

Instantiation Stability tests

Integration/SO team

Reminder

- Instantiation stability tests are launched in weekly chained
- The test consist in running 10 basic_vm tests in parallel during 24

Reminder on the basic_vm test

basic_vm

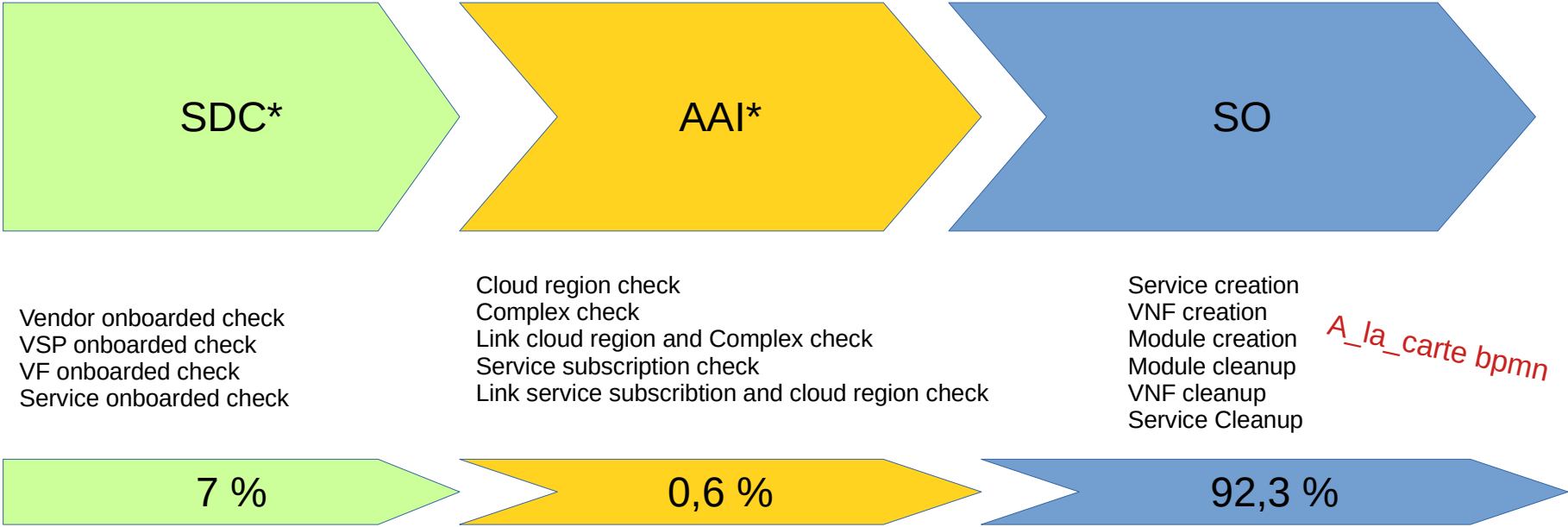
Description: Onboarding, distribution and instantiation of an Ubuntu VM using à la carte

Components: SDC, DMAAP, AAI, SO, SDNC

[Logs](#)

