

Ceph Ansible vs Rook

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Overview

This document shows the comparison of the Ansible and the Rook deployment for Ceph. Each command has one section for the full output and one shows the difference only.

The 2. level headlines are the commands that were executed to get the information in the tables below. In the tables below in the headings the prefix A means Ansible and R means Rook.

Location of the settings

Links listed here will point to the locations where settings are made for the osism/ceph-ansible setup.

- [mgr/dashboard](#)
- [auth_allow_insecure_global_id_reclaim](#)
- [cluster_network](#)
- [ceph_osd_pool_default_crush_rule](#) and [task](#)
- [mon_host](#)
- [public_network](#)
- [setgroup](#)
- [setuser](#)

ceph -s (difference only)

Cluster

cluster	ceph-ansible/osism	rook
id	11111111-1111-1111-1111-111111111111	cb4de109-3c6e-4916-8cfc-725de573a56e
health	HEALTH_OK	HEALTH_OK

Services

services	ceph-ansible/osism	rook
mon	3 daemons, quorum testbed-node-0,testbed-node-1,testbed-node-2 (age 6d)	3 daemons, quorum a,b,c (age 46h)
mgr	testbed-node-0(active, since 6d), standbys: testbed-node-1, testbed-node-2	a(active, since 46h), standbys: b
mds	1/1 daemons up, 2 standby	
osd	6 osds: 6 up (since 6d), 6 in (since 6d)	6 osds: 6 up (since 46h), 6 in (since 46h)
rgw	3 daemons active (3 hosts, 1 zones)	

ceph -s (complete)

Cluster

cluster	ceph-ansible/osism	rook
id	11111111-1111-1111-1111-111111111111	cb4de109-3c6e-4916-8cfc-725de573a56e
health	HEALTH_OK	HEALTH_OK

Services

services	ceph-ansible/osism	rook
mon	3 daemons, quorum testbed-node-0,testbed-node-1,testbed-node-2 (age 6d)	3 daemons, quorum a,b,c (age 46h)
mgr	testbed-node-0(active, since 6d), standbys: testbed-node-1, testbed-node-2	a(active, since 46h), standbys: b
mds	1/1 daemons up, 2 standby	
osd	6 osds: 6 up (since 6d), 6 in (since 6d)	6 osds: 6 up (since 46h), 6 in (since 46h)
rgw	3 daemons active (3 hosts, 1 zones)	

ceph config dump (difference only)

WHO	MASK	LEVEL	OPTION	A VALUE	A RO	R VALUE	R RO
global		advanced	cluster_network			192.168.16.0/20	*
global		basic	log_to_file			true	
global		advanced	mon_allow_pool_delete			true	
global		advanced	mon_allow_pool_size_one			true	
global		advanced	mon_cluster_log_file				
global		basic	ms_client_mode			secure	*
global		basic	ms_cluster_mode			secure	*
global		advanced	ms_osd_compress_mode			force	
global		basic	ms_service_mode			secure	*
global		advanced	public_network			192.168.16.0/20	*
global		advanced	rbd_default_map_options			ms_mode=secure	*
mon		advanced	auth_allow_insecure_global_id_reclaim			false	
mgr		advanced	mgr/balancer/mode			upmap	
mgr		advanced	mgr/dashboard/ PROMETHEUS_API_SSL_VERIFY			false	*
mgr		advanced	mgr/dashboard/ RGW_API_ACCESS_KEY			QS5ENJ9SNPKH41FCSPSX	*
mgr		advanced	mgr/dashboard/ RGW_API_SECRET_KEY			K24kZDv96OUHWzxeiS0oKeZtenJKFVAkuot1pp8g	*
mgr		advanced	mgr/dashboard/server_addr	0.0.0.0	*		
mgr		advanced	mgr/dashboard/server_port	7000	*	8443	*
mgr		advanced	mgr/dashboard/ssl	false	*		

WHO	MASK	LEVEL	OPTION	A VALUE	A RO	R VALUE	R RO
mgr		advanced	mgr/dashboard/standby_behaviour	redirect	*		
mgr		advanced	mgr/dashboard/standby_error_status_code	503	*		
mgr		advanced	mgr/prometheus/rbd_stats_pools				*
mds.cephfs-a		basic	mds_join_fs			cephfs	
mds.cephfs-b		basic	mds_join_fs			cephfs	
mds.cephfs-c		basic	mds_join_fs			cephfs	
mds.cephfs-d		basic	mds_join_fs			cephfs	
client.rgw.rgw.a		advanced	rgw_enable_usage_log			true	
client.rgw.rgw.a		advanced	rgw_log_nonexistent_bucket			true	
client.rgw.rgw.a		advanced	rgw_log_object_name_utc			true	
client.rgw.rgw.a		advanced	rgw_run_sync_thread			true	
client.rgw.rgw.a		advanced	rgw_zone			rgw	*
client.rgw.rgw.a		advanced	rgw_zonegroup			rgw	*

ceph config dump (complete)

WHO	MASK	LEVEL	OPTION	A VALUE	A RO	R VALUE	R RO
global		advanced	cluster_network			192.168.16.0/20	*
global		basic	log_to_file			true	
global		advanced	mon_allow_pool_delete			true	
global		advanced	mon_allow_pool_size_one			true	
global		advanced	mon_cluster_log_file				
global		basic	ms_client_mode			secure	*
global		basic	ms_cluster_mode			secure	*
global		advanced	ms_osd_compress_mode			force	
global		basic	ms_service_mode			secure	*
global		advanced	public_network			192.168.16.0/20	*
global		advanced	rbd_default_map_options			ms_mode=secure	*
mon		advanced	auth_allow_insecure_global_id_reclaim			false	
mgr		advanced	mgr/balancer/mode			upmap	
mgr		advanced	mgr/dashboard/ PROMETHEUS_API_SSL_VERIFY			false	*
mgr		advanced	mgr/dashboard/RGW_API_ACCESS_KEY			QS5ENJ9SNPKH41FCSPSX	*
mgr		advanced	mgr/dashboard/RGW_API_SECRET_KEY			K24kZDv96OUHWzxeiS0oKeZtenJKFVAkuot1pp8g	*
mgr		advanced	mgr/dashboard/server_addr	0.0.0.0	*		
mgr		advanced	mgr/dashboard/server_port	7000	*	8443	*
mgr		advanced	mgr/dashboard/ssl	false	*		

WHO	MASK	LEVEL	OPTION	A VALUE	A RO	R VALUE	R RO
mgr		advanced	mgr/dashboard/standby_behaviour	redirect	*		
mgr		advanced	mgr/dashboard/standby_error_status_code	503	*		
mgr		advanced	mgr/prometheus/rbd_stats_pools				*
mds.cephfs-a		basic	mds_join_fs			cephfs	
mds.cephfs-b		basic	mds_join_fs			cephfs	
mds.cephfs-c		basic	mds_join_fs			cephfs	
mds.cephfs-d		basic	mds_join_fs			cephfs	
client.rgw.rgw.a		advanced	rgw_enable_usage_log			true	
client.rgw.rgw.a		advanced	rgw_log_nonexistent_bucket			true	
client.rgw.rgw.a		advanced	rgw_log_object_name_utc			true	
client.rgw.rgw.a		advanced	rgw_run_sync_thread			true	
client.rgw.rgw.a		advanced	rgw_zone			rgw	*
client.rgw.rgw.a		advanced	rgw_zonegroup			rgw	*

ceph config show mon.xxx (difference only)

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
auth_allow_insecure_global_id_reclaim	false	file			false	mon		
cluster_network	192.168.16.0/20	file				default		mon
err_to_stderr	true	cmdline			true	default		
keyring	\$mon_data/keyring	default			/etc/ceph/keyring-store/keyring	override	default[\$mon_data/keyring]	
log_to_file	false	default			true	mon	default[false]	
mon_allow_pool_delete	true	file			true	mon		
mon_allow_pool_size_one					true	mon		
mon_cluster_log_file						mon		
mon_data	/var/lib/ceph/mon/ceph-testbed-node-0	cmdline						
mon_host	[v2:192.168.16.10:3300,v1:192.168.16.10:6789], [v2:192.168.16.11:3300,v1:192.168.16.11:6789], [v2:192.168.16.12:3300,v1:192.168.16.12:6789]	file			[v2:192.168.16.12:3300]	override		
mon_initial_members	testbed-node-0,testbed-node-1,testbed-node-2	file			a	cmdline		
ms_client_mode					secure	mon		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
ms_cluster_mode					secure	mon		
ms_osd_compress_mode					force	mon		
ms_service_mode					secure	mon		
osd_pool_default_crush_rule	-1	file						
osd_pool_default_min_size	0	file						
osd_pool_default_size	2	file						
public_addr	v2:192.168.16.10:0/0	cmdline			v2:192.168.16.12:0/0	cmdline		
public_network	192.168.16.0/20	file				default		mon
rbid_default_map_options						default		mon
setuser_match_path					/var/lib/ceph/mon/ceph-a/store.db	cmdline		

ceph config show mon.xxx (complete)

