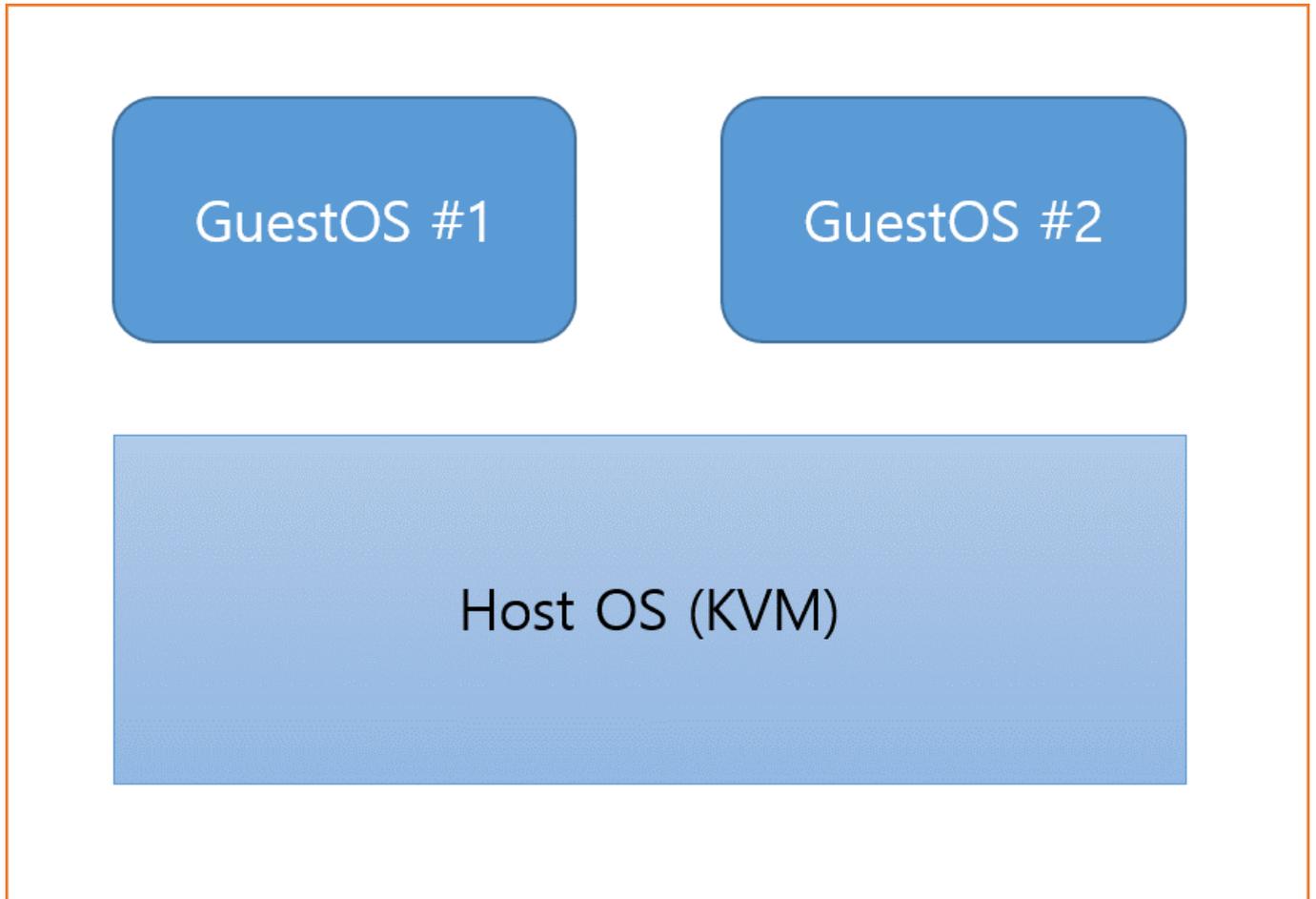


- KVM** **fence_virt** 3
- 3
- Fence** 3
- 3
- 4
- 4
- 4
- fence_virt 5
- Guest OS 5
- cluster.conf 6
- 7
- 7

KVM fence_virt

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GuestOS	HostOS	1	(가)	KVM	2	Guest OS
		fence_virt				

Fence

가 fence()