Name	Status	Duration (seconds)
[SO] YamlTemplateServiceAlaCarteInstantiateStep cleanup: Instantiate service described in YAML using SO a'la carte method.	PASS	23.43
[SO] YamlTemplateVnfAlaCarteInstantiateStep cleanup: Instantiate vnf described in YAML using SO a'la carte method.	PASS	39.27
[SO] YamlTemplateVfModuleAlaCarteInstantiateStep cleanup: Instantiate VF module described in YAML using SO a'la carte method.	PASS	73.58
[SO] YamlTemplateVfModuleAlaCarteInstantiateStep: Instantiate VF module described in YAML using SO a'la carte method.	PASS	109.84
[SO] YamlTemplateVnfAlaCarteInstantiateStep: Instantiate vnf described in YAML using SO a'la carte method.	PASS	31.07
[SO] YamlTemplateServiceAlaCarteInstantiateStep: Instantiate service described in YAML using SO a'la carte method.	PASS	320.91
[AAI] ConnectServiceSubToCloudRegionStep: Connect service subscription with cloud region.	PASS	0.9
[AAI] CustomerServiceSubscriptionCreateStep: Create customer's service subscription.	PASS	9.35
[AAI] CustomerCreateStep: Create customer.	PASS	0.28
[AAI] LinkCloudRegionToComplexStep: Connect cloud region with complex.	PASS	0.42
[AAI] ComplexCreateStep: Create complex.	PASS	0.11
[AAI] RegisterCloudRegionStep: Register cloud region.	PASS	0.94
[AAI] CloudRegionCreateStep: Create cloud region.	PASS	0.29
[SDC] YamlTemplateServiceOnboardStep: Onboard service described in YAML file in SDC.	PASS	76.42
[SDC] YamlTemplateVfOnboardStep: Onboard vf described in YAML file in SDC.	PASS	68.21
[SDC] YamlTemplateVspOnboardStep: Onboard vsp described in YAML file in SDC.	PASS	69.13
[SDC] VendorOnboardStep: Onboard vendor in SDC.	PASS	2.28

Reminder on the basic_vm test



* : Note : basic_vm already executed within « usual » CI so most of the needed ONAP resources have been created (model, cloud region, complex,...)

Results (after 24h) are pushed to LF backend

https://logs.onap.org/onap-integration/weekly/onap_weekly_pod4_master/

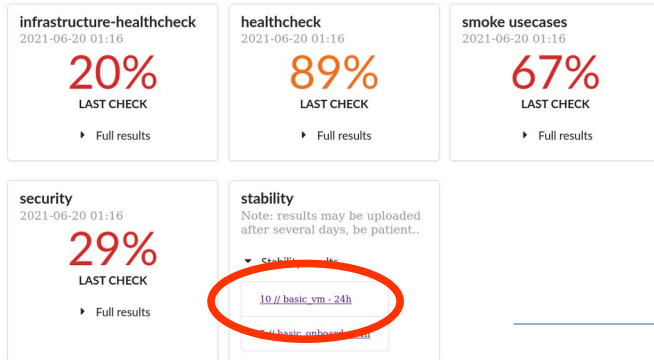
(duration, success) = f(time)

ONAPTEST Bench

Summary

ONAP Xtesting results

51% LAST CHECK
 ↑ TREND
 MASTER ONAP VERSION
 ORANGE LAB OWNER

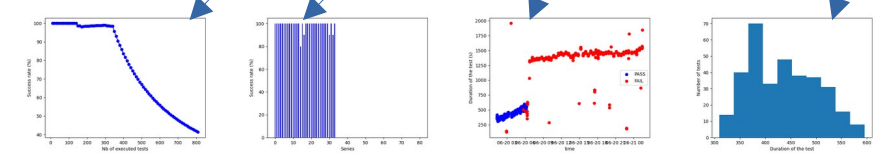


basic_vm

Number of tests: 810
 Global success rate: 41%
 Number of simultaneous tests: 10
 Test duration: 1440 m
 Number of executed series: 81
 Min duration: 126
 Max duration: 1956
 Mean duration: 990

global success rate = f(nb tests executed)
 success rate = f(serie)

