



**Doctor User Guide**  
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**OPNFV**

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## DOCTOR CAPABILITIES AND USAGE

### 1.1 Immediate Notification

Immediate notification can be used by creating 'event' type alarm via OpenStack Alarming (Aodh) API with relevant internal components support.

See, upstream spec document: <http://specs.openstack.org/openstack/ceilometer-specs/specs/liberty/event-alarm-evaluator.html>

An example of a consumer of this notification can be found in the Doctor repository. It can be executed as follows:

```
git clone https://gerrit.opnfv.org/gerrit/doctor -b stable/brahmaputra
cd doctor/tests
CONSUMER_PORT=12346
python consumer.py "$CONSUMER_PORT" > consumer.log 2>&1 &
```

### 1.2 Consistent resource state awareness

Resource state of compute host can be changed/updated according to a trigger from a monitor running outside of OpenStack Compute (Nova) by using force-down API.

See [http://artifacts.opnfv.org/doctor/brahmaputra/docs/manuals/mark-host-down\\_manual.html](http://artifacts.opnfv.org/doctor/brahmaputra/docs/manuals/mark-host-down_manual.html) for more detail.

### 1.3 Valid compute host status given to VM owner

The resource state of a compute host can be retrieved by a user with the OpenStack Compute (Nova) servers API.

See <http://artifacts.opnfv.org/doctor/docs/manuals/get-valid-server-state.html> for more detail.