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
auth_allow_insecure_global_id_reclaim	false	file			false	mon		
cluster_network	192.168.16.0/20	file				default		mon
daemonize	false	override			false	override		
err_to_stderr	true	cmdline			true	default		
keyring	\$mon_data/keyring	default			/etc/ceph/keyring-store/keyring	override	default[\$mon_data/keyring]	
leveldb_block_size	65536	default			65536	default		
leveldb_cache_size	536870912	default			536870912	default		
leveldb_compression	false	default			false	default		
leveldb_log		default				default		
leveldb_write_buffer_size	33554432	default			33554432	default		
log_stderr_prefix	debug	default			debug	default		
log_to_file	false	default			true	mon	default[false]	
log_to_stderr	true	default			true	default		
mon_allow_pool_delete	true	file			true	mon		
mon_allow_pool_size_one					true	mon		
mon_cluster_log_file						mon		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
mon_cluster_log_to_file	false	default			false	default		
mon_cluster_log_to_stderr	true	default			true	default		
mon_data	/var/lib/ceph/mon/ceph-testbed-node-0	cmdline						
mon_host	[v2:192.168.16.10:3300,v1:192.168.16.10:6789], [v2:192.168.16.11:3300,v1:192.168.16.11:6789], [v2:192.168.16.12:3300,v1:192.168.16.12:6789]	file			[v2:192.168.16.12:3300]	override		
mon_initial_members	testbed-node-0,testbed-node-1,testbed-node-2	file			a	cmdline		
ms_client_mode					secure	mon		
ms_cluster_mode					secure	mon		
ms_osd_compress_mode					force	mon		
ms_service_mode					secure	mon		
no_config_file	false	override			false	override		
osd_pool_default_crush_rule	-1	file						
osd_pool_default_min_size	0	file						
osd_pool_default_size	2	file						
public_addr	v2:192.168.16.10:0/0	cmdline			v2:192.168.16.12:	cmdline		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
					0/0			
public_network	192.168.16.0/20	file				default		mon
rbd_default_features	61	default			61	default		
rbd_default_map_options						default		mon
rbd_qos_exclude_ops	0	default			0	default		
setgroup	ceph	cmdline			ceph	cmdline		
setuser	ceph	cmdline			ceph	cmdline		
setuser_match_path					/var/lib/ceph/ mon/ceph-a/ store.db	cmdline		

ceph config show mgr.xxx (difference only)

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
auth_allow_insecure_global_id_reclaim	false	file						
cluster_network	192.168.16.0/20	file			192.168.16.0/20	mon		
err_to_stderr	true	cmdline			true	default		
keyring	\$mgr_data/keyring	default			/etc/ceph/keyring-store/keyring	override	default[\$mgr_data/keyring]	
log_stderr_prefix					debug	default		
log_to_file	false	default			true	mon	default[false]	
mon_allow_pool_delete					true	mon		
mon_allow_pool_size_one					true	mon		
mon_cluster_log_file						mon		
mon_cluster_log_to_file					false	default		
mon_cluster_log_to_stderr					true	default		
mon_host	[v2:192.168.16.10:3300,v1:192.168.16.10:6789], [v2:192.168.16.11:3300,v1:192.168.16.11:6789], [v2:192.168.16.12:3300,v1:192.168.16.12:6789]	file			[v2:192.168.16.12:3300], , [v2:192.168.16.11:3300], [v2:192.168.16.10:3300]	override		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
mon_initial_members	testbed-node-0,testbed-node-1,testbed-node-2	file			a,b,c	cmdline		
ms_client_mode					secure	mon		
ms_cluster_mode					secure	mon		
ms_osd_compression_mode					force	mon		
ms_service_mode					secure	mon		
osd_pool_default_crush_rule	-1	file						
osd_pool_default_min_size	0	file						
osd_pool_default_size	2	file						
public_addr	v2:192.168.16.10:0/0	override			v2:192.168.16.12:0/0	override		
public_network	192.168.16.0/20	file			192.168.16.0/20	mon		
rbd_default_map_options					ms_mode=secure	mon		

ceph config show mgr.xxx (complete)

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
auth_allow_insecure_global_id_reclaim	false	file						
client_check_pool_perm	false	override			false	override		
client_mount_gid	0	override			0	override	(cmdline[0])	
client_mount_uid	0	override			0	override	(cmdline[0])	
client_quota	false	override			false	override		
cluster_network	192.168.16.0/20	file			192.168.16.0/20	mon		
daemonize	false	override			false	override		
err_to_stderr	true	cmdline			true	default		
keyring	\$mgr_data/keyring	default			/etc/ceph/keyring-store/keyring	override	default[\$mgr_data/keyring]	
log_stderr_prefix					debug	default		
log_to_file	false	default			true	mon	default[false]	
log_to_stderr	true	default			true	default		
mon_allow_pool_delete					true	mon		
mon_allow_pool_size_one					true	mon		
mon_cluster_log_file						mon		
mon_cluster_log_to_file					false	default		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
mon_cluster_log_to_stderr					true	default		
mon_host	[v2:192.168.16.10:3300,v1:192.168.16.10:6789], [v2:192.168.16.11:3300,v1:192.168.16.11:6789], [v2:192.168.16.12:3300,v1:192.168.16.12:6789]	file			[v2:192.168.16.12:3300], [v2:192.168.16.11:3300], [v2:192.168.16.10:3300]	override		
mon_initial_members	testbed-node-0,testbed-node-1,testbed-node-2	file			a,b,c	cmdline		
ms_client_mode					secure	mon		
ms_cluster_mode					secure	mon		
ms_osd_compress_mode					force	mon		
ms_service_mode					secure	mon		
no_config_file	false	override			false	override		
osd_pool_default_crush_rule	-1	file						
osd_pool_default_min_size	0	file						
osd_pool_default_size	2	file						
public_addr	v2:192.168.16.10:0/0	override			v2:192.168.16.12:0/0	override		
public_network	192.168.16.0/20	file			192.168.16.0/20	mon		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
rbd_default_features	61	default			61	default		
rbd_default_map_options					ms_mode=secure	mon		
rbd_qos_exclude_ops	0	default			0	default		
setgroup	ceph	cmdline			ceph	cmdline		
setuser	ceph	cmdline			ceph	cmdline		

ceph config show mds.xxx (difference only)

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
auth_allow_insecure_global_id_reclaim	false	file						
cluster_network	192.168.16.0/20	file			192.168.16.0/20	mon		
err_to_stderr	true	cmdline			true	default		
keyring	\$mds_data/keyring	default			/etc/ceph/keyring-store/keyring	override	default[\$mds_data/keyring]	
log_stderr_prefix					debug	default		
log_to_file	false	default			true	mon	default[false]	
mds_join_fs					cephfs	mon		
mon_allow_pool_delete					true	mon		
mon_allow_pool_size_one					true	mon		
mon_cluster_log_file						mon		
mon_cluster_log_to_file					false	default		
mon_cluster_log_to_stderr					true	default		
mon_host	[v2:192.168.16.10:3300,v1:192.168.16.10:6789],[v2:192.168.16.11:3300,v1:192.168.16.11:6789],	file			[v2:192.168.16.12:3300],[v2:192.168.16.11:3300],[v2:192.168.16.10:3300]	override		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
	[v2:192.168.16.12:3300,v1:192.168.16.12:6789]							
mon_initial_members	testbed-node-0,testbed-node-1,testbed-node-2	file			a,b,c	cmdline		
ms_client_mode					secure	mon		
ms_cluster_mode					secure	mon		
ms_osd_compression_mode					force	mon		
ms_service_mode					secure	mon		
osd_pool_default_crush_rule	-1	file						
osd_pool_default_min_size	0	file						
osd_pool_default_size	2	file						
public_network	192.168.16.0/20	file			192.168.16.0/20	mon		
rbd_default_map_options					ms_mode=secure	mon		

ceph config show mds.xxx (complete)

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
auth_allow_insecure_global_id_reclaim	false	file						
cluster_network	192.168.16.0/20	file			192.168.16.0/20	mon		
daemonize	false	override			false	override		
err_to_stderr	true	cmdline			true	default		
keyring	\$mds_data/keyring	default			/etc/ceph/keyring-store/ keyring	override	default[\$mds_data /keyring]	
log_stderr_prefix					debug	default		
log_to_file	false	default			true	mon	default[false]	
log_to_stderr	true	default			true	default		
mds_join_fs					cephfs	mon		
mon_allow_pool_delete					true	mon		
mon_allow_pool_size_one					true	mon		
mon_cluster_log_file						mon		
mon_cluster_log_to_file					false	default		
mon_cluster_log_to_stderr					true	default		
mon_host	[v2:192.168.16.10:33	file			[v2:192.168.16.12:3300],	override		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
	00,v1:192.168.16.10:6789], [v2:192.168.16.11:3300,v1:192.168.16.11:6789], [v2:192.168.16.12:3300,v1:192.168.16.12:6789]				[v2:192.168.16.11:3300], [v2:192.168.16.10:3300]			
mon_initial_members	testbed-node-0,testbed-node-1,testbed-node-2	file			a,b,c	cmdline		
ms_client_mode					secure	mon		
ms_cluster_mode					secure	mon		
ms_osd_compress_mode					force	mon		
ms_service_mode					secure	mon		
no_config_file	false	override			false	override		
osd_pool_default_crush_rule	-1	file						
osd_pool_default_min_size	0	file						
osd_pool_default_size	2	file						
public_network	192.168.16.0/20	file			192.168.16.0/20	mon		
rbd_default_features	61	default			61	default		
rbd_default_map_options					ms_mode=secure	mon		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
rd_qos_exclude_ops	0	default			0	default		
setgroup	ceph	cmdline			ceph	cmdline		
setuser	ceph	cmdline			ceph	cmdline		

ceph config show osd.0 (difference only)