duration histogram

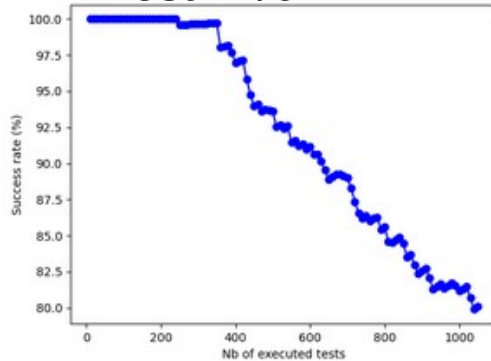


Serie	Success Rate	Min	Max	Mean	Median
serie1	100.0%	346	419	378.1	374.5
serie2	100.0%	309	341	331.1	334.0
serie3	100.0%	314	373	350.5	352.0
serie4	100.0%	336	359	348.5	348.5
serie5	100.0%	329	364	346.8	347.0
serie6	100.0%	354	387	373.8	376.5
serie7	100.0%	361	394	374.1	374.0
serie8	100.0%	352	395	375.0	374.0
serie9	100.0%	368	397	384.0	384.0
serie10	100.0%	331	396	372.2	379.5
serie11	100.0%	343	402	377.5	382.5
serie12	100.0%	381	431	411.9	411.0
serie13	100.0%	367	410	387.1	391.0
serie14	100.0%	373	424	396.9	394.0
serie15	80.0%	126	404	338.4	386.5
serie16	100.0%	399	453	423.9	426.5
serie17	90.0%	396	1956	586.2	436.0
serie18	100.0%	379	448	427.9	429.5
serie19	100.0%	402	449	428.0	429.5
serie20	100.0%	399	466	439.1	436.0

Stats per serie (success rate, min time, max time, Mean, average)
 Green : success rate > 80 %
 Yellow : 10-80 %
 Red : 0 %

Zoom on figures

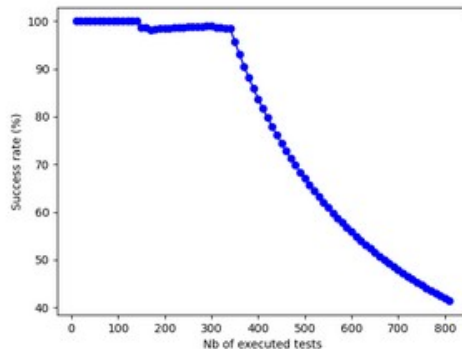
Test 11/6



After 24h, we can see on this figure
1000+ tests have been executed
Success rate at t+24h = 80 %
Success rate above 98 % until 400 tests (40 series)

https://logs.onap.org/onap-integration/weekly/onap_weekly_pod4_master/2021-06/11_22-55/stability/results_instantiation_10_24h//onaptests_bench.html

Test 19/6

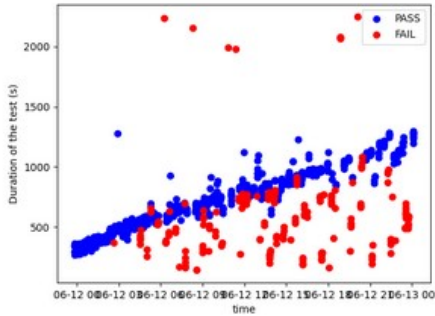


After 24h, we can see on this figure
800+ tests have been executed
Success rate at t+24h = 40 %
Success rate above 98 % until 400 tests (40 series)

https://logs.onap.org/onap-integration/weekly/onap_weekly_pod4_master/2021-06/19_22-22/stability/results_instantiation_10_24h//onaptests_bench.html

Zoom on figures

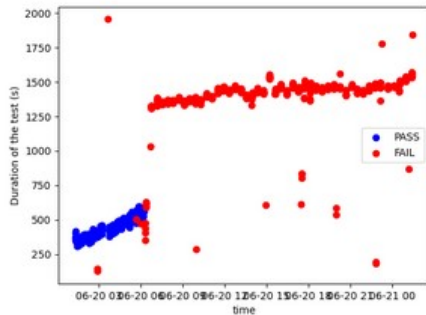
Test 11/6



After 24h, we still have PASS tests
Linear increase of the duration (x2 in 24h)

https://logs.onap.org/onap-integration/weekly/onap_weekly_pod4_master/2021-06/11_22-55/stability/results_instantiation_10_24h//onaptests_bench.html

Test 19/6



All tests are FAIL after few hours (serie 35)

https://logs.onap.org/onap-integration/weekly/onap_weekly_pod4_master/2021-06/19_22-22/stability/results_instantiation_10_24h//onaptests_bench.html

Troubleshooting...