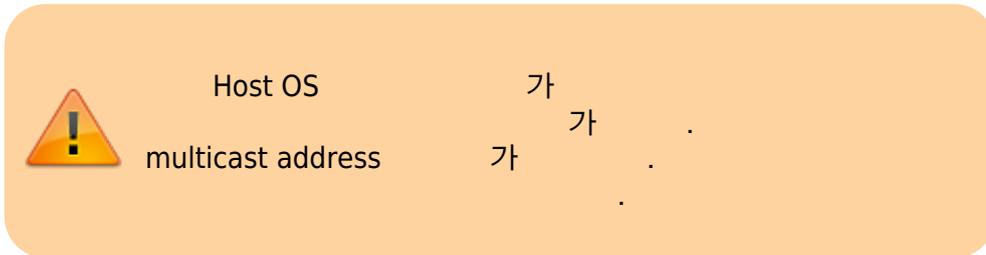
HostOS

```
# yum install fence-virt fence-virt
```

multicast fence-virtid-serial

가 /etc/cluster 가

```
# mkdir -p /etc/cluster
```



key HostOS Host OS

```
# dd if=/dev/urandom of=/etc/cluster/fence_xvm.key bs=4k count=1  
# scp /etc/cluster/fence_xvm.key root@guest:/etc/cluster/fence_xvm_host1.key
```

HostOS GuestOS

Host OS

```
# fence_virtid -c
```

-
-
-
-
-
- br0 ()
- default fence_xvm.key
- libvirt
- URI
- "y"

/etc/fence_virt.conf

```
fence_virttd {
    module_path = "/usr/lib64/fence-virt";
    listener = "multicast";
    backend = "libvirt";
}

listeners {
    #
    # Guest OS cluster.conf
    #
    # cluster.conf
    # Host OS가 Host OS address
    multicast {
        key_file = "/etc/cluster/fence_xvm.key";
        interface = "br0";
        port = "1229";
        address = "225.0.0.12";
        family = "ipv4";
    }
}

backends {
    libvirt {
        uri = "qemu:///system";
    }
}
```

Host OS multicast address Host OS

```
(on host1)
address = "225.0.1.12";
```

```
(on host2)
address = "225.0.2.12";
```

fence_virttd

```
# service fence_virttd start
# chkconfig fence_virttd on
```

Guest OS

```
# yum install fence-virt
```

Guest OS 가

```
[on guest1]$ fence_xvm -a 225.0.2.12 -k /etc/cluster/fence_xvm-host2.key -H guest2 -o status
[on guest2]$ fence_xvm -a 225.0.1.12 -k /etc/cluster/fence_xvm_host1.key -H guest1 -o status
```

```
[on guest2]# fence_xvm -o reboot -a 225.0.1.12 -k /etc/cluster/fence_xvm_host1.key -H guest1
```

-H Guest OS KVM 가

HostOS virsh list 가

```
[on host1]# virsh list
 Id Name                    State
-----
 1  guest1                    running
```

cluster.conf

domain vm 가

```
[root@rhcs1 ~]# fence_xvm -o list
rhcs61                    84cbf968-2ffc-437c-b9a6-3b3c9465239d on
rhcs62                    f9038eec-a6f8-4df7-aa69-533744cb28ba on
```

가 cluster.conf

```
[root@node2 ~]# cat /etc/cluster/cluster.conf
<?xml version="1.0"?>
<cluster config_version="1" name="kvm_cluster">
  <clusternodes>
    <clusternode name="node1.example.com" nodeid="1">
      <fence>
        <method name="1">
          <!-- domain                    VM                    . -->
          <device domain="rhcs61" name="virtfence1"/>
        </method>
      </fence>
    </clusternode>
  </clusternodes>
</cluster>
```

```
        </method>
    </fence>
</clusternode>
<clusternode name="node2.example.com" nodeid="2">
    <fence>
        <method name="1">
            <device domain="rhcs62" name="virtfence2"/>
        </method>
    </fence>
</clusternode>
</clusternodes>
<cman expected_votes="1" two_node="1"/>
<fencedevices>
    <!-- key_file      multicast_address
         /etc/cluster/fence_xvm.key    225.0.0.12 -->
    <fencedevice agent="fence_xvm" name="virtfence1"
key_file="/etc/cluster/fence_xvm_host1.key" multicast_address="225.0.1.12"/>
    <fencedevice agent="fence_xvm" name="virtfence2"
key_file="/etc/cluster/fence_xvm_host2.key" multicast_address="225.0.2.12"/>
</fencedevices>
<rm>
    <failoverdomains/>
    <resources/>
</rm>
</cluster>
```

```
[on guest2]$ fence_node guest1
fence guest1 success
```

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- <https://access.redhat.com/solutions/917833>

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