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
auth_allow_insecure_global_id_reclaim	false	file						
cluster_network	192.168.16.0/20	file			192.168.16.0/20	mon		
crush_location					root=defaulthost=testbed-node-0	cmdline		
log_stderr_prefix					debug	default		
log_to_file	false	default			true	mon	default[false]	
log_to_stderr	true	default			true	default		
mon_allow_pool_delete					true	mon		
mon_allow_pool_size_one					true	mon		
mon_cluster_log_file						mon		
mon_cluster_log_to_file					false	default		
mon_cluster_log_to_stderr					true	default		
mon_host	[v2:192.168.16.10:3300,v1:192.168.16.10:6789], [v2:192.168.16.11:3300,v1:192.168.16.11:6789], [v2:192.168.16.12:3300,v1:192.168.16.12:6789]	file			[v2:192.168.16.12:3300], [v2:192.168.16.11:3300], [v2:192.168.16.10:3300]	override		
mon_initial_members	testbed-node-0,testbed-node-	file						

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
	1,testbed-node-2							
ms_client_mode					secure	mon		
ms_cluster_mode					secure	mon		
ms_osd_compress_mode					force	mon		
ms_service_mode					secure	mon		
osd_memory_target	11775980339	file			26917057331	default		
osd_pool_default_crush_rule	-1	file						
osd_pool_default_min_size	0	file						
osd_pool_default_size	2	file						
public_network	192.168.16.0/20	file			192.168.16.0/20	mon		
rbd_default_map_options					ms_mode=secure	mon		

ceph config show osd.0 (complete)

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
auth_allow_insecure_global_id_reclaim	false	file						
cluster_network	192.168.16.0/20	file			192.168.16.0/20	mon		
crush_location					root=defaulthost=testbed-node-0	cmdline		
daemonize	false	override			false	override		
err_to_stderr	true	cmdline			true	default		
keyring	\$osd_data/keyring	default			\$osd_data/keyring	default		
leveldb_log		default				default		
log_stderr_prefix					debug	default		
log_to_file	false	default			true	mon	default[false]	
log_to_stderr	true	default			true	default		
mon_allow_pool_delete					true	mon		
mon_allow_pool_size_one					true	mon		
mon_cluster_log_file						mon		
mon_cluster_log_to_file					false	default		
mon_cluster_log_to_stderr					true	default		
mon_host	[v2:192.168.16.10:3300, v1:192.168.16.10:6789],	file			[v2:192.168.16.12:3300], [v2:192.168.16.11:3300],	override		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
	[v2:192.168.16.11:3300, v1:192.168.16.11:6789], [v2:192.168.16.12:3300, v1:192.168.16.12:6789]				[v2:192.168.16.10:3300]			
mon_initial_members	testbed-node-0,testbed-node-1,testbed-node-2	file						
ms_client_mode					secure	mon		
ms_cluster_mode					secure	mon		
ms_osd_compress_mode					force	mon		
ms_service_mode					secure	mon		
no_config_file	false	override			false	override		
osd_delete_sleep	0.000000	override			0.000000	override		
osd_delete_sleep_hdd	0.000000	override			0.000000	override		
osd_delete_sleep_hybrid	0.000000	override			0.000000	override		
osd_delete_sleep_ssd	0.000000	override			0.000000	override		
osd_max_backfills	1	default			1	default		
osd_mclock_scheduler_background_best_effort_lim	0.900000	default			0.900000	default		
osd_mclock_scheduler_background_best_effort_res	0.000000	default			0.000000	default		
osd_mclock_scheduler_background_best_effort	1	default			1	default		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
effort_wgt								
osd_mclock_scheduler_background_recovery_lim	0.000000	default			0.000000	default		
osd_mclock_scheduler_background_recovery_res	0.500000	default			0.500000	default		
osd_mclock_scheduler_background_recovery_wgt	1	default			1	default		
osd_mclock_scheduler_client_lim	0.000000	default			0.000000	default		
osd_mclock_scheduler_client_res	0.500000	default			0.500000	default		
osd_mclock_scheduler_client_wgt	1	default			1	default		
osd_memory_target	11775980339	file			26917057331	default		
osd_pool_default_crush_rule	-1	file						
osd_pool_default_min_size	0	file						
osd_pool_default_size	2	file						
osd_recovery_max_active	0	default			0	default		
osd_recovery_max_active_hdd	3	default			3	default		

NAME	A VALUE	A SOURCE	A OVERRIDES	A IGNORES	R VALUE	R SOURCE	R OVERRIDES	R IGNORES
osd_recovery_max_active_ssd	10	default			10	default		
osd_recovery_sleep	0.000000	override			0.000000	override		
osd_recovery_sleep_hdd	0.000000	override			0.000000	override		
osd_recovery_sleep_hybrid	0.000000	override			0.000000	override		
osd_recovery_sleep_ssd	0.000000	override			0.000000	override		
osd_scrub_sleep	0.000000	override			0.000000	override		
osd_snap_trim_sleep	0.000000	override			0.000000	override		
osd_snap_trim_sleep_hdd	0.000000	override			0.000000	override		
osd_snap_trim_sleep_hybrid	0.000000	override			0.000000	override		
osd_snap_trim_sleep_ssd	0.000000	override			0.000000	override		
public_network	192.168.16.0/20	file			192.168.16.0/20	mon		
rbd_default_features	61	default			61	default		
rbd_default_map_options					ms_mode=secure	mon		
rbd_qos_exclude_ops	0	default			0	default		
setgroup	ceph	cmdline			ceph	cmdline		
setuser	ceph	cmdline			ceph	cmdline		

radosgw-admin --show-config (difference only)

NAME	A VALUE	R VALUE
erasure_code_dir	/usr/lib/ceph/erasure-code	/usr/lib64/ceph/erasure-code
host	e9b083485367	rook-ceph-tools-d894ddcfc-gfltt
keyring	/etc/ceph/ceph.client.admin.keyring,/etc/ceph/ceph.keyring,/etc/ceph/keyring,/etc/ceph/keyring.bin	/etc/ceph/keyring
mgr_disabled_modules	diskprediction_local	
mon_host	192.168.16.10,192.168.16.11,192.168.16.12	192.168.16.12:6789,192.168.16.11:6789,192.168.16.10:6789
osd_class_dir	/usr/lib/rados-classes	/usr/lib64/rados-classes
plugin_dir	/usr/lib/ceph	/usr/lib64/ceph

radosgw-admin --show-config (complete)

NAME	A VALUE	R VALUE
name	client.admin	client.admin
cluster	ceph	ceph
admin_socket		
admin_socket_mode		
auth_allow_insecure_global_id_reclaim	true	true
auth_client_required	cephx, none	cephx, none
auth_cluster_required	cephx	cephx
auth_debug	false	false
auth_expose_insecure_global_id_reclaim	true	true
auth_mon_ticket_ttl	259200.000000	259200.000000
auth_service_required	cephx	cephx
auth_service_ticket_ttl	3600.000000	3600.000000
auth_supported		
bdev_aio	true	true
bdev_aio_max_queue_depth	1024	1024
bdev_aio_poll_ms	250	250
bdev_aio_reap_max	16	16
bdev_async_discard	false	false
bdev_block_size	4096	4096
bdev_debug_aio	false	false
bdev_debug_aio_log_age	5.000000	5.000000
bdev_debug_aio_suicide_timeout	60.000000	60.000000
bdev_debug_inflight_ios	false	false
bdev_enable_discard	false	false
bdev_flock_retry	3	3
bdev_flock_retry_interval	0.100000	0.100000

NAME	A VALUE	R VALUE
bdev_inject_crash	0	0
bdev_inject_crash_flush_delay	2	2
bdev_ioring	false	false
bdev_ioring_hipri	false	false
bdev_ioring_sqthread_poll	false	false
bdev_nvme_unbind_from_kernel	false	false
bdev_read_buffer_alignment	4096	4096
bdev_read_preallocated_huge_buffers		
bdev_type		
bluefs_alloc_size	1048576	1048576
bluefs_allocator	hybrid	hybrid
bluefs_buffered_io	true	true
bluefs_check_for_zeros	false	false
bluefs_check_volume_selector_often	false	false
bluefs_check_volume_selector_on_umount	false	false
bluefs_compact_log_sync	false	false
bluefs_failed_shared_alloc_cooldown	600.000000	600.000000
bluefs_log_compact_min_ratio	5.000000	5.000000
bluefs_log_compact_min_size	16777216	16777216
bluefs_log_replay_check_allocations	true	true
bluefs_max_log_runway	4194304	4194304
bluefs_max_prefetch	1048576	1048576
bluefs_min_flush_size	524288	524288
bluefs_min_log_runway	1048576	1048576
bluefs_replay_recovery	false	false
bluefs_replay_recovery_disable_compact	false	false
bluefs_shared_alloc_size	65536	65536
bluefs_sync_write	false	false
bluestore_2q_cache_kin_ratio	0.500000	0.500000

NAME	A VALUE	R VALUE
bluestore_2q_cache_kout_ratio	0.500000	0.500000
bluestore_alloc_stats_dump_interval	86400.000000	86400.000000
bluestore_allocation_from_file	true	true
bluestore_allocator	hybrid	hybrid
bluestore_avl_alloc_bf_free_pct	4	4
bluestore_avl_alloc_bf_threshold	131072	131072
bluestore_avl_alloc_ff_max_search_bytes	16777216	16777216
bluestore_avl_alloc_ff_max_search_count	100	100
bluestore_bitmapallocator_blocks_per_zone	1024	1024
bluestore_bitmapallocator_span_size	1024	1024
bluestore_blobid_prealloc	10240	10240
bluestore_block_create	true	true
bluestore_block_db_create	false	false
bluestore_block_db_path		
bluestore_block_db_size	0	0
bluestore_block_path		
bluestore_block_preallocate_file	false	false
bluestore_block_size	107374182400	107374182400
bluestore_block_wal_create	false	false
bluestore_block_wal_path		
bluestore_block_wal_size	100663296	100663296
bluestore_bluefs	true	true
bluestore_bluefs_alloc_failure_dump_interval	0.000000	0.000000
bluestore_bluefs_env_mirror	false	false
bluestore_bluefs_max_free	10737418240	10737418240
bluestore_cache_age_bin_interval	1.000000	1.000000
bluestore_cache_age_bins_data	1 2 6 24 120 720 0 0 0 0	1 2 6 24 120 720 0 0 0 0
bluestore_cache_age_bins_kv	1 2 6 24 120 720 0 0 0 0	1 2 6 24 120 720 0 0 0 0
bluestore_cache_age_bins_kv_onode	0 0 0 0 0 0 0 0 720	0 0 0 0 0 0 0 0 720

