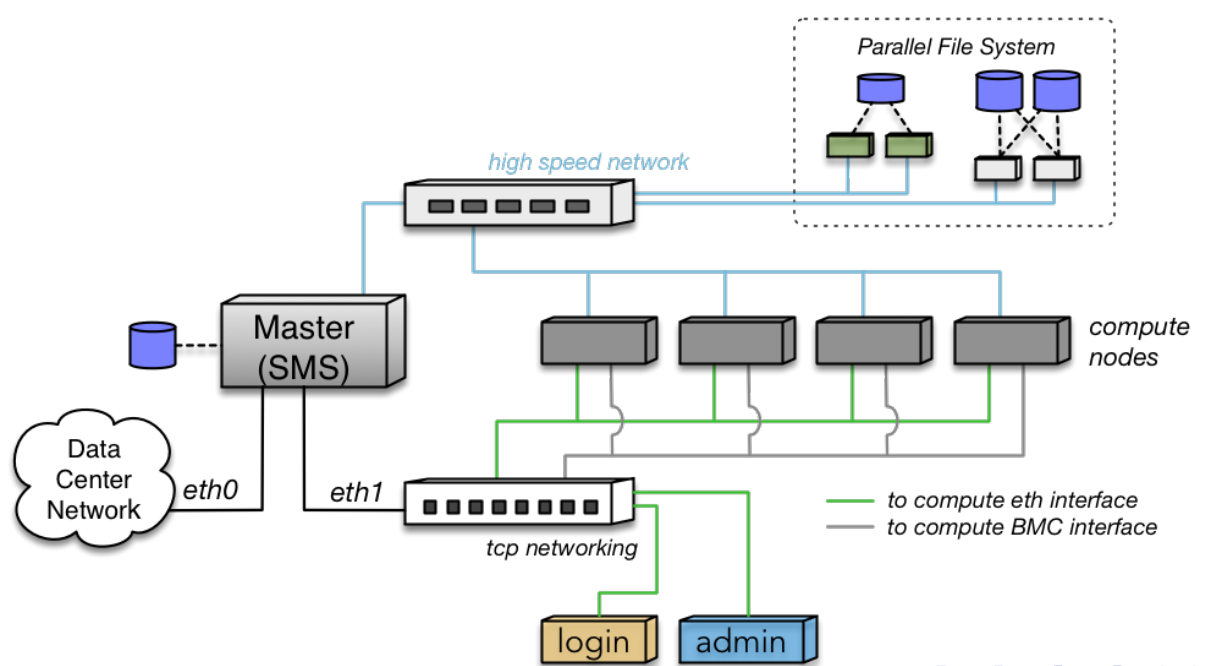


OpenHPC – Running on Multiple Distributions

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High Performance Computing (HPC)



OpenHPC provides RPM based software stack

OpenHPC provides
validated recipes

OpenHPC supports aarch64 and x86_64

OpenHPC supports

RHEL 9

Leap 15.5

openEuler 22.03

Buildsystem: OBS

One spec - multiple RPMS

```
1 <topadd>%define compiler_family !COMPILER!</topadd>
2 <topadd>%define mpi_family !MPI!</topadd>
```

OS provided RPMS are not replaced

```
# rpm -q hwloc-libs --provides
hwloc-libs = 2.4.1-5.el9
hwloc-libs(x86-64) = 2.4.1-5.el9
libhwloc.so.15()(64bit)
# rpm -q openmpi --provides
config(openmpi) = 2:4.1.1-7.el9
libmpi.so.40()(64bit)(openmpi-x86_64)
libmpi_cxx.so.40()(64bit)(openmpi-x86_64)
libmpi_java.so.40()(64bit)(openmpi-x86_64)
libmpi_mpifh.so.40()(64bit)(openmpi-x86_64)
libmpi_usempi_ignore_tkr.so.40()(64bit)(openmpi-x86_64)
libmpi_usempif08.so.40()(64bit)(openmpi-x86_64)
liboshmem.so.40()(64bit)(openmpi-x86_64)
mpi
openmpi = 2:4.1.1-7.el9
openmpi(x86-64) = 2:4.1.1-7.el9
```

```
# rpm -q hwloc-ohpc --provides
hwloc-ohpc = 2.11.1-320.ohpc.1.1
hwloc-ohpc(x86-64) = 2.11.1-320.ohpc.1.1
libhwloc.so.15()(64bit)(ohpc)
# rpm -q openmpi5-gnu14-ohpc --provides
libmpi.so.40()(64bit)(ohpc)
libmpi_mpifh.so.40()(64bit)(ohpc)
libmpi_usempi_ignore_tkr.so.40()(64bit)(ohpc)
libmpi_usempif08.so.40()(64bit)(ohpc)
libmpi_dbg_msgq.so.40()(64bit)(ohpc)
libopenpal.so.80()(64bit)(ohpc)
liboshmem.so.40()(64bit)(ohpc)
libpmix.so.2()(64bit)(ohpc)
libprte.so.3()(64bit)(ohpc)
openmpi5-gnu14-ohpc = 5.0.5-320.ohpc.2.1
openmpi5-gnu14-ohpc(x86-64) = 5.0.5-320.ohpc.2.1
```

Validated Recipes

Statistics

Thank You