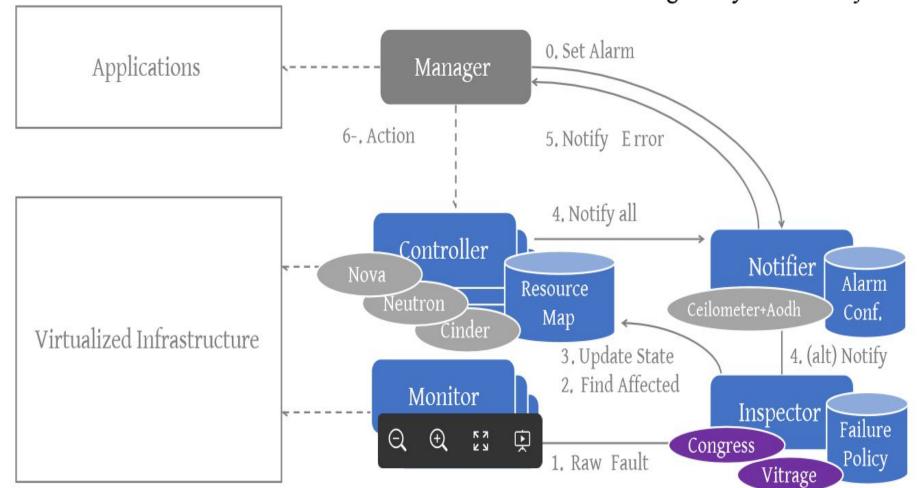
Smart Inspector Doctor Project Implementation

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Designed by Doctor Project



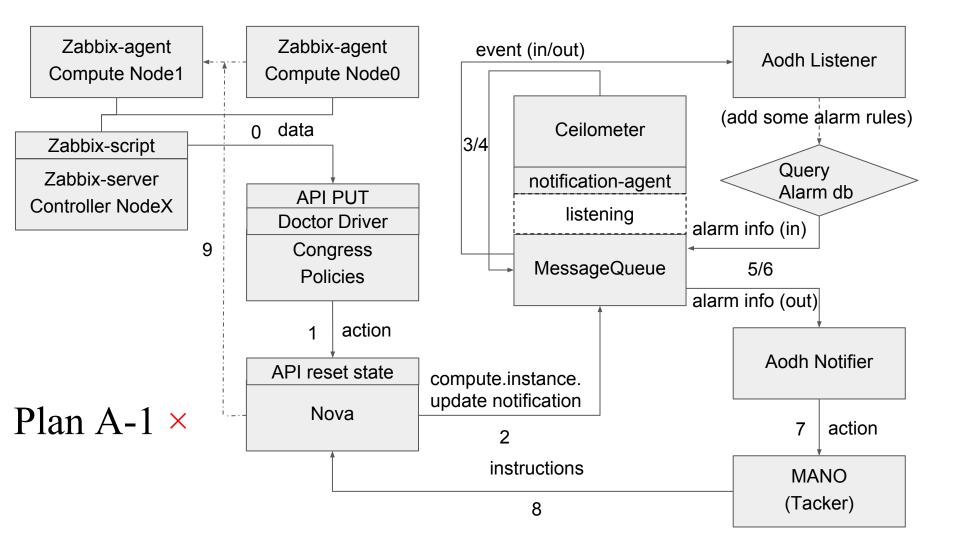
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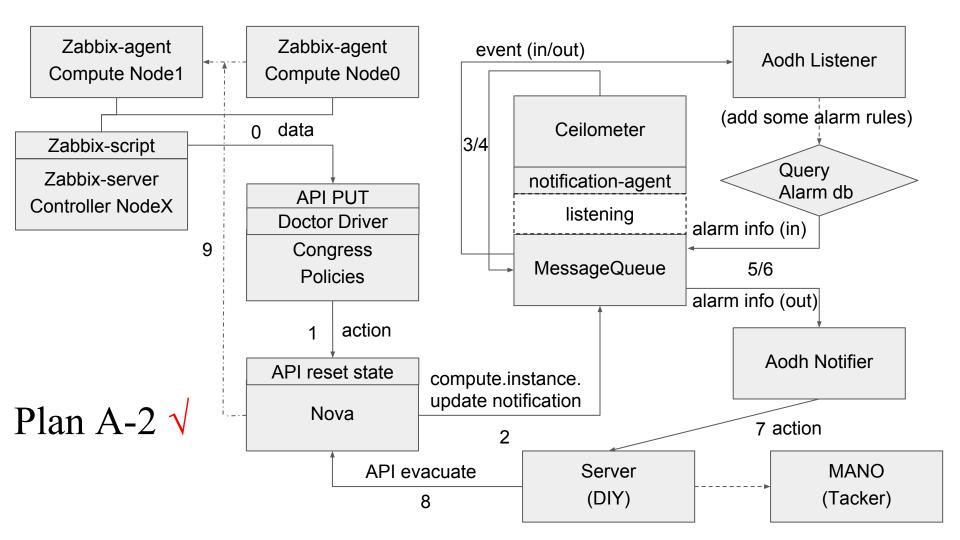
OPNFV Apex Deployment Details