- Tests are executed on Master weekly
 - Logs available 1 week
 - Possible to grant access to the lab
 - Tester logs pushed to backend

Troubleshooting

serie34	100.0%	491	527	508.9	511.5
serie35	100.0%	503	562	526.8	520.5
serie36	40.0%	358	569	473.2	454.0
serie37	100.0%	496	582	547.0	543.5
serie38	100.0%	523	592	578.0	582.0

First error = Serie 36

serie78	50.0%	555	1078	802.0	877.5
serie79	20.0%	533	1228	825.2	883.5
serie80	100.0%	857	957	916.8	920.5
serie81	0.0%	187	686	381.1	240.0
serie82	80.0%	583	1103	915.6	964.0
serie83	100.0%	925	987	963.8	976.5
serie84	100.0%	928	979	962.2	963.5
serie85	50.0%	717	990	857.8	858.0
serie86	0.0%	225	774	314.5	277.5
serie87	100.0%	966	1124	1023.5	1023.5

First serie full error = Serie 81

serie	throughput	Min	Max	Mean	StdDev
serie34	100.0%	275	326	300.0	10.0
serie35	100.0%	278	304	291.0	10.0
serie36	40.0%	278	304	291.0	10.0
serie37	100.0%	278	304	291.0	10.0
serie38	100.0%	278	304	291.0	10.0
serie78	50.0%	278	304	291.0	10.0
serie79	20.0%	278	304	291.0	10.0
serie80	100.0%	278	304	291.0	10.0
serie81	0.0%	278	304	291.0	10.0
serie82	80.0%	278	304	291.0	10.0
serie83	100.0%	278	304	291.0	10.0
serie84	100.0%	278	304	291.0	10.0
serie85	50.0%	278	304	291.0	10.0
serie86	0.0%	278	304	291.0	10.0
serie87	100.0%	278	304	291.0	10.0

Troubleshooting

- Logs available on the lab (not pushed to backend)
- Tester logs available

- https://logs.onap.org/onap-integration/weekly/onap_weekly_pod4_master/2021-06/11_22-55/stability/results_instantiation_10_24h/onaptests_bench.html

- https://logs.onap.org/onap-integration/weekly/onap_weekly_pod4_master/2021-06/11_22-55/stability/results_instantiation_10_24h/

Index of /onap-integration/weekly/onap_weekly_pod4_master/2021-06/11_22-55/stability/results_instantiation_10_24h

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
Parent Directory	-	-	-
bar_mygraph.png	2021-06-14 00:20	13K	
histo_mygraph.png	2021-06-14 00:20	14K	
mygraph.png	2021-06-14 00:20	31K	
onaptests_bench.html.gz	2021-06-14 00:20	3.1K	
rate_mygraph.png	2021-06-14 00:20	25K	
serie1/	2021-06-14 00:20	-	
serie2/	2021-06-14 00:20	-	
serie3/	2021-06-14 00:20	-	
serie4/	2021-06-14 00:20	-	
serie5/	2021-06-14 00:20	-	
serie6/	2021-06-14 00:20	-	
serie7/	2021-06-14 00:20	-	
serie8/	2021-06-14 00:20	-	
serie9/	2021-06-14 00:20	-	
serie10/	2021-06-14 00:20	-	
serie11/	2021-06-14 00:20	-	
serie12/	2021-06-14 00:20	-	
serie13/	2021-06-14 00:20	-	
serie14/	2021-06-14 00:20	-	
serie15/	2021-06-14 00:20	-	
serie16/	2021-06-14 00:20	-	
serie17/	2021-06-14 00:20	-	
serie18/	2021-06-14 00:20	-	
serie19/	2021-06-14 00:20	-	
serie20/	2021-06-14 00:20	-	
serie21/	2021-06-14 00:20	-	
serie22/	2021-06-14 00:20	-	
serie23/	2021-06-14 00:20	-	
serie24/	2021-06-14 00:20	-	
serie25/	2021-06-14 00:20	-	



