

vFuel On Demand Use

Cloud Execution Environment

OPERATING INSTRUCTION

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1 Introduction

This document summarizes the procedure for disabling and enabling vFuel on a single server environment.

1.1 Description

vFuel manages the Cloud Execution Environment (CEE) infrastructure life cycle and runs in a separate virtual machine on CentOS Linux.

vFuel is responsible for the following:

- Installation of the CEE software
- Updates of the CEE software
- Adding and removing hardware resources

To save resources on a single server environment, vFuel is not migrated to the production environment but it is switched off on the kickstart server. vFuel can be reactivated when needed, for example, to add new packages on vCIC or compute nodes, or to do an update.

1.2 Prerequisites

CEE is installed, as described in [CEE Installation](#).



2 Procedure

vCIC and compute nodes run several services or use configurations related to vFuel, as follows:

- Mcollective service
- Nailgun agent
- DNS configuration

Disabling vFuel stops these services and removes all related configurations. Before any update or modification of the environment, vFuel needs to be enabled again.

2.1 Disable vFuel

To disable vFuel, proceed with the following steps on vFuel as root user:

1. Execute the following commands:

```
cd /usr/share/ericsson-orchestration/playbooks  
openstack-ansible fuel-disable.yml
```

The expected output shows only ok and changed statuses and no failed at PLAY RECAP.

Example:



```
[root@fuel playbooks]# openstack-ansible fuel-disable.yml
Variable files: "-e @/etc/openstack_deploy/user_secrets.yml -e @/etc/openstack_deploy/user_variables.yml "
```

```
PLAY [disable fuel related services] *****

TASK: [fail ] *****
skipping: [cic-1]
skipping: [compute-0-1]

TASK: [stop mcollective service] *****
changed: [compute-0-1]
changed: [cic-1]

TASK: [remove fuel and upstream dns entries] *****
changed: [cic-1] => (item=['/etc/resolv.conf', u'192.168.0.11'])
changed: [compute-0-1] => (item=['/etc/resolv.conf', u'192.168.0.11'])
changed: [cic-1] => (item=['/etc/resolv.conf', u'10.51.40.100'])
changed: [compute-0-1] => (item=['/etc/resolv.conf', u'10.51.40.100'])
changed: [cic-1] => (item=['/etc/resolvconf/resolv.conf.d/original', u'192.168.0.11'])
changed: [compute-0-1] => (item=['/etc/resolvconf/resolv.conf.d/original', u'192.168.0.11'])
changed: [compute-0-1] => (item=['/etc/resolvconf/resolv.conf.d/original', u'10.51.40.100'])
changed: [cic-1] => (item=['/etc/resolvconf/resolv.conf.d/original', u'10.51.40.100'])

TASK: [comment out dnsmasq resolv entries] *****
skipping: [compute-0-1] => (item={'dest': '/etc/resolv.dnsmasq.conf', 'regexp': '^([#].*)'})
skipping: [compute-0-1] => (item={'dest': '/etc/dnsmasq.d/dns.conf', 'regexp': '^(^server=.)'})
changed: [cic-1] => (item={'dest': '/etc/resolv.dnsmasq.conf', 'regexp': '^([#].*)'})
changed: [cic-1] => (item={'dest': '/etc/dnsmasq.d/dns.conf', 'regexp': '^(^server=.)'})

TASK: [disable nailgun-agent in cron] *****
changed: [compute-0-1]
changed: [cic-1]

NOTIFIED: [restart dnsmasq] *****
changed: [cic-1]

PLAY RECAP *****
cic-1                : ok=5    changed=5    unreachable=0    failed=0
compute-0-1         : ok=4    changed=3    unreachable=0    failed=0

[root@fuel playbooks]#
```

2. Switch off the Fuel Virtual Machine (VM) by executing the following command:

```
shutdown -h now
```

Using Linux libvirt the VM is listed as shut off:

```
root@compute-0-1:~$ virsh list --all
 Id      Name                               State
-----
 -      fuel_master                        shut off
```

3. To disable autostart of the vFuel after kickstart server reboot, execute the following command:

```
virsh autostart fuel_master --disable
```

vFuel is now disabled. Enabling again is described in Section 2.2 on page 3.

