

VBMC	TripleO	IPMI	3
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VBMC TripleO IPMI

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

VirtualBMC pip install 가 . yum pip .
 git

```
$ 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
 . IPMI . 623 . ipmitool . IP가
 가 . -p .
 VM 가 (IP 192.168.122.1).
 vbmc 가 VM vbmc 가
 . 5 .
 (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

/

가)

```
{
  "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 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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