<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
Parent Directory	-	-	-
test1/	2021-06-14 00:20	-	
test2/	2021-06-14 00:20	-	
test3/	2021-06-14 00:20	-	
test4/	2021-06-14 00:20	-	
test5/	2021-06-14 00:20	-	
test6/	2021-06-14 00:20	-	
test7/	2021-06-14 00:20	-	
test8/	2021-06-14 00:20	-	
test9/	2021-06-14 00:20	-	
test10/	2021-06-14 00:20	-	



<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
Parent Directory	-	-	-
pythonsdk.debug.log.gz	2021-06-14 00:20	3.0K	
reporting.html.gz	2021-06-14 00:20	1.6K	
xtesting.log.gz	2021-06-14 00:20	826	

Troubleshooting

https://logs.onap.org/onap-integration/weekly/onap_weekly_pod4_master/2021-06/11_22-55/stability/results_instantiation_10_24h//serie36/test1/pythonsdk.debug.log.gz

```
2021-06-12 04:29:16,126 INFO 116:onap_service.py(1) - [None][Instantiate basic_vm service vf module basic_vm0.BasicVm..base_ubuntu20..module-0] response code: 202
2021-06-12 04:29:42,219 INFO 116:onap_service.py(10) - [None][Check d371873a-8618-4b9f-95b3-222999bf9b34 orchestration request status] response code: 200
''''
2021-06-12 04:31:46,241 INFO 116:onap_service.py(10) - [None][Check d371873a-8618-4b9f-95b3-222999bf9b34 orchestration request status] response code: 200
2021-06-12 04:31:46,242 INFO 56:mixins.py(10) - VfModuleInstantiation task finished
2021-06-12 04:31:46,380 INFO 116:onap_service.py(10) - [None][Check d371873a-8618-4b9f-95b3-222999bf9b34 orchestration request status] response code: 200
''''
2021-06-12 04:31:46,802 INFO 116:onap_service.py(1) - [None][Check d371873a-8618-4b9f-95b3-222999bf9b34 orchestration request status] response code: 200
2021-06-12 04:31:46,803 INFO 36:basic_vm.py(1) - VNF basic_vm successfully created
2021-06-12 04:31:46,803 INFO 39:basic_vm.py(1) - VNF basic_vm cleanup called
2021-06-12 04:31:56,920 INFO 116:onap_service.py(1) - [AAI][Get object relationships] response code: 200
2021-06-12 04:31:57,030 INFO 116:onap_service.py(1) - [AAI][Get 5291cc15-09d8-4dba-b415-c9fc78744965 <class 'abc.ABCMeta'>] response code: 200
2021-06-12 04:31:57,035 INFO 165:vf_module_ala_carte.py(1) - Get VF Modules
2021-06-12 04:31:57,113 INFO 116:onap_service.py(1) - [AAI][GET VNF basic_vm-bfb6785e-bece-49f2-99e0-7faee6043513_vnf_0 VF modules] response code: 200
2021-06-12 04:31:57,118 INFO 167:vf_module_ala_carte.py(1) - Delete VF Module AAI
2021-06-12 04:31:57,215 INFO 116:onap_service.py(1) - [AAI][Get object relationships] response code: 200
2021-06-12 04:31:57,424 INFO 116:onap_service.py(1) - [AAI][get cloud regions] response code: 200
2021-06-12 04:31:57,479 INFO 116:onap_service.py(1) - [AAI][Get object relationships] response code: 200
2021-06-12 04:31:57,589 INFO 116:onap_service.py(1) - [AAI][get cloud regions] response code: 200
2021-06-12 04:32:27,999 INFO 116:onap_service.py(1) - [None][Create 0e275504-f1d6-476e-8708-bd0545e281eb VF moduledeletion request] response code: 500
2021-06-12 04:32:28,000 ERROR 129:onap_service.py(1) - [None][Create 0e275504-f1d6-476e-8708-bd0545e281eb VF moduledeletion request] API returned and error: {'Content-Type': 'application/json', 'Accept': 'application/json', 'x-fromappid': 'AAI', 'x-transactionid': 'AAI', 'x-transactionid': '26073e84-fdb6-4831-85e2-4aa24b4a4349', 'authorization': 'Basic SW5mcmFQb3J0YXVxDbG1bnQ6cGFzc3dvcmQxJA==', 'cache-control': 'no-cache'}
2021-06-12 04:32:28,001 ERROR 212:onap_service.py(1) - [None][Create 0e275504-f1d6-476e-8708-bd0545e281eb VF moduledeletion request] request failed: Code: 500. Info: {"message": "Unexpected Internal Exception"}.
2021-06-12 04:32:28,786 ERROR 51:basic_vm.py(1) - SDK Exception
2021-06-12 04:32:28,002 INFO 176:run_tests.py(1) - Test result:
+-----+
| TEST CASE | PROJECT | DURATION | RESULT |
+-----+
| basic_vm | integration | 06:37 | FAIL |
+-----+
```