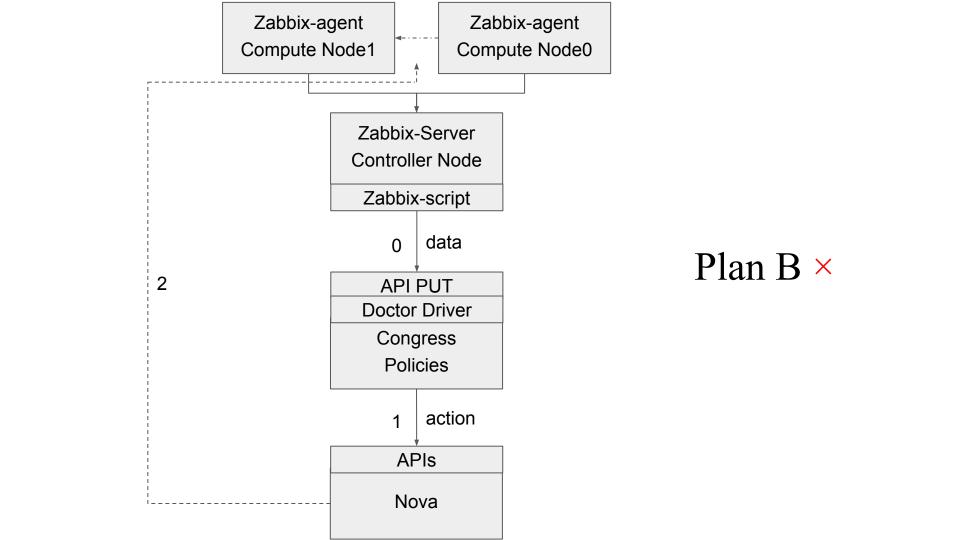
```
opnfv-deploy -v --virtual-cpus 8 \
    --virtual-computes 5 \
    --virtual-compute-ram 64 \
    -n network_settings.yaml \
    -d os-nosdn-nofeature-ha.yaml --debug
```

← OverCloud →				
Controller 0	Compute 0	Compute 1	Compute 2	Compute 3
UnderCloud				
Real Server				

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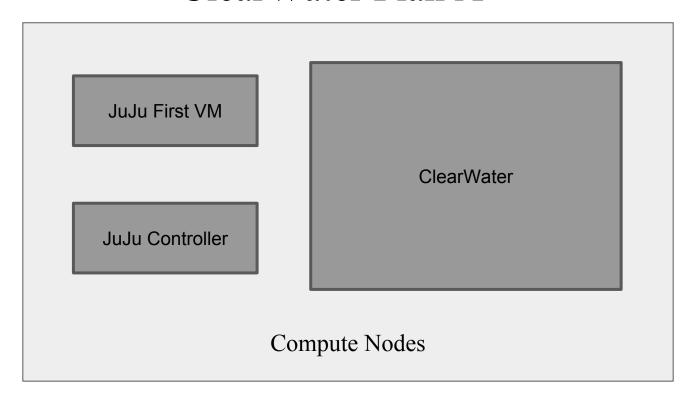






