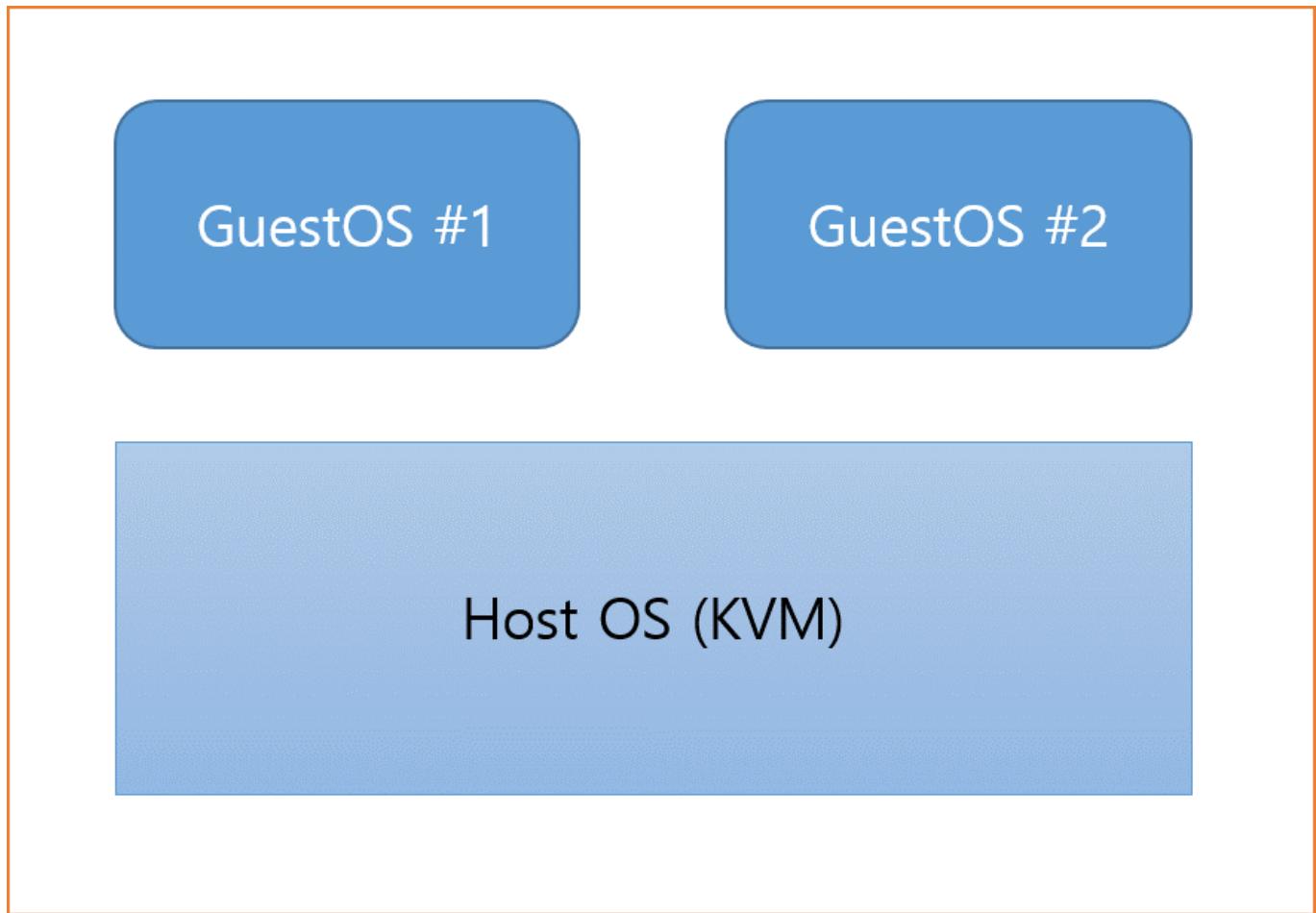


KVM	fence_virt	3
		3
Fence		3
		3
		4
		4
fence_virt		5
Guest OS		5
cluster.conf		6
		7
		7

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KVM fence_virtd

— 2018/01/04 15:44



```

graph LR
    GuestOS[GuestOS] --- HostOS[HostOS]
    HostOS --- fence[fence_virtd]
    fence --- kvm[KVM]
    kvm --- GuestOS[GKVM]
    GuestOS --- GuestOS2[Guest OS]

```

The diagram illustrates the architecture of a virtualized environment. It shows the following components and their relationships:

- GuestOS** and **HostOS** are connected.
- fence_virtd** is connected to **KVM**.
- KVM** is connected to **GKVM**.
- GKVM** is connected to **Guest OS**.

Fence

가 fence()

HostOS

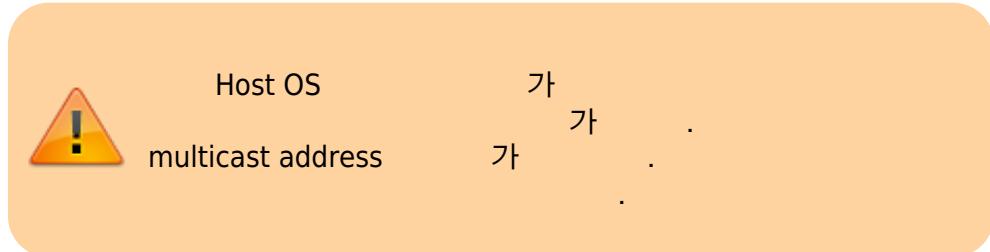
```
# yum install fence-virt fence-virtd fence-virtd-libvirt fence-virtd-
```

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multicast fence-virtd-serial

가 /etc/cluster 가

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



```
# 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_virtd -c
```

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

/etc/fence_virt.conf

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

listeners {
    # Guest OS 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_virtd

```
# service fence_virtd start
# chkconfig fence_virtd on
```

Guest OS

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

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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>
<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
```

- <https://access.redhat.com/solutions/293183>
- <https://access.redhat.com/solutions/917833>

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