NAME	A VALUE	R VALUE
bluestore_cache_age_bins_meta	1 2 6 24 120 720 0 0 0 0	1 2 6 24 120 720 0 0 0 0
bluestore_cache_autotune	true	true
bluestore_cache_autotune_interval	5.000000	5.000000
bluestore_cache_kv_onode_ratio	0.040000	0.040000
bluestore_cache_kv_ratio	0.450000	0.450000
bluestore_cache_meta_ratio	0.450000	0.450000
bluestore_cache_size	0	0
bluestore_cache_size_hdd	1073741824	1073741824
bluestore_cache_size_ssd	3221225472	3221225472
bluestore_cache_trim_interval	0.050000	0.050000
bluestore_cache_trim_max_skip_pinned	1000	1000
bluestore_cache_type	2q	2q
bluestore_cleaner_sleep_interval	5.000000	5.000000
bluestore_clone_cow	true	true
bluestore_compression_algorithm	snappy	snappy
bluestore_compression_max_blob_size	0	0
bluestore_compression_max_blob_size_hdd	65536	65536
bluestore_compression_max_blob_size_ssd	65536	65536
bluestore_compression_min_blob_size	0	0
bluestore_compression_min_blob_size_hdd	8192	8192
bluestore_compression_min_blob_size_ssd	65536	65536
bluestore_compression_mode	none	none
bluestore_compression_required_ratio	0.875000	0.875000
bluestore_csum_type	crc32c	crc32c
bluestore_debug_enforce_settings	default	default
bluestore_debug_freelist	false	false
bluestore_debug_fsck_abort	false	false
bluestore_debug_inject_allocation_from_file_failure	0.000000	0.000000
bluestore_debug_inject_bug21040	false	false

NAME	A VALUE	R VALUE
bluestore_debug_inject_csum_err_probability	0.000000	0.000000
bluestore_debug_inject_read_err	false	false
bluestore_debug_legacy_omap	false	false
bluestore_debug_no_reuse_blocks	false	false
bluestore_debug_omit_block_device_write	false	false
bluestore_debug_omit_kv_commit	false	false
bluestore_debug_permit_any_bdev_label	false	false
bluestore_debug_prefill	0.000000	0.000000
bluestore_debug_prefragment_max	1048576	1048576
bluestore_debug_random_read_err	0.000000	0.000000
bluestore_debug_randomize_serial_transaction	0	0
bluestore_debug_small_allocations	0	0
bluestore_debug_too_many_blobs_threshold	24576	24576
bluestore_default_buffered_read	true	true
bluestore_default_buffered_write	false	false
bluestore_deferred_batch_ops	0	0
bluestore_deferred_batch_ops_hdd	64	64
bluestore_deferred_batch_ops_ssd	16	16
bluestore_extent_map_inline_shard_prealloc_size	256	256
bluestore_extent_map_shard_max_size	1200	1200
bluestore_extent_map_shard_min_size	150	150
bluestore_extent_map_shard_target_size	500	500
bluestore_extent_map_shard_target_size_slop	0.200000	0.200000
bluestore_fail_eio	false	false
bluestore_freelist_blocks_per_key	128	128
bluestore_fsck_error_on_no_per_pg_omap	false	false
bluestore_fsck_error_on_no_per_pool_omap	false	false
bluestore_fsck_error_on_no_per_pool_stats	false	false
bluestore_fsck_on_mkfs	true	true

NAME	A VALUE	R VALUE
bluestore_fsck_on_mkfs_deep	false	false
bluestore_fsck_on_mount	false	false
bluestore_fsck_on_mount_deep	false	false
bluestore_fsck_on_umount	false	false
bluestore_fsck_on_umount_deep	false	false
bluestore_fsck_quick_fix_on_mount	false	false
bluestore_fsck_quick_fix_threads	2	2
bluestore_fsck_read_bytes_cap	67108864	67108864
bluestore_fsck_shared_blob_tracker_size	0.031250	0.031250
bluestore_gc_enable_blob_threshold	0	0
bluestore_gc_enable_total_threshold	0	0
bluestore_hybrid_alloc_mem_cap	67108864	67108864
bluestore_ignore_data_csum	false	false
bluestore_kv_sync_util_logging_s	10.000000	10.000000
bluestore_kvbackend	rocksdb	rocksdb
bluestore_log_collection_list_age	60.000000	60.000000
bluestore_log_omap_iterator_age	5.000000	5.000000
bluestore_log_op_age	5.000000	5.000000
bluestore_max_alloc_size	0	0
bluestore_max_blob_size	0	0
bluestore_max_blob_size_hdd	65536	65536
bluestore_max_blob_size_ssd	65536	65536
bluestore_max_defer_interval	3.000000	3.000000
bluestore_max_deferred_txc	32	32
bluestore_min_alloc_size	0	0
bluestore_min_alloc_size_hdd	4096	4096
bluestore_min_alloc_size_ssd	4096	4096
bluestore_nid_prealloc	1024	1024
bluestore_prefer_deferred_size	0	0

NAME	A VALUE	R VALUE
bluestore_prefer_deferred_size_hdd	65536	65536
bluestore_prefer_deferred_size_ssd	0	0
bluestore_qfscck_on_mount	true	true
bluestore_retry_disk_reads	3	3
bluestore_rocksdb_cf	true	true
bluestore_rocksdb_cfs	m(3) p(3,0-12) O(3,0-13)=block_cache={type=binned_lru} L P	m(3) p(3,0-12) O(3,0-13)=block_cache={type=binned_lru} L P
bluestore_rocksdb_options	compression=kNoCompression,max_write_buffer_number=4,min_write_buffer_number_to_merge=1,recycle_log_file_num=4,write_buffer_size=268435456,writable_file_max_buffer_size=0,compaction_readahead_size=2097152,max_background_compactions=2,max_total_wal_size=1073741824	compression=kNoCompression,max_write_buffer_number=4,min_write_buffer_number_to_merge=1,recycle_log_file_num=4,write_buffer_size=268435456,writable_file_max_buffer_size=0,compaction_readahead_size=2097152,max_background_compactions=2,max_total_wal_size=1073741824
bluestore_rocksdb_options_annex		
bluestore_spdk_coremask	0x1	0x1
bluestore_spdk_io_sleep	5	5
bluestore_spdk_max_io_completion	0	0
bluestore_spdk_mem	512	512
bluestore_sync_submit_transaction	false	false
bluestore_throttle_bytes	67108864	67108864
bluestore_throttle_cost_per_io	0	0
bluestore_throttle_cost_per_io_hdd	670000	670000
bluestore_throttle_cost_per_io_ssd	4000	4000
bluestore_throttle_deferred_bytes	134217728	134217728
bluestore_throttle_trace_rate	0.000000	0.000000
bluestore_tracing	false	false
bluestore_use_optimal_io_size_for_min_alloc_size	false	false
bluestore_volume_selection_policy	use_some_extra	use_some_extra
bluestore_volume_selection_reserved	0	0
bluestore_volume_selection_reserved_factor	2.000000	2.000000
bluestore_warn_on_bluefs_spillover	true	true
bluestore_warn_on_legacy_stats	true	true
bluestore_warn_on_no_per_pg_omap	false	false

NAME	A VALUE	R VALUE
bluestore_warn_on_no_per_pool_omap	true	true
bluestore_warn_on_spurious_read_errors	true	true
bluestore_zero_block_detection	false	false
cephadm_path	/usr/sbin/cephadm	/usr/sbin/cephadm
cephfs_mirror_action_update_interval	2	2
cephfs_mirror_directory_scan_interval	10	10
cephfs_mirror_max_concurrent_directory_syncs	3	3
cephfs_mirror_max_consecutive_failures_per_directory	10	10
cephfs_mirror_max_snapshot_sync_per_cycle	3	3
cephfs_mirror_mount_timeout	10	10
cephfs_mirror_restart_mirror_on_blocklist_interval	30	30
cephfs_mirror_restart_mirror_on_failure_interval	20	20
cephfs_mirror_retry_failed_directories_interval	60	60
cephsqlite_blocklist_dead_locker	true	true
cephsqlite_lock_renewal_interval	2000	2000
cephsqlite_lock_renewal_timeout	30000	30000
cephx_cluster_require_signatures	false	false
cephx_cluster_require_version	2	2
cephx_require_signatures	false	false
cephx_require_version	2	2
cephx_service_require_signatures	false	false
cephx_service_require_version	2	2
cephx_sign_messages	true	true
chdir		
client_acl_type		
client_asio_thread_count	2	2
client_cache_mid	0.750000	0.750000
client_cache_size	16384	16384
client_caps_release_delay	5	5