https://logs.onap.org/onap-integration/weekly/onap_weekly_pod4_master/2021-06/11_22-55/stability/results_instantiation_10_24h//serie81/test1/pythonsdk.debug.log.gz

```
2021-06-12 16:08:06,697 INFO 116:onap_service.py(1) - [None][Instantiate basic_vm service a la carte] response code: 202
2021-06-12 16:08:06,865 INFO 116:onap_service.py(8) - [None][Check 7add509e-478a-4f02-84ac-40413ad39cd3 orchestration request status] response code: 200
''''
2021-06-12 16:09:37,783 INFO 116:onap_service.py(8) - [None][Check 7add509e-478a-4f02-84ac-40413ad39cd3 orchestration request status] response code: 404
2021-06-12 16:09:37,785 ERROR 129:onap_service.py(8) - [None][Check 7add509e-478a-4f02-84ac-40413ad39cd3 orchestration request status] API returned and error: {'Content-Type': 'application/json', 'Accept': 'application/json', 'x-fromappid': 'AAI', 'x-transactionid': '57e162c8-f48d-4e2b-811a-ec93bf92a43e', 'authorization': 'Basic SW5mcmFQb3J0YXVxDbG1bnQ6cGFzc3dvcmQxJA==', 'cache-control': 'no-cache'}
2021-06-12 16:09:37,786 ERROR 212:onap_service.py(8) - [None][Check 7add509e-478a-4f02-84ac-40413ad39cd3 orchestration request status] request failed: Code: 404. Info: {"requestError":{"serviceException":{"messageId":"4010","text":"Exception occurred while communicating with RequestDb during InfraActiveRequest lookup"}}}.
2021-06-12 16:10:07,967 ERROR 212:onap_service.py(1) - [None][Check 7add509e-478a-4f02-84ac-40413ad39cd3 orchestration request status] request failed: Code: 404. Info: {"requestError":{"serviceException":{"messageId":"4010","text":"Exception occurred while communicating with RequestDb during InfraActiveRequest lookup"}}}.
2021-06-12 16:10:07,967 ERROR 190:base.py(1) - No execution start time saved for YamlTemplateVnfAlaCarteInstantiateStep step. Fix it by call `super.execute()` in step class `execute()` method definition
2021-06-12 16:10:07,967 ERROR 190:base.py(1) - No execution start time saved for YamlTemplateVnfModuleAlaCarteInstantiateStep step. Fix it by call `super.execute()` in step class `execute()` method definition
2021-06-12 16:10:07,968 ERROR 48:basic_vm.py(1) - Generic OnapTest exception
2021-06-12 16:10:07,968 INFO 176:run_tests.py(1) - Test result:
+-----+
| TEST CASE | PROJECT | DURATION | RESULT |
+-----+
| basic_vm | integration | 04:02 | FAIL |
+-----+
```

Next

- Understand the errors..SO support needed...SO is our entry point for instantiation, issue may be in SO/DB/SDNC/SDC/AAI...but currently main errors are coming from the SO module and need to be analyzed
- Server logs corresponding to issues put in Jira
<https://jira.onap.org/browse/INT-1925>
- A first DB Tuning has been tried :
<https://gerrit.onap.org/r/c/oom/+/121229>
 - Good results on SDC (Cassandra) but not on SO (mariadb-galera)