2.2 Enable vFuel

To enable vFuel again, proceed with the following steps. All commands entered on vFuel should be run as the root user.



1. Switch on the vFuel on the kickstart server by executing the following commands:
 - a. Using Linux libvirt, get the <vm_name> by executing the following command:

```
virsh list --inactive
```

- b. Start the vFuel by executing the following command:

```
virsh start <vm_name>
```

- c. To enable autostart of the vFuel after kickstart server reboot, execute the following command:

```
virsh autostart fuel_master
```

2. Log on to the restarted vFuel and ensure that the Fuel services have started successfully by executing the following command:

```
fuel-utils check_all
```

Note: Following a system startup vFuel needs time to initialize services.

3. Some more minutes are needed for vFuel to start operating.

To check if vFuel is operational, execute the following command:

```
fuel node
```

Note: It can be necessary to execute the command several times, until it is successful.

The expected output contains a properly formatted table with the node list.

Note: The nodes online value remains False until vFuel is re-enabled.

```
[root@fuel tasks]# fuel node
id | status | name       | cluster | ip           | mac           | roles           | pending_roles | online | group_id
---|-----|-----|-----|-----|-----|-----|-----|-----|-----
1  | ready  | compute-0-1 | 1       | 192.168.0.20 | 90:55:ae:39:f7:26 | compute, virt  |               | False | 1
2  | ready  | cic-1       | 1       | 192.168.0.22 | 22:03:a8:b3:06:49 | controller    |               | False | 1
[root@fuel tasks]#
```

Figure 1 Node List Example

4. On vFuel, execute the following commands to enable it:

```
cd /usr/share/ericsson-orchestration/playbooks
```

```
openstack-ansible fuel-enable.yml
```

vFuel is enabled again.

The expected output shows only ok and changed statuses and no failed at PLAY RECAP.



Example:

```
[root@fuel playbooks]# openstack-ansible fuel-enable.yml
Variable files: "-e @/etc/openstack_deploy/user_secrets.yml -e @/etc/openstack_deploy/user_variables.yml "
```

PLAY [enable fuel related services] *****

TASK: [fail] *****

```
skipping: [cic-1]
skipping: [compute-0-1]
```

TASK: [start mcollective service] *****

```
changed: [compute-0-1]
changed: [cic-1]
```

TASK: [add fuel and upstream dns entries] *****

```
changed: [cic-1] => (item=['/etc/resolv.conf', u'192.168.0.11'])
changed: [compute-0-1] => (item=['/etc/resolv.conf', u'192.168.0.11'])
changed: [cic-1] => (item=['/etc/resolv.conf', u'10.51.40.100'])
changed: [compute-0-1] => (item=['/etc/resolv.conf', u'10.51.40.100'])
changed: [compute-0-1] => (item=['/etc/resolvconf/resolv.conf.d/original', u'192.168.0.11'])
changed: [cic-1] => (item=['/etc/resolvconf/resolv.conf.d/original', u'192.168.0.11'])
changed: [compute-0-1] => (item=['/etc/resolvconf/resolv.conf.d/original', u'10.51.40.100'])
changed: [cic-1] => (item=['/etc/resolvconf/resolv.conf.d/original', u'10.51.40.100'])
```

TASK: [remove comment from dnsmasq resolv entries] *****

```
skipping: [compute-0-1] => (item={'dest': '/etc/resolv.dnsmasq.conf', 'regexp': '^#(.*?)'})
skipping: [compute-0-1] => (item={'dest': '/etc/dnsmasq.d/dns.conf', 'regexp': '^#(server=.*?)'})
changed: [cic-1] => (item={'dest': '/etc/resolv.dnsmasq.conf', 'regexp': '^#(.*?)'})
changed: [cic-1] => (item={'dest': '/etc/dnsmasq.d/dns.conf', 'regexp': '^#(server=.*?)'})
```

TASK: [enable nailgun-agent in cron] *****

```
changed: [compute-0-1]
changed: [cic-1]
```

NOTIFIED: [restart dnsmasq] *****

```
changed: [cic-1]
```

PLAY RECAP *****

cic-1	: ok=5	changed=5	unreachable=0	failed=0
compute-0-1	: ok=4	changed=3	unreachable=0	failed=0

```
[root@fuel playbooks]#
```