NAME	A VALUE	R VALUE
client_check_pool_perm	true	true
client_collect_and_send_global_metrics	false	false
client_debug_force_sync_read	false	false
client_debug_getattr_caps	false	false
client_debug_inject_tick_delay	0	0
client_die_on_failed_dentry_invalidate	true	true
client_die_on_failed_remount	false	false
client_dirsize_rbytes	true	true
client_force_lazyio	false	false
client_fs		
client_inject_fixed_oldest_tid	false	false
client_inject_release_failure	false	false
client_max_inline_size	4096	4096
client_max_retries_on_remount_failure	5	5
client_mds_namespace		
client_metadata		
client_mount_gid	-1	-1
client_mount_timeout	300	300
client_mount_uid	-1	-1
client_mountpoint	/	/
client_notify_timeout	10	10
client_oc	true	true
client_oc_max_dirty	104857600	104857600
client_oc_max_dirty_age	5.000000	5.000000
client_oc_max_objects	1000	1000
client_oc_size	209715200	209715200
client_oc_target_dirty	8388608	8388608
client_permissions	true	true
client_quota	true	true

NAME	A VALUE	R VALUE
client_quota_df	true	true
client_readahead_max_bytes	0	0
client_readahead_max_periods	4	4
client_readahead_min	131072	131072
client_reconnect_stale	false	false
client_shutdown_timeout	30	30
client_snapdir	.snap	.snap
client_tick_interval	1	1
client_trace		
client_try_dentry_invalidate	false	false
client_use_faked_inos	false	false
client_use_random_mds	false	false
clog_to_graylog	false	false
clog_to_graylog_host	127.0.0.1	127.0.0.1
clog_to_graylog_port	12201	12201
clog_to_monitors	default=true	default=true
clog_to_syslog	false	false
clog_to_syslog_facility	default=daemon audit=local0	default=daemon audit=local0
clog_to_syslog_level	info	info
cluster_addr	-	-
cluster_network		
cluster_network_interface		
compressor_zlib_isal	false	false
compressor_zlib_level	5	5
compressor_zlib_winsize	-15	-15
compressor_zstd_level	1	1
container_image	docker.io/ceph/daemon-base:latest-master-devel	docker.io/ceph/daemon-base:latest-master-devel
crash_dir	/var/lib/ceph/crash	/var/lib/ceph/crash
crimson_alien_op_num_threads	6	6

NAME	A VALUE	R VALUE
crimson_alien_thread_cpu_cores		
crimson_osd_obc_lru_size	10	10
crimson_osd_scheduler_concurrency	0	0
crush_location		
crush_location_hook		
crush_location_hook_timeout	10	10
daemonize	false	false
debug_alienstore	0/5	0/5
debug_allow_any_pool_priority	false	false
debug_asok	1/5	1/5
debug_asok_assert_abort	false	false
debug_asserts_on_shutdown	false	false
debug_auth	1/5	1/5
debug_bdev	1/3	1/3
debug_bluefs	1/5	1/5
debug_bluestore	1/5	1/5
debug_buffer	0/1	0/1
debug_ceph_exporter	1/5	1/5
debug_cephfs_mirror	0/5	0/5
debug_cephsqlite	0/5	0/5
debug_civetweb	1/10	1/10
debug_client	0/5	0/5
debug_compressor	1/5	1/5
debug_context	0/1	0/1
debug_crush	1/1	1/1
debug_crypto	1/5	1/5
debug_deliberately_leak_memory	false	false
debug_disable_randomized_ping	false	false
debug_dpdk	1/5	1/5

NAME	A VALUE	R VALUE
debug_eventtrace	1/5	1/5
debug_filer	0/1	0/1
debug_filestore	1/3	1/3
debug_finisher	1/1	1/1
debug_fuse	1/5	1/5
debug_heartbeat_testing_span	0	0
debug_heartbeatmap	1/5	1/5
debug_immutable_obj_cache	0/5	0/5
debug_javaclient	1/5	1/5
debug_journal	1/3	1/3
debug_journaler	0/5	0/5
debug_kstore	1/5	1/5
debug_leveldb	4/5	4/5
debug_lockdep	0/1	0/1
debug_mclock	1/5	1/5
debug_mds	1/5	1/5
debug_mds_balancer	1/5	1/5
debug_mds_locker	1/5	1/5
debug_mds_log	1/5	1/5
debug_mds_log_expire	1/5	1/5
debug_mds_migrator	1/5	1/5
debug_memdb	4/5	4/5
debug_mgr	2/5	2/5
debug_mgrc	1/5	1/5
debug_mon	1/5	1/5
debug_monc	0/10	0/10
debug_ms	0/0	0/0
debug_none	0/5	0/5
debug_objclass	0/5	0/5

NAME	A VALUE	R VALUE
debug_objectcacher	0/5	0/5
debug_objecter	0/1	0/1
debug_optracker	0/5	0/5
debug_osd	1/5	1/5
debug_paxos	1/5	1/5
debug_perfcounter	1/5	1/5
debug_prioritycache	1/5	1/5
debug_rados	0/5	0/5
debug_rbd	0/5	0/5
debug_rbd_mirror	0/5	0/5
debug_rbd_pwl	0/5	0/5
debug_rbd_replay	0/5	0/5
debug_refs	0/0	0/0
debug_reserver	1/1	1/1
debug_rgw	1/5	1/5
debug_rgw_datacache	1/5	1/5
debug_rgw_sync	1/5	1/5
debug_rocksdb	4/5	4/5
debug_seastore	0/5	0/5
debug_seastore_cache	0/5	0/5
debug_seastore_cleaner	0/5	0/5
debug_seastore_device	0/5	0/5
debug_seastore_journal	0/5	0/5
debug_seastore_lba	0/5	0/5
debug_seastore_odata	0/5	0/5
debug_seastore_omap	0/5	0/5
debug_seastore_onode	0/5	0/5
debug_seastore_tm	0/5	0/5
debug_striper	0/1	0/1

NAME	A VALUE	R VALUE
debug_test	0/5	0/5
debug_throttle	1/1	1/1
debug_timer	0/1	0/1
debug_tp	0/5	0/5
device_failure_prediction_mode	none	none
enable_experimental_unrecoverable_data_corrupting_features		
erasure_code_dir	/usr/lib/ceph/erasure-code	/usr/lib64/ceph/erasure-code
err_to_graylog	false	false
err_to_journald	false	false
err_to_stderr	false	false
err_to_syslog	false	false
event_tracing	false	false
exporter_addr	0.0.0.0	0.0.0.0
exporter_http_port	9926	9926
exporter_prio_limit	5	5
exporter_sock_dir	/var/run/ceph/	/var/run/ceph/
exporter_sort_metrics	true	true
exporter_stats_period	5	5
fake_stats_for_testing	0	0
fatal_signal_handlers	true	true
filer_max_purge_ops	10	10
filer_max_truncate_ops	128	128
filestore_apply_finisher_threads	1	1
filestore_blackhole	false	false
filestore_btrfs_clone_range	true	true
filestore_btrfs_snap	true	true
filestore_caller_concurrency	10	10
filestore_collect_device_partition_information	true	true

NAME	A VALUE	R VALUE
filestore_commit_timeout	600.000000	600.000000
filestore_debug_inject_read_err	false	false
filestore_debug_omap_check	false	false
filestore_debug_random_read_err	0.000000	0.000000
filestore_debug_verify_split	false	false
filestore_dump_file		
filestore_expected_throughput_bytes	209715200.000000	209715200.000000
filestore_expected_throughput_ops	200.000000	200.000000
filestore_fadvise	true	true
filestore_fail_eio	true	true
filestore_fd_cache_shards	16	16
filestore_fd_cache_size	128	128
filestore_fiemap	false	false
filestore_fiemap_threshold	4096	4096
filestore_fsync_flushes_journal_data	false	false
filestore_index_retry_probability	0.000000	0.000000
filestore_inject_stall	0	0
filestore_journal_parallel	false	false
filestore_journal_trailing	false	false
filestore_journal_writeahead	false	false
filestore_kill_at	0	0
filestore_max_alloc_hint_size	1048576	1048576
filestore_max_inline_xattr_size	0	0
filestore_max_inline_xattr_size_btrfs	2048	2048
filestore_max_inline_xattr_size_other	512	512
filestore_max_inline_xattr_size_xfs	65536	65536
filestore_max_inline_xattrs	0	0
filestore_max_inline_xattrs_btrfs	10	10
filestore_max_inline_xattrs_other	2	2

NAME	A VALUE	R VALUE
filestore_max_inline_xattrs_xfs	10	10
filestore_max_sync_interval	5.000000	5.000000
filestore_max_xattr_value_size	0	0
filestore_max_xattr_value_size_btrfs	65536	65536
filestore_max_xattr_value_size_other	1024	1024
filestore_max_xattr_value_size_xfs	65536	65536
filestore_merge_threshold	-10	-10
filestore_min_sync_interval	0.010000	0.010000
filestore_odsycn_write	false	false
filestore_omap_backend	rocksdb	rocksdb
filestore_omap_backend_path		
filestore_omap_header_cache_size	1024	1024
filestore_ondisk_finisher_threads	1	1
filestore_op_thread_suicide_timeout	180	180
filestore_op_thread_timeout	60	60
filestore_op_threads	2	2
filestore_punch_hole	false	false
filestore_queue_high_delay_multiple	0.000000	0.000000
filestore_queue_high_delay_multiple_bytes	0.000000	0.000000
filestore_queue_high_delay_multiple_ops	0.000000	0.000000
filestore_queue_high_threshold	0.900000	0.900000
filestore_queue_low_threshold	0.300000	0.300000
filestore_queue_max_bytes	104857600	104857600
filestore_queue_max_delay_multiple	0.000000	0.000000
filestore_queue_max_delay_multiple_bytes	0.000000	0.000000
filestore_queue_max_delay_multiple_ops	0.000000	0.000000
filestore_queue_max_ops	50	50
filestore_rocksdb_options	max_background_jobs=10,compaction_readahead_size=2097152,compression=kNoCompression	max_background_jobs=10,compaction_readahead_size=2097152,compression=kNoCompression
filestore_seek_data_hole	false	false

