

Analzyis of CNCF CNF Conformance, RA2 and RC2 CNF tests

This page collects the CNF requirements in RA2, RC2 and in CNCF CNF Conformance / CNF Testbed.

The original analyzis page for introducing the CNF requirements in RA2: [Analysis of CNCF CNF Testsuite tests for RA2](#)

[CNF Testsuite points.yaml](#)

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- RA2: <https://github.com/anuket-project/anuket-specifications/pull/3352>

CNF Testsuite	CNF Conformance	RA2	RA2	RC2	What to do?
increase_decrease_capacity	essential	ra2. app. 038	should must (3352)	should	Add a link to CNF Testsuite. Make a must in RA2 and RC2
helm_chart_published		ra2. app. 011	must	should	
helm_chart_valid		ra2. app. 012	must	should	
helm_deploy					
rollback					
rolling_update		ra2. app. 013	must	must	
rolling_version_change					
rolling_downgrade		ra2. app. 014	must	must	
cni_compatibility		ra2. app. 015	must	must	
alpha_k8s_apis		ra2. app. 016	must (not)	must (not)	
reasonable_image_size		ra2. app. 039	should (not)	should (not)	
reasonable_startup_time		ra2. app. 040	should (not)	should (not)	
single_process_type	essential		missing	misssi ng	It is unclear if this is a realistic requirement. There is an ongoing discussion in CNF Testsuite about this. I propose to leave this out until this is clarified.
service_discovery					
shared_database					
specialized_init_systems					
node_drain	essential	ra2. app. 017	must (not)	must (not)	
volume_hostpath_not_found					
no_local_volume_configuration		ra2. app. 025	must (not)	must (not)	
elastic_volumes					

database_persistence					
pod_network_latency		ra2. app. 018	must (not)	must (not)	
disk_fill					
pod_delete		ra2. app. 019	must (not)	must (not)	
pod_memory_hog		ra2. app. 020	must (not)	must (not)	
pod_io_stress		ra2. app. 021	must (not)	must (not)	
pod_network_corruption		ra2. app. 022	must (not)	must (not)	
pod_network_duplication		ra2. app. 023	must (not)	must (not)	
pod_dns_errors		ra2. app. 024	must (not)	must (not)	
liveness	essential	ra2. app. 026	must	must	
readiness	essential	ra2. app. 027	must	must	
log_output	essential	ra2. app. 046	should must (3352)	missing	Change it to must in RA2, add to RC2
prometheus_traffic					
routed_logs					
open_metrics					
tracing					
container_sock_mounts	essential	ra2. app. 028	must (not)	must (not)	Add reference to CNF Testbed to RA2
privileged_containers	essential	ra2. app. 041	should must (3352)	should (not)	Change it to must RA2 and RC2.
external_ips					
non_root_user		ra2. app. 042	should	should (not)	Change it to must RA2 and RC2.
privilege_escalation		ra2. app. 043	should	should (not)	
symlink_file_system					
selinux_options	essential	ra2. app. 048	must	missing	Add to RC2
sysctls					
application_credentials		ra2. app. 029	must (not)	must (not)	
host_network		ra2. app. 030	must (not)	must (not)	

service_account_mapping					
ingress_egress_blocked					
insecure_capabilities					
non_root_containers	essential	ra2. app. 044	should must (3352)	should	Change to must in RA2, add to RC2
host_pid_ipc_privileges		ra2. app. 031	must (not)	must (not)	
linux_hardening					
resource_policies	essential	ra2. app. 032	must	must (not)	
immutable_file_systems		ra2. app. 033	must	must (not)	
hostpath_mounts	essential	ra2. app. 007	should (not)	should	Change to must in RA2, add to RC2
default_namespace					
latest_tag	essential	ra2. app. 049 ra2. app. 034	should (not) must (not)	034: must	remove ra2.app.049
required_labels		ra2. app. 045	should	should	
versioned_tag					
nodeport_not_used		ra2. app. 036	must (not)	must (not)	
hostport_not_used	essential	ra2. app. 047	should (not) must (3352)	missing	Make it must in RA2, add to RC2
hardcoded_ip_addresses_in_k8s_runtime_configuration	essential	ra2. app. 035	must (not)	must (not)	
secrets_used					
immutable_configmap		ra2. app. 037	must	must	
		ra2. app. 034	must		
		ra2. app. 038	should	should	
		ra2. app. 001	??? remove (3352)	must	It is not really clear what this requirement is and it is not tested in CNF Testbed I propose to remove this.
		ra2. app. 002	??? remove (3352)	must	It is not clear what is the requirement here. Is this about host mounts? This is not tested by CNF Testbed I propose to remove this
		ra2. app. 003	??? remove (3352)	must	It is not clear what is the requirement here. This is not tested by CNF Testbed I propose to remove this
		ra2. app. 004	??? remove (3352)	must	It is not clear what is the requirement here. Kubernetes sets the pod name by default. This is not tested by CNF Testbed I propose to remove this.

		ra2. app. 005	??? remove (3352)	must	It is not really clear what this requirement is and it is not tested in CNF Testbed I propose to remove this.
		ra2. app. 006	must	must	
		ra2. app. 007	should (not)	must	
		ra2. app. 008	must (not)	must (not)	
		ra2. app. 009	must	must	
		ra2. app. 010	must	must	This in a littlebit of contradiction with ra2.app.016 I propose to modify it to a should.