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VirtualBMC (vbmc)

: <https://x-vps.com/blog/?p=16>

VBMC	TripleO	IPMI
instack 가	TripleO Centos 7.2 Triplemetal Mitaka	pxe_ssh TripleO Newton
가 documentation		
VM (openstack undercloud install). “ ” 가	(overcloud-full, ironic-python-agent instackenv.json Ironic 가) 가	가 가
(VirtualBMC -libvirt	“ ” 가)	

VirtualBMC pip install git . yum pip

```
$ sudo yum install python-pip -y  
...  
$ sudo pip install virtualbmc
```

) 가 'libvirt-devel'

```
$ sudo yum install -y gcc python-devel libvirt-devel
```

iptables . **yum**

```
$ sudo yum install firewalld  
$ sudo systemctl enable firewalld  
$ sudo systemctl start firewalld
```

IP (192.168.122.1)가 instack VM

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```
. IPMI          623          . ipmitool
가           -p          .
VM          가          (          IP 192.168.122.1).          . IP가

vbmc          가          VM    vbmc
5          가          .
(baremetalbrbm_0..4)          .

baremetalbrbm_0   IPMI   623  가          . baremetalbrbm_1   624 baremetalbrbm_2
625 baremetalbrbm_3   626 baremetalbrbm_4   627
```

```
$ sudo firewall-cmd --permanent --zone=public --add-port=623-627/udp
$ sudo firewall-cmd --reload
```

가 (“ ”) vbmc 가

```
$ sudo vbmc list
+-----+-----+-----+-----+
| Domain name | Status | Address | Port |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
$ sudo vbmc add baremetalbrbm_0 --username root --password calvin --port 623
$ sudo vbmc add baremetalbrbm_1 --username root --password calvin --port 624
$ sudo vbmc add baremetalbrbm_2 --username root --password calvin --port 625
$ sudo vbmc add baremetalbrbm_3 --username root --password calvin --port 626
$ sudo vbmc add baremetalbrbm_4 --username root --password calvin --port 627
$ sudo vbmc list
+-----+-----+-----+-----+
| Domain name | Status | Address | Port |
+-----+-----+-----+-----+
| baremetalbrbm_0 | down | :: | 623 |
| baremetalbrbm_1 | down | :: | 624 |
| baremetalbrbm_2 | down | :: | 625 |
| baremetalbrbm_3 | down | :: | 626 |
| baremetalbrbm_4 | down | :: | 627 |
+-----+-----+-----+-----+
```

! 가

```
$ for i in {0..4};do sudo vbmc start baremetalbrbm_${i};done
2016-12-06 13:36:40,806.806 685 INFO VirtualBMC [-] Virtual BMC for domain
baremetalbrbm_0 started
2016-12-06 13:36:41,034.034 694 INFO VirtualBMC [-] Virtual BMC for domain
baremetalbrbm_1 started
```

```
2016-12-06 13:36:41,251.251 703 INFO VirtualBMC [-] Virtual BMC for domain
baremetalbrbm_2 started
2016-12-06 13:36:41,467.467 712 INFO VirtualBMC [-] Virtual BMC for domain
baremetalbrbm_3 started
2016-12-06 13:36:41,684.684 721 INFO VirtualBMC [-] Virtual BMC for domain
baremetalbrbm_4 started
```

:

```
$ sudo vbmc list
+-----+-----+-----+-----+
| Domain name | Status | Address | Port |
+-----+-----+-----+-----+
| baremetalbrbm_0 | running | :: | 623 |
| baremetalbrbm_1 | running | :: | 624 |
| baremetalbrbm_2 | running | :: | 625 |
| baremetalbrbm_3 | running | :: | 626 |
| baremetalbrbm_4 | running | :: | 627 |
+-----+-----+-----+-----+
```

```
$ sudo lsof -Pni:623-627
COMMAND PID USER FD TYPE DEVICE SIZE/OFF NODE NAME
vbmc 685 root 3u IPv6 4622045 0t0 UDP *:623
vbmc 694 root 3u IPv6 4622046 0t0 UDP *:624
vbmc 703 root 3u IPv6 4622047 0t0 UDP *:625
vbmc 712 root 3u IPv6 4625461 0t0 UDP *:626
vbmc 721 root 3u IPv6 4616064 0t0 UDP *:627
```

Instack VM

instack vm ipmitool

```
[stack@instack ~]$ ipmitool -I lanplus -U root -P calvin -H 192.168.122.1
power status      # defaults to 623
Chassis Power is off
[stack@instack ~]$ ipmitool -I lanplus -U root -P calvin -H 192.168.122.1
power status -p 627
Chassis Power is off
```

instack.json	("name": "bm [0-4]" 가)	UUID /
--------------	--------------------------	--------

```
{
  "nodes": [
    {
      "mac": [
        "00:3f:f7:9f:2e:eb"
```

```
],
  "name": "bm0",
  "cpu": "2",
  "memory": "8192",
  "disk": "42",
  "arch": "x86_64",
  "pm_user": "root",
  "pm_addr": "192.168.122.1",
  "pm_password": "calvin",
  "pm_type": "pxe_ipmitool"
},
{
  "mac": [
    "00:1e:c1:2c:e0:35"
  ],
  "name": "bm1",
  "cpu": "2",
  "memory": "8192",
  "disk": "42",
  "arch": "x86_64",
  "pm_user": "root",
  "pm_addr": "192.168.122.1",
  "pm_password": "calvin",
  "pm_type": "pxe_ipmitool"
},
{
  "mac": [
    "00:56:34:66:7a:fc"
  ],
  "name": "bm2",
  "cpu": "2",
  "memory": "8192",
  "disk": "42",
  "arch": "x86_64",
  "pm_user": "root",
  "pm_addr": "192.168.122.1",
  "pm_password": "calvin",
  "pm_type": "pxe_ipmitool"
},
{
  "mac": [
    "00:8a:c5:c7:22:46"
  ],
  "name": "bm3",
  "cpu": "2",
  "memory": "8192",
  "disk": "42",
  "arch": "x86_64",
  "pm_user": "root",
```

```

    "pm_addr": "192.168.122.1",
    "pm_password": "calvin",
    "pm_type": "pxe_ipmitool"
},
{
  "mac": [
    "00:a3:bd:79:54:b6"
  ],
  "name": "bm4",
  "cpu": "2",
  "memory": "8192",
  "disk": "42",
  "arch": "x86_64",
  "pm_user": "root",
  "pm_addr": "192.168.122.1",
  "pm_password": "calvin",
  "pm_type": "pxe_ipmitool"
}
]
}

```

instackenv.json (openstack baremetal import instackenv.json) 가

instackenv.json “pm_port” 가 Ironic 가

```
$ ironic node-update bm1 add driver_info/ipmi_port=624
$ ironic node-update bm2 add driver_info/ipmi_port=625
$ ironic node-update bm3 add driver_info/ipmi_port=626
$ ironic node-update bm4 add driver_info/ipmi_port=627
```

bm0 (IPMI 623). !

Ironic IP (192.168.122.1) VirtualBMC

가 “ ” IP

: pxe_ssh virtualbmc pxe_ipmi

<https://blueprints.launchpad.net/tripleo/+spec/switch-to-virtualbmc>

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