



Challenge#5:

Remove the duplicated information from VDUR in VNFR for Vertical-scaling operation

Patricia Reinoso (Canonical)

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The Challenge (Bug 2109)



vdur	[1 element]	Array
▼ 🖸 [0]	{ 22 fields }	Obje
idid	f179d7f1-a501-4cad-b59e-50af85313033	Strin
🕨 💷 additionalParams	{ 1 field }	Obje
Image:	[0 elements]	Array
Image-ids	[3 elements]	Array
count-index	0	Int32
🛄 id	f179d7f1-a501-4cad-b59e-50af85313033	Strin
Interfaces	[1 element]	Array
Internal-connection-point	[1 element]	Arra
ip-address	192.168.251.16	Strin
📟 ns-flavor-id	0	Strin
📟 ns-image-id	0	Strin
📟 vdu-id-ref	hackfest_basic-VM	Strin
wdu-name	hackfest_basic-VM	Strin
🔻 💷 vim info	{ 1 field }	Obje
vim:1489c936-30fd-4e27-bb79-29991adb21f4	{ 7 fields }	Obje
Interfaces	[1 element]	Arra
interfaces_backup	[1 element]	Arra
vim_details	{'OS-DCF:diskConfig': MANUAL, 'OS-EXT-AZ:availability_zone': nova, 'OS-EXT-SR	Strin
"" vim_id	88b15204-bcda-417f-8e15-eaf09dabd5f9	Strin
wim_message	null	Null
"" vim_status	ACTIVE	Strin
wim_name	test7-vnf-hackfest_basic-VM-0	Strin
virtual-storages	[1 element]	Arra
"" status	ACTIVE	Strin
wim-id	88b15204-bcda-417f-8e15-eaf09dabd5f9	Strin
"" name	test7-vnf-hackfest_basic-VM-0	Strin
📟 vim details	VOS-DCF:diskConfig': MANUAL, 'OS-EXT-AZ:availability_zone': nova, 'OS-EXT-SR	Strin
💴 vim_id	88b15204-bcda-417f-8e15-eaf09dabd5f9	Strin
wim_message	null	Null
💻 vim status	DONE	Strin
💷 connection-point	[1 element]	Arra
ip-address	192.168.251.16	Strin
* revision	1	Int32

After vertical scaling



• Bug 2254: Vertical scaling operation should fail if it is not completed.

2023-06-13T10:21:29.108Z [ro] 2023-06-13T10:21:29 ERROR ro.worker0 ns_thread.py:1439 Error creating flavor at VIM Forbidden: Policy doesn't allow os_compute_api:os-flavor-manage:create to be performed. (HTTP 403) (Request-ID: req-e840aa98-1936-4cf3-a29e-322aac8e1a03). **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 az = 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

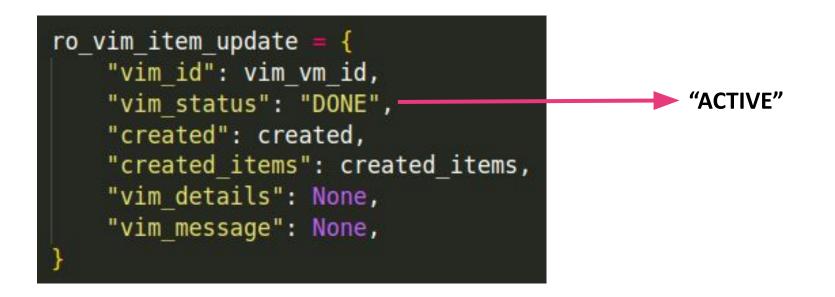


• Bug 2255: VNFr and NSr do not reflect reality after vertical scaling

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



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





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!



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

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