

Лабораторная работа 1: Запуск OpenBMC с использованием QEMU

Цель работы: освоить базовые принципы работы с OpenBMC, развернуть его в эмуляторе QEMU, изучить процесс загрузки и основные функции системы.

Результат работы:

```
root@romulus:~# obmcutil state
CurrentBMCState      : xyz.openbmc_project.State.BMC.BMCState.Ready
CurrentPowerState    : xyz.openbmc_project.State.Chassis.PowerState.Off
CurrentHostState     : xyz.openbmc_project.State.Host.HostState.Off
BootProgress         : xyz.openbmc_project.State.Boot.Progress.ProgressStages.Unspecified
OperatingSystemState: xyz.openbmc_project.State.OperatingSystem.Status.OSStatus.Inactive
```

```
edmitriev@DESKTOP-68V55QV:~$ ipmitool -I lanplus -H 0.0.0.0 -p 2623 -U root -P openBmc fru print
FRU Device Description : BuiltIn FRU Device (ID 0)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : cpu0 (ID 1)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : cpu1 (ID 2)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : system (ID 3)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm0 (ID 4)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm1 (ID 5)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm2 (ID 6)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm3 (ID 7)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm4 (ID 8)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm5 (ID 9)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm6 (ID 10)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm7 (ID 11)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm8 (ID 12)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm9 (ID 13)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm10 (ID 14)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm11 (ID 15)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm12 (ID 16)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm13 (ID 17)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm14 (ID 18)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : dimm15 (ID 19)
Device not present (Requested sensor, data, or record not found)

FRU Device Description : fan0 (ID 50)

FRU Device Description : fan1 (ID 51)
```

```
root@romulus:~# journalctl -u xyz.openbmc_project.State.BMC.service
Feb 20 11:43:30 romulus systemd[1]: Starting Phosphor BMC State Manager...
Feb 20 11:43:31 romulus phosphor-bmc-state-manager[377]: Unit obmc-bmc-service-quiet@0.target not found: sd_bus_call: org.freedesktop.systemd1.NoSuchUnit: Unit obmc-bmc-service-quiet@0.target not loaded.
Feb 20 11:43:31 romulus phosphor-bmc-state-manager[377]: Setting the BMCState field to BMC_NOTREADY
Feb 20 11:43:31 romulus phosphor-bmc-state-manager[377]: Setting the BMCState field to xyz.openbmc_project.State.BMC.BMCState.NotReady
Feb 20 11:43:31 romulus phosphor-bmc-state-manager[377]: Setting the RebootCause field to xyz.openbmc_project.State.BMC.RebootCause.POR
Feb 20 11:43:31 romulus systemd[1]: Started Phosphor BMC State Manager.
Feb 20 11:43:40 romulus phosphor-bmc-state-manager[377]: BMC_READY
Feb 20 11:43:40 romulus phosphor-bmc-state-manager[377]: Setting the BMCState field to xyz.openbmc_project.State.BMC.BMCState.Ready
```