NAME	A VALUE	R VALUE
filestore_sloppy_crc	false	false
filestore_sloppy_crc_block_size	65536	65536
filestore_splice	false	false
filestore_split_multiple	2	2
filestore_split_rand_factor	20	20
filestore_update_to	1000	1000
filestore_wbthrottle_btrfs_bytes_hard_limit	419430400	419430400
filestore_wbthrottle_btrfs_bytes_start_flusher	41943040	41943040
filestore_wbthrottle_btrfs_inodes_hard_limit	5000	5000
filestore_wbthrottle_btrfs_inodes_start_flusher	500	500
filestore_wbthrottle_btrfs_ios_hard_limit	5000	5000
filestore_wbthrottle_btrfs_ios_start_flusher	500	500
filestore_wbthrottle_enable	true	true
filestore_wbthrottle_xfs_bytes_hard_limit	419430400	419430400
filestore_wbthrottle_xfs_bytes_start_flusher	41943040	41943040
filestore_wbthrottle_xfs_inodes_hard_limit	5000	5000
filestore_wbthrottle_xfs_inodes_start_flusher	500	500
filestore_wbthrottle_xfs_ios_hard_limit	5000	5000
filestore_wbthrottle_xfs_ios_start_flusher	500	500
filestore_xfs_extsize	false	false
filestore_zfs_snap	false	false
fio_dir	/tmp/fio	/tmp/fio
fsid	00000000-0000-0000-0000-000000000000	00000000-0000-0000-0000-000000000000
fuse_allow_other	true	true
fuse_atomic_o_trunc	true	true
fuse_big_writes	true	true
fuse_debug	false	false
fuse_default_permissions	false	false
fuse_disable_pagecache	false	false

NAME	A VALUE	R VALUE
fuse_max_write	0	0
fuse_multithreaded	true	true
fuse_require_active_mds	true	true
fuse_set_user_groups	true	true
fuse_splice_move	true	true
fuse_splice_read	true	true
fuse_splice_write	true	true
fuse_syncfs_on_mksnap	true	true
fuse_use_invalidate_cb	true	true
gss_ktab_client_file	/var/lib/ceph/client.admin/gss_client_client.admin.ktab	/var/lib/ceph/client.admin/gss_client_client.admin.ktab
gss_target_name	ceph	ceph
heartbeat_file		
heartbeat_inject_failure	0	0
heartbeat_interval	5	5
host	e9b083485367	rook-ceph-tools-d894ddcfc-gfltt
immutable_object_cache_client_dedicated_thread_num	2	2
immutable_object_cache_max_inflight_ops	128	128
immutable_object_cache_max_size	1073741824	1073741824
immutable_object_cache_path	/tmp/ceph_immutable_object_cache	/tmp/ceph_immutable_object_cache
immutable_object_cache_qos_bps_burst	0	0
immutable_object_cache_qos_bps_burst_seconds	1	1
immutable_object_cache_qos_bps_limit	0	0
immutable_object_cache_qos_iops_burst	0	0
immutable_object_cache_qos_iops_burst_seconds	1	1
immutable_object_cache_qos_iops_limit	0	0
immutable_object_cache_qos_schedule_tick_min	50	50
immutable_object_cache_sock	/var/run/ceph/immutable_object_cache_sock	/var/run/ceph/immutable_object_cache_sock
immutable_object_cache_watermark	0.900000	0.900000
inject_early_sigterm	false	false

NAME	A VALUE	R VALUE
jaeger_tracing_enable	false	false
journal_aid	true	true
journal_align_min_size	65536	65536
journal_block_align	true	true
journal_block_size	4096	4096
journal_dio	true	true
journal_discard	false	false
journal_force_aid	false	false
journal_ignore_corruption	false	false
journal_max_write_bytes	10485760	10485760
journal_max_write_entries	100	100
journal_replay_from	0	0
journal_throttle_high_multiple	0.000000	0.000000
journal_throttle_high_threshold	0.900000	0.900000
journal_throttle_low_threshold	0.600000	0.600000
journal_throttle_max_multiple	0.000000	0.000000
journal_write_header_frequency	0	0
journal_zero_on_create	false	false
journaler_prefetch_periods	10	10
journaler_prezero_periods	5	5
journaler_write_head_interval	15	15
key		
keyfile		
keyring	/etc/ceph/ceph.client.admin.keyring,/etc/ceph/ceph.keyring,/etc/ceph/keyring,/etc/ceph/keyring.bin	/etc/ceph/keyring
kstore_backend	rocksdb	rocksdb
kstore_default_stripe_size	65536	65536
kstore_fsck_on_mount	false	false
kstore_fsck_on_mount_deep	true	true

NAME	A VALUE	R VALUE
kstore_max_bytes	67108864	67108864
kstore_max_ops	512	512
kstore_nid_prealloc	1024	1024
kstore_onode_map_size	1024	1024
kstore_rocksdb_options	compression=kNoCompression	compression=kNoCompression
kstore_sync_submit_transaction	false	false
kstore_sync_transaction	false	false
leveldb_block_size	0	0
leveldb_bloom_size	0	0
leveldb_cache_size	134217728	134217728
leveldb_compact_on_mount	false	false
leveldb_compression	true	true
leveldb_log	/dev/null	/dev/null
leveldb_log_to_ceph_log	true	true
leveldb_max_open_files	0	0
leveldb_paranoid	false	false
leveldb_write_buffer_size	8388608	8388608
librados_thread_count	2	2
lockdep	false	false
lockdep_force_backtrace	false	false
log_coarse_timestamps	true	true
log_file		
log_flush_on_exit	false	false
log_graylog_host	127.0.0.1	127.0.0.1
log_graylog_port	12201	12201
log_max_new	1000	1000
log_max_recent	500	500
log_stderr_prefix		
log_stop_at_utilization	0.970000	0.970000

NAME	A VALUE	R VALUE
log_to_file	true	true
log_to_graylog	false	false
log_to_jourald	false	false
log_to_stderr	true	true
log_to_syslog	false	false
max_rotating_auth_attempts	10	10
mds_abort_on_newly_corrupt_dentry	true	true
mds_action_on_write_error	1	1
mds_alterate_name_max	8192	8192
mds_asio_thread_count	2	2
mds_bal_export_pin	true	true
mds_bal_fragment_dirs	true	true
mds_bal_fragment_fast_factor	1.500000	1.500000
mds_bal_fragment_interval	5	5
mds_bal_fragment_size_max	100000	100000
mds_bal_idle_threshold	0.000000	0.000000
mds_bal_interval	10	10
mds_bal_max	-1	-1
mds_bal_max_until	-1	-1
mds_bal_merge_size	50	50
mds_bal_midchunk	0.300000	0.300000
mds_bal_min_rebalance	0.100000	0.100000
mds_bal_min_start	0.200000	0.200000
mds_bal_minchunk	0.001000	0.001000
mds_bal_mode	0	0
mds_bal_need_max	1.200000	1.200000
mds_bal_need_min	0.800000	0.800000
mds_bal_replicate_threshold	8000.000000	8000.000000
mds_bal_sample_interval	3.000000	3.000000

NAME	A VALUE	R VALUE
mds_bal_split_bits	3	3
mds_bal_split_rd	25000.000000	25000.000000
mds_bal_split_size	10000	10000
mds_bal_split_wr	10000.000000	10000.000000
mds_bal_target_decay	10.000000	10.000000
mds_bal_unreplicate_threshold	0.000000	0.000000
mds_beacon_grace	15.000000	15.000000
mds_beacon_interval	4.000000	4.000000
mds_beacon_mon_down_grace	60	60
mds_cache_memory_limit	4294967296	4294967296
mds_cache_mid	0.700000	0.700000
mds_cache_release_free_interval	10	10
mds_cache_reservation	0.050000	0.050000
mds_cache_trim_decay_rate	1.000000	1.000000
mds_cache_trim_interval	1	1
mds_cache_trim_threshold	262144	262144
mds_cap_acquisition_throttle_retry_request_timeout	0.500000	0.500000
mds_cap_revoke_eviction_timeout	0.000000	0.000000
mds_client_delegate_inos_pct	50	50
mds_client_prealloc_inos	1000	1000
mds_client_writeable_range_max_inc_objs	1024	1024
mds_connect_bootstrapping	false	false
mds_damage_table_max_entries	10000	10000
mds_data	/var/lib/ceph/mds/ceph-admin	/var/lib/ceph/mds/ceph-admin
mds_debug_auth_pins	false	false
mds_debug_frag	false	false
mds_debug_scatterstat	false	false
mds_debug_subtrees	false	false
mds_decay_halflife	5.000000	5.000000

