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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

```
$ 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 . 가 -p ( IP 192.168.122.1).
VM 가 VM vbmc
vbmc 가 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

/

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

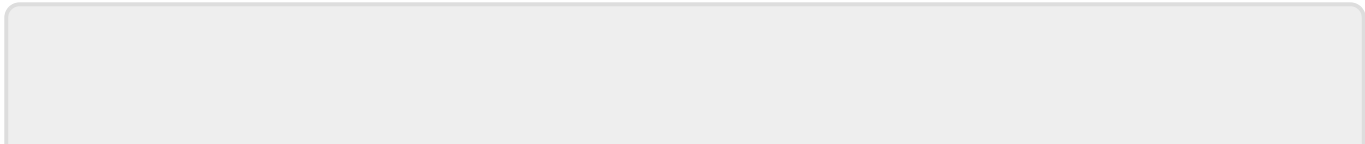
```

$ 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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