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VBMC TripleO IPMI 3
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: <https://x-vps.com/blog/?p=16>

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

RHEL/CentOS 7

```

yum -y update
yum -y install python3-pip python3-devel gcc libvirt-devel ipmitool
pip3 install --upgrade pip
pip3 install virtualbmc

#
vbmc
vbmc list

# vbmc /
vbmc add ik-metal0 --username admin --password secret@1337 --port 6230
vbmc start ik-metal0

# ipmi
ipmitool -I lanplus -U admin -P secret@1337 -H 10.80.80.1 -p 6230 power
status

```

```
$ 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
가 -p IP가
VM 가 (IP 192.168.122.1).
vbmc 가 VM vbmc 가
(baremetalbrbm_0..4) 5 가
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)
가 “ ” VirtualBMC IP
: pxe_ssh virtualbmc pxe_ipmi
:

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

From: <https://at1.kr/dokuwiki/> - AllThatLinux!

Permanent link: https://at1.kr/dokuwiki/doku.php/virtualbmc_vbmc_%EC%84%A4%EC%A0%95%ED%95%98%EA%B8%B0?rev=1612494006

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