NAME	A VALUE	R VALUE
mds_default_dir_hash	2	2
mds_defer_session_stale	true	true
mds_deny_all_reconnect	false	false
mds_dir_keys_per_op	16384	16384
mds_dir_max_commit_size	10	10
mds_dir_max_entries	0	0
mds_dirstat_min_interval	1.000000	1.000000
mds_dump_cache_after_rejoin	false	false
mds_dump_cache_on_map	false	false
mds_dump_cache_threshold_file	0	0
mds_dump_cache_threshold_formatter	1073741824	1073741824
mds_early_reply	true	true
mds_enable_op_tracker	true	true
mds_enforce_unique_name	true	true
mds_export_ephemeral_distributed	true	true
mds_export_ephemeral_distributed_factor	2.000000	2.000000
mds_export_ephemeral_random	true	true
mds_export_ephemeral_random_max	0.010000	0.010000
mds_forward_all_requests_to_auth	false	false
mds_freeze_tree_timeout	30.000000	30.000000
mds_go_bad_corrupt_dentry	true	true
mds_hack_allow_loading_invalid_metadata	false	false
mds_health_cache_threshold	1.500000	1.500000
mds_health_summarize_threshold	10	10
mds_heartbeat_grace	15.000000	15.000000
mds_heartbeat_reset_grace	1000	1000
mds_inject_health_dummy	false	false
mds_inject_journal_corrupt_dentry_first	0.000000	0.000000
mds_inject_migrator_session_race	false	false

NAME	A VALUE	R VALUE
mds_inject_rename_corrupt_dentry_first	0.000000	0.000000
mds_inject_skip_replaying_inotable	false	false
mds_inject_traceless_reply_probability	0.000000	0.000000
mds_join_fs		
mds_journal_format	1	1
mds_kill_create_at	0	0
mds_kill_export_at	0	0
mds_kill_import_at	0	0
mds_kill_journal_at	0	0
mds_kill_journal_expire_at	0	0
mds_kill_journal_replay_at	0	0
mds_kill_link_at	0	0
mds_kill_mdstable_at	0	0
mds_kill_openc_at	0	0
mds_kill_rename_at	0	0
mds_kill_skip_replaying_inotable	false	false
mds_log_events_per_segment	1024	1024
mds_log_max_events	-1	-1
mds_log_max_segments	128	128
mds_log_pause	false	false
mds_log_segment_size	0	0
mds_log_skip_corrupt_events	false	false
mds_log_warn_factor	2.000000	2.000000
mds_max_caps_per_client	1048576	1048576
mds_max_completed_flushes	100000	100000
mds_max_completed_requests	100000	100000
mds_max_export_size	20971520	20971520
mds_max_file_recover	32	32
mds_max_purge_files	64	64

NAME	A VALUE	R VALUE
mds_max_purge_ops	8192	8192
mds_max_purge_ops_per_pg	0.500000	0.500000
mds_max_scrub_ops_in_progress	5	5
mds_max_snaps_per_dir	100	100
mds_max_xattr_pairs_size	65536	65536
mds_metrics_update_interval	2	2
mds_min_caps_per_client	100	100
mds_min_caps_working_set	10000	10000
mds_mon_shutdown_timeout	5.000000	5.000000
mds_numa_node	-1	-1
mds_ofp_prefetch_dirfrags	false	false
mds_op_complaint_time	30.000000	30.000000
mds_op_history_duration	600	600
mds_op_history_size	20	20
mds_op_log_threshold	5	5
mds_ping_grace	15	15
mds_ping_interval	5	5
mds_purge_queue_busy_flush_period	1.000000	1.000000
mds_recall_global_max_decay_threshold	131072	131072
mds_recall_max_caps	30000	30000
mds_recall_max_decay_rate	1.500000	1.500000
mds_recall_max_decay_threshold	131072	131072
mds_recall_warning_decay_rate	60.000000	60.000000
mds_recall_warning_threshold	262144	262144
mds_reconnect_timeout	45.000000	45.000000
mds_replay_interval	1.000000	1.000000
mds_replay_unsafe_with_closed_session	false	false
mds_request_load_average_decay_rate	60.000000	60.000000
mds_root_ino_gid	0	0

NAME	A VALUE	R VALUE
mds_root_ino_uid	0	0
mds_scatter_nudge_interval	5.000000	5.000000
mds_session_blocklist_on_evict	true	true
mds_session_blocklist_on_timeout	true	true
mds_session_cache_liveness_decay_rate	300.000000	300.000000
mds_session_cache_liveness_magnitude	10	10
mds_session_cap_acquisition_decay_rate	30.000000	30.000000
mds_session_cap_acquisition_throttle	100000	100000
mds_session_max_caps_throttle_ratio	1.100000	1.100000
mds_session_metadata_threshold	16777216	16777216
mds_sessionmap_keys_per_op	1024	1024
mds_shutdown_check	0	0
mds_skip_ino	0	0
mds_sleep_rank_change	0.000000	0.000000
mds_snap_max_uid	4294967294	4294967294
mds_snap_min_uid	0	0
mds_snap_rstat	false	false
mds_standby_replay_damaged	false	false
mds_symlink_recovery	true	true
mds_task_status_update_interval	2.000000	2.000000
mds_thrash_exports	0	0
mds_thrash_fragments	0	0
mds_tick_interval	5.000000	5.000000
mds_valgrind_exit	false	false
mds_verify_backtrace	1	1
mds_verify_scatter	false	false
mds_wipe_ino_prealloc	false	false
mds_wipe_sessions	false	false
mempool_debug	false	false

NAME	A VALUE	R VALUE
memstore_debug_omit_block_device_write	false	false
memstore_device_bytes	1073741824	1073741824
memstore_page_set	false	false
memstore_page_size	65536	65536
mgr_client_bytes	134217728	134217728
mgr_client_messages	512	512
mgr_client_service_daemon_unregister_timeout	1.000000	1.000000
mgr_connect_retry_interval	1.000000	1.000000
mgr_data	/var/lib/ceph/mgr/ceph-admin	/var/lib/ceph/mgr/ceph-admin
mgr_debug_aggressive_pg_num_changes	false	false
mgr_disabled_modules	diskprediction_local	
mgr_initial_modules	restful iostat nfs	restful iostat nfs
mgr_max_pg_num_change	128	128
mgr_mds_bytes	134217728	134217728
mgr_mds_messages	128	128
mgr_module_path	/usr/share/ceph/mgr	/usr/share/ceph/mgr
mgr_mon_bytes	134217728	134217728
mgr_mon_messages	128	128
mgr_osd_bytes	536870912	536870912
mgr_osd_messages	8192	8192
mgr_pool	true	true
mgr_service_beacon_grace	60.000000	60.000000
mgr_standby_modules	true	true
mgr_stats_period	5	5
mgr_stats_threshold	5	5
mgr_tick_period	2	2
mgr_ttl_cache_expire_seconds	0	0
mon_accept_timeout_factor	2.000000	2.000000
mon_allow_pool_delete	false	false

NAME	A VALUE	R VALUE
mon_allow_pool_size_one	false	false
mon_auth_validate_all_caps	true	true
mon_cache_target_full_warn_ratio	0.660000	0.660000
mon_clean_pg_upmaps_per_chunk	256	256
mon_client_bytes	104857600	104857600
mon_client_directed_command_retry	2	2
mon_client_hunt_interval	3.000000	3.000000
mon_client_hunt_interval_backoff	1.500000	1.500000
mon_client_hunt_interval_max_multiple	10.000000	10.000000
mon_client_hunt_interval_min_multiple	1.000000	1.000000
mon_client_hunt_parallel	3	3
mon_client_log_interval	1.000000	1.000000
mon_client_max_log_entries_per_message	1000	1000
mon_client_ping_interval	10.000000	10.000000
mon_client_ping_timeout	30.000000	30.000000
mon_clock_drift_allowed	0.050000	0.050000
mon_clock_drift_warn_backoff	5.000000	5.000000
mon_cluster_log_file	default=/var/log/ceph/ceph.Schannel.log cluster=/var/log/ceph/ceph.log	default=/var/log/ceph/ceph.Schannel.log cluster=/var/log/ceph/ceph.log
mon_cluster_log_file_level	debug	debug
mon_cluster_log_to_file	true	true
mon_cluster_log_to_graylog	false	false
mon_cluster_log_to_graylog_host	127.0.0.1	127.0.0.1
mon_cluster_log_to_graylog_port	12201	12201
mon_cluster_log_to_journald	false	false
mon_cluster_log_to_stderr	false	false
mon_cluster_log_to_syslog	default=false	default=false
mon_cluster_log_to_syslog_facility	daemon	daemon
mon_cluster_log_to_syslog_level	info	info
mon_compact_on_bootstrap	false	false

NAME	A VALUE	R VALUE
mon_compact_on_start	false	false
mon_compact_on_trim	true	true
mon_con_tracker_persist_interval	10	10
mon_con_tracker_score_halfife	43200	43200
mon_config_key_max_entry_size	65536	65536
mon_cpu_threads	4	4
mon_crush_min_required_version	hammer	hammer
mon_daemon_bytes	419430400	419430400
mon_data	/var/lib/ceph/mon/ceph-admin	/var/lib/ceph/mon/ceph-admin
mon_data_avail_crit	5	5
mon_data_avail_warn	30	30
mon_data_size_warn	16106127360	16106127360
mon_debug_block_osdmap_trim	false	false
mon_debug_deprecated_as_obsolete	false	false
mon_debug_dump_json	false	false
mon_debug_dump_location	/var/log/ceph/ceph-client.admin.tdump	/var/log/ceph/ceph-client.admin.tdump
mon_debug_dump_transactions	false	false
mon_debug_extra_checks	false	false
mon_debug_no_initial_persistent_features	false	false
mon_debug_no_require_bluestore_for_ec_overwrites	false	false
mon_debug_no_require_pacific	false	false
mon_debug_no_require_quincy	false	false
mon_debug_unsafe_allow_tier_with_nonempty_snaps	false	false
mon_delta_reset_interval	10.000000	10.000000
mon_dns_srv_name	ceph-mon	ceph-mon
mon_down_mkfs_grace	60	60
mon_election_default_strategy	1	1
mon_election_timeout	5.000000	5.000000
mon_elector_ignore_propose_margin	0.000500	0.000500

