Challenge#5:
Remove the duplicated information from VDUR in VNFR for Vertical-scaling operation

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The Challenge (Bug 2109)

After vertical scaling

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Problems Found

- Bug 2254: Vertical scaling operation should fail if it is not completed.
Problems Found

- Bug 2257: KeyError exception is raised during vertical scaling

Traceback (most recent call last):
  File "/usr/lib/python3/dist-packages/osm_ng_ro/ns_thread.py", line 2419, in _process_pending_tasks
    ) = self.item2class[task["item"]].exec(
  File "/usr/lib/python3/dist-packages/osm_ng_ro/ns_thread.py", line 1535, in exec
    resized_status = target_vim.resize_instance(
  File "/usr/lib/python3/dist-packages/osm_rovim_openstack/vimconn_openstack.py", line 3835, in resize_instance
    instance_status, old_flavor_id, compute_host] = self.get_vdu_state(vm_id)
  File "/usr/lib/python3/dist-packages/osm_rovim_openstack/vimconn_openstack.py", line 3679, in get_vdu_state
    server_dict["OS-EXT-SRV-ATTR:host"]
KeyError: 'OS-EXT-SRV-ATTR:host'
Problems Found

- Bug 2255: VNFr and NSr do not reflect reality after vertical scaling

Values related to storage, memory and vcpu are not updated.
Problems Found

- Bug 2258: Incorrect value is set to VIM status when vertical scaling is successful

```
ro_vim_item_update = {
    "vim_id": vim_vm_id,
    "vim_status": "DONE",
    "created": created,
    "created_items": created_items,
    "vim_details": None,
    "vim_message": None,
}
```

"ACTIVE"
Next Steps

https://osm.etsi.org/gerrit/c/osm/RO/+/13532

- Increase test coverage for vertical scaling.
- Finish bug 2109 fix.
- Address the new bugs.
Thank You!

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The Fix

target_record = "vnfrs:{}.vdur.{}.vim_info.{}.format(vnf["_id"], vdu_index, target_vim)"