Troubleshooting

field.title = Trouble shooting % 20 in % 20 In stall at ion % 20 Guide % 20 for % 20 Bare % 20 Metal % 20 Service & field. comment = % 0.4 % 0

%0ARelease:%200.1%20on%202016-11-

09%2020:35%0ASHA:%20e3bedc4eadbafbf11c1e26a216e9d40a1839a838%0ASource:%20http://git.openstack.org/cgit/openstack/ironic/tree/install-guide/source/troubleshooting.rst%0AURL: http://docs.openstack.org/project-install-guide/baremetal/draft/troubleshooting.html&field.tags=install-guide)

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Maintenance mode

Once all the services are running and configured properly, and a node has been enrolled with the Bare Metal service and is in the available provision state, the Compute service should detect the node as an available resource and expose it to the scheduler.

Note

There is a delay, and it may take up to a minute (one periodic task cycle) for the Compute service to recognize any changes in the Bare Metal service's resources (both additions and deletions).

In addition to watching nova-compute log files, you can see the available resources by looking at the list of Compute hypervisors. The resources reported therein should match the bare metal node properties, and the Compute service flavor.

Here is an example set of commands to compare the resources in Compute service and Bare Metal service:

```
$ ironic node-list
| UUID
                                       | Instance UUID | Power State | Provisioning State | Maintenance
 86a2b1bb-8b29-4964-a817-f90031debddb | None
                                                        | power off
                                                                      | available
                                                                                            | False
$ ironic node-show 86a2b1bb-8b29-4964-a817-f90031debddb
I Property
                         | Value
 instance_uuid
                           None
 properties
                           {u'memory_mb': u'1024', u'cpu_arch': u'x86_64', u'local_gb': u'10',
                           u'cpus': u'1'}
 maintenance
                           False
                           { [SNIP] }
| driver_info
 extra
                           {}
 last_error
| created_at
                           2014-11-20T23:57:03+00:00
 target_provision_state |
                           None
 driver
                           pxe_ipmitool
 updated_at
                           2014-11-21T00:47:34+00:00
 instance_info
| chassis_uuid
                           7b49bbc5-2eb7-4269-b6ea-3f1a51448a59
 provision state
                           available
 reservation
                           None
 power_state
                           power off
 console_enabled
                           False
l uuid
                           86a2b1bb-8b29-4964-a817-f90031debddb
$ nova hypervisor-show 1
| Property
                          I Value
 cpu_info
                            baremetal cpu
 current_workload
                            0
 disk_available_least
l free disk ab
                            10
 free_ram_mb
                            1024
 host_ip
                            [ SNIP ]
| hypervisor_hostname
                          | 86a2b1bb-8b29-4964-a817-f90031debddb
 hypervisor_type
                            ironic
 hypervisor_version
                          1 1
 id
                            1
                            10
 local_gb
| local_gb_used
                          0
                            1024
 memory_mb
```

Maintenance mode ¶

service_disabled_reason

| memory_mb_used

| running_vms

| service_host | service_id

vcpus used

state

| status | vcpus

Maintenance mode may be used if you need to take a node out of the resource pool. Putting a node in maintenance mode will prevent Bare Metal service from executing periodic tasks associated with the node. This will also prevent Compute service from placing a tenant instance on the node by not exposing the node to the nova scheduler. Nodes can be placed into maintenance mode with the following command.

```
$ ironic node-set-maintenance $NODE_UUID on
```

As of the Kilo release, a maintenance reason may be included with the optional —reason command line option. This is a free form text field that will be displayed in the maintenance_reason section of the node—show command.

a

0

6

| up | enabled

| 1

my-test-host

- \$ ironic node-show \$UUID

| Property | Value |
|---|--|
| target_power_state extra last_error updated_at maintenance_reason maintenance | None {} None 2015-04-27T15:43:58+00:00 Need to add ram. True |

To remove maintenance mode and clear any maintenance_reason use the following command.

\$ ironic node-set-maintenance \$NODE_UUID off

09%2020:35%0ASHA:%20e3bedc4eadbafbf11c1e26a216e9d40a1839a838%0ASource:%20http://git.openstack.org/cgit/openstack/ironic/tree/install-guide/source/troubleshooting.rst%0AURL: http://docs.openstack.org/project-install-guide/baremetal/draft/troubleshooting.html&field.tags=install-guide)

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FOUND AN ERROR? REPORT A BUG (HTTPS://BUGS.LAUNCHPAD.NET/IRONIC/+FILEBUG?

QUESTIONS? (HTTP://ASK.OPENSTACK.ORG)

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