NAME	A VALUE	R VALUE
mon_elector_ping_divisor	2	2
mon_elector_ping_timeout	2.000000	2.000000
mon_enable_op_tracker	true	true
mon_fake_pool_delete	false	false
mon_force_quorum_join	false	false
mon_globalid_prealloc	10000	10000
mon_health_detail_to_clog	true	true
mon_health_log_update_period	5	5
mon_health_max_detail	50	50
mon_health_to_clog	true	true
mon_health_to_clog_interval	600	600
mon_health_to_clog_tick_interval	60.000000	60.000000
mon_host	192.168.16.10,192.168.16.11,192.168.16.12	192.168.16.12:6789,192.168.16.11:6789,192.168.16.10:6789
mon_host_override		
mon_initial_members		
mon_inject_pg_merge_bounce_probability	0.000000	0.000000
mon_inject_sync_get_chunk_delay	0.000000	0.000000
mon_inject_transaction_delay_max	10.000000	10.000000
mon_inject_transaction_delay_probability	0.000000	0.000000
mon_keyvaluedb	rocksdb	rocksdb
mon_lease	5.000000	5.000000
mon_lease_ack_timeout_factor	2.000000	2.000000
mon_lease_renew_interval_factor	0.600000	0.600000
mon_log_full_interval	50	50
mon_log_max	10000	10000
mon_log_max_summary	50	50
mon_max_log_entries_per_event	4096	4096
mon_max_log_epochs	500	500
mon_max_mdsmmap_epochs	500	500

NAME	A VALUE	R VALUE
mon_max_mgrmap_epochs	500	500
mon_max_osd	10000	10000
mon_max_pg_per_osd	250	250
mon_max_pool_pg_num	65536	65536
mon_max_snap_prune_per_epoch	100	100
mon_mds_blocklist_interval	86400.000000	86400.000000
mon_mds_force_trim_to	0	0
mon_mds_skip_sanity	false	false
mon_memory_autotune	true	true
mon_memory_target	2147483648	2147483648
mon_mgr_beacon_grace	30	30
mon_mgr_blocklist_interval	86400.000000	86400.000000
mon_mgr_digest_period	5	5
mon_mgr_inactive_grace	60	60
mon_mgr_mkfs_grace	120	120
mon_mgr_proxy_client_bytes_ratio	0.300000	0.300000
mon_min_osdmap_epochs	500	500
mon_op_complaint_time	30	30
mon_op_history_duration	600	600
mon_op_history_size	20	20
mon_op_history_slow_op_size	20	20
mon_op_history_slow_op_threshold	10	10
mon_op_log_threshold	5	5
mon_osd_adjust_down_out_interval	true	true
mon_osd_adjust_heartbeat_grace	true	true
mon_osd_auto_mark_auto_out_in	true	true
mon_osd_auto_mark_in	false	false
mon_osd_auto_mark_new_in	true	true
mon_osd_backfillfull_ratio	0.900000	0.900000

NAME	A VALUE	R VALUE
mon_osd_blocklist_default_expire	3600.000000	3600.000000
mon_osd_cache_size	500	500
mon_osd_cache_size_min	134217728	134217728
mon_osd_crush_smoke_test	true	true
mon_osd_destroyed_out_interval	600	600
mon_osd_down_out_interval	600	600
mon_osd_down_out_subtree_limit	rack	rack
mon_osd_err_op_age_ratio	128.000000	128.000000
mon_osd_force_trim_to	0	0
mon_osd_full_ratio	0.950000	0.950000
mon_osd_initial_require_min_compat_client	luminous	luminous
mon_osd_laggy_halfife	3600	3600
mon_osd_laggy_max_interval	300	300
mon_osd_laggy_weight	0.300000	0.300000
mon_osd_mapping_pgs_per_chunk	4096	4096
mon_osd_max_creating_pgs	1024	1024
mon_osd_max_initial_pgs	1024	1024
mon_osd_min_down_reporters	2	2
mon_osd_min_in_ratio	0.750000	0.750000
mon_osd_min_up_ratio	0.300000	0.300000
mon_osd_nearfull_ratio	0.850000	0.850000
mon_osd_prime_pg_temp	true	true
mon_osd_prime_pg_temp_max_estimate	0.250000	0.250000
mon_osd_prime_pg_temp_max_time	0.500000	0.500000
mon_osd_report_timeout	900	900
mon_osd_reporter_subtree_level	host	host
mon_osd_snap_trim_queue_warn_on	32768	32768
mon_osd_warn_num_repaired	10	10
mon_osd_warn_op_age	32.000000	32.000000

NAME	A VALUE	R VALUE
mon_osdmap_full_prune_enabled	true	true
mon_osdmap_full_prune_interval	10	10
mon_osdmap_full_prune_min	10000	10000
mon_osdmap_full_prune_txsize	100	100
mon_pg_check_down_all_threshold	0.500000	0.500000
mon_pg_stuck_threshold	60	60
mon_pg_warn_max_object_skew	10.000000	10.000000
mon_pg_warn_min_objects	10000	10000
mon_pg_warn_min_per_osd	0	0
mon_pg_warn_min_pool_objects	1000	1000
mon_pool_quota_crit_threshold	0	0
mon_pool_quota_warn_threshold	0	0
mon_probe_timeout	2.000000	2.000000
mon_reweight_max_change	0.050000	0.050000
mon_reweight_max_osds	4	4
mon_reweight_min_bytes_per_osd	104857600	104857600
mon_reweight_min_pgs_per_osd	10	10
mon_rocksdb_options	write_buffer_size=33554432,compression=kNoCompression,level_compaction_dynamic_level_bytes=true	write_buffer_size=33554432,compression=kNoCompression,level_compaction_dynamic_level_bytes=true
mon_scrub_inject_crc_mismatch	0.000000	0.000000
mon_scrub_inject_missing_keys	0.000000	0.000000
mon_scrub_interval	86400	86400
mon_scrub_max_keys	100	100
mon_scrub_timeout	300	300
mon_session_timeout	300	300
mon_smart_report_timeout	5	5
mon_stat_smooth_intervals	6	6
mon_stretch_cluster_recovery_ratio	0.600000	0.600000
mon_stretch_pool_min_size	2	2

NAME	A VALUE	R VALUE
mon_stretch_pool_size	4	4
mon_stretch_recovery_min_wait	15.000000	15.000000
mon_subscribe_interval	86400.000000	86400.000000
mon_sync_debug	false	false
mon_sync_max_payload_keys	2000	2000
mon_sync_max_payload_size	1048576	1048576
mon_sync_provider_kill_at	0	0
mon_sync_requester_kill_at	0	0
mon_sync_timeout	60.000000	60.000000
mon_target_pg_per_osd	100	100
mon_tick_interval	5	5
mon_timecheck_interval	300.000000	300.000000
mon_timecheck_skew_interval	30.000000	30.000000
mon_warn_older_version_delay	604800	604800
mon_warn_on_cache_pools_without_hit_sets	true	true
mon_warn_on_crush_straw_calc_version_zero	true	true
mon_warn_on_degraded_stretch_mode	true	true
mon_warn_on_filestore_osds	true	true
mon_warn_on_insecure_global_id_reclaim	true	true
mon_warn_on_insecure_global_id_reclaim_allowed	true	true
mon_warn_on_legacy_crush_tunables	true	true
mon_warn_on_misplaced	false	false
mon_warn_on_msgr2_not_enabled	true	true
mon_warn_on_older_version	true	true
mon_warn_on_osd_down_out_interval_zero	true	true
mon_warn_on_pool_no_app	true	true
mon_warn_on_pool_no_redundancy	true	true
mon_warn_on_pool_pg_num_not_power_of_two	true	true
mon_warn_on_slow_ping_ratio	0.050000	0.050000

NAME	A VALUE	R VALUE
mon_warn_on_slow_ping_time	0.000000	0.000000
mon_warn_on_too_few_osds	true	true
mon_warn_pg_not_deep_scrubbed_ratio	0.750000	0.750000
mon_warn_pg_not_scrubbed_ratio	0.500000	0.500000
monmap		
ms_async_op_threads	3	3
ms_async_rdma_buffer_size	131072	131072
ms_async_rdma_cm	false	false
ms_async_rdma_device_name		
ms_async_rdma_dscp	96	96
ms_async_rdma_enable_hugepage	false	false
ms_async_rdma_gid_idx	0	0
ms_async_rdma_local_gid		
ms_async_rdma_polling_us	1000	1000
ms_async_rdma_port_num	1	1
ms_async_rdma_receive_buffers	32768	32768
ms_async_rdma_receive_queue_len	4096	4096
ms_async_rdma_roce_ver	1	1
ms_async_rdma_send_buffers	1024	1024
ms_async_rdma_sl	3	3
ms_async_rdma_support_srq	true	true
ms_async_rdma_type	ib	ib
ms_async_reap_threshold	5	5
ms_bind_before_connect	false	false
ms_bind_ipv4	true	true
ms_bind_ipv6	false	false
ms_bind_msgr1	true	true
ms_bind_msgr2	true	true
ms_bind_port_max	7568	7568

NAME	A VALUE	R VALUE
ms_bind_port_min	6800	6800
ms_bind_prefer_ipv4	false	false