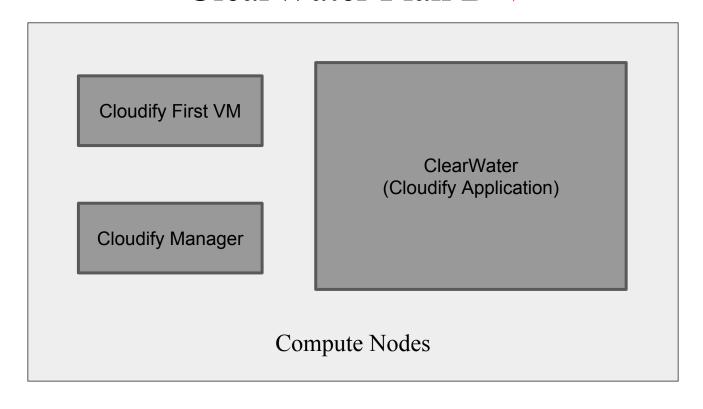
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ClearWater Plan A ×

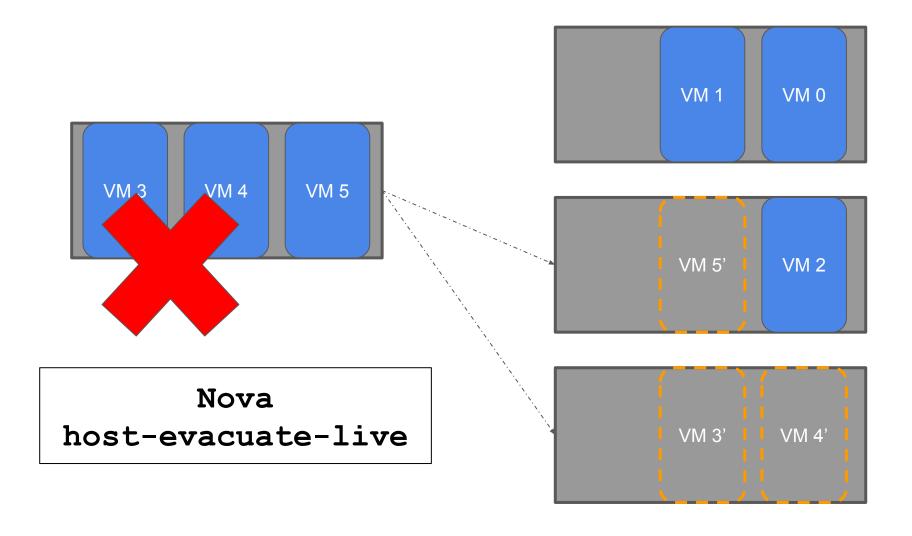


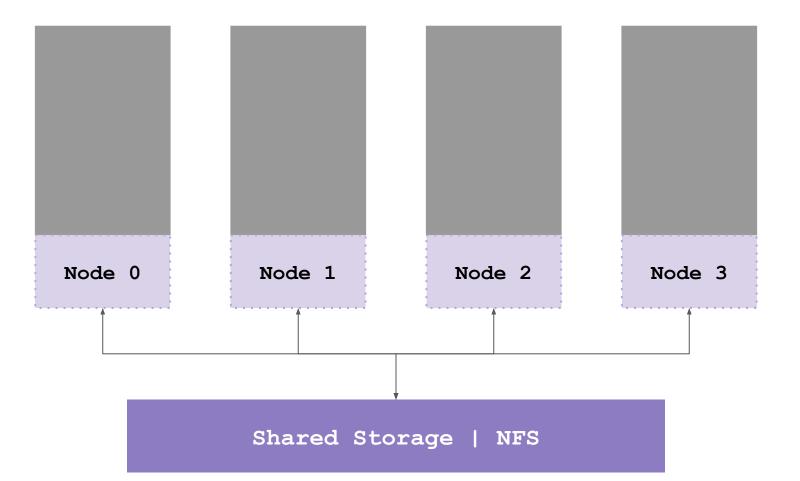
Hook installed failed

ClearWater Plan B √

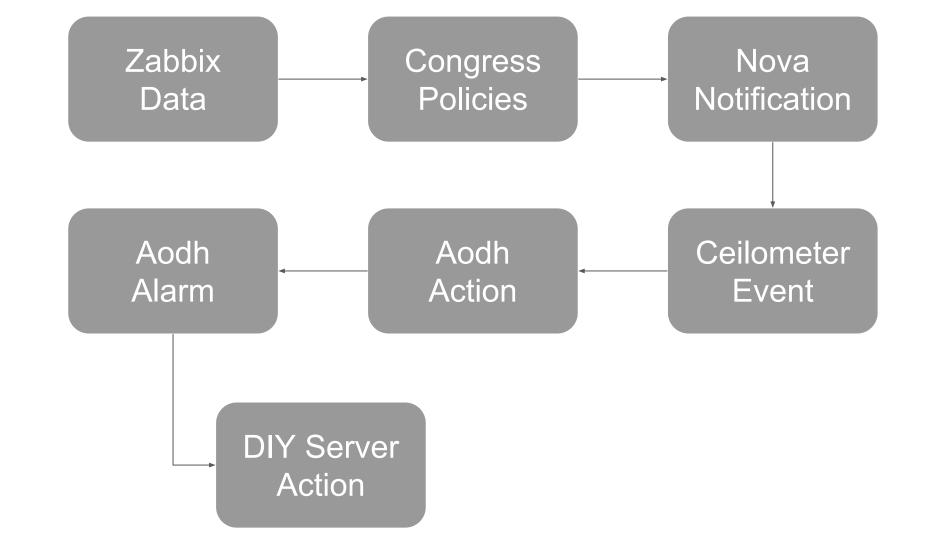


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Zabbix Data

PUT /v1/data - sources/doctor/tables/events/rows

```
request body:
        "time": "2016 - 02 - 22T11:48:55Z",
        "type": "compute.host.down",
        "details": {
            "hostname": "compute1",
            "status": "down",
            "monitor": "zabbix1",
            "monitor event id": "111"
```

Congress Policies

```
openstack congress policy rule create \
    - - name host down classification \
    'host down(host) : - \
    doctor:events(hostname=host, \
    type="compute.host.down", status="down")'
openstack congress policy rule create \
    - - name active instance in host classification \
    'active instance in host(vmid, host) : - \
    nova:servers(id=vmid, host name=host, \
    status="ACTIVE") '
openstack congress policy rule create \
    - - name host force down classification \
    'execute[nova:services.force down(host, \
    "nova - compute", "True")] : - \
    host down (host) '
openstack congress policy rule create \
    - - name error vm states classification \
    'execute[nova:servers.reset state(vmid, "error")] \
    : - host down(host), \
    active instance in host(vmid, host)'
```

Nova Notification

```
"event type": "instance.update",
"payload": {
    "nova object.data": {
        "host": "compute",
        "host name": "some-server",
        "state": "error",
        "state update": {
            "nova object.data": {
                "new task state": null,
                "old state": "running",
                "old task state": null,
                "state": "error"
             },
         },
        "tenant id": ...,
        "flavor": {...},
},
```

Ceilometer Event

```
- event type: 'compute.instance.*'
  traits: &instance traits
   tenant id:
   fields: payload.tenant id
   user id:
   fields: payload.user id
   instance id:
   fields: payload.instance id
   host:
   fields: publisher id.`split(., 1, 1)`
   state:
   fields: payload.state
```

Aodh Action

```
aodh alarm create \
   --name test alarm \
   --type event \
   --alarm-action
"http://127.0.0.1:12346/failure" \
    --repeat-actions false \
   --event-type
compute.instance.update \
   --query "traits.state=string:error"
```

Aodh Alarm

```
"severity": "low",
    "alarm name": "test alarm4",
    "current": "alarm",
    "alarm id": "c624a1b6-da6a-45b9-b4de-d46aed49c5e4",
    "reason data": {
     "type": "event",
     "event": {
         "event type": "compute.instance.update",
         "traits": [
             ["state", 1, "error"],
             ["user id", 1,
"9f248df069f24ab6bfc07b729450aaba"],
             ["tenant id", 1,
"a871cfb039644721bcadd108d75b35d7"],
             ["instance id", 1,
"91562873-61f4-4f06-aace-05a2ff9c1dfb"],
             ["host", 1,
"overcloud-controller-0.opnfvlf.org"],
```

DIY Server Action

POST /servers/{server_id}/action

```
"evacuate": {
    "host": "b419863b7d814906a68fb31703c0dbd6",
    "adminPass": "MySecretPass",
    "onSharedStorage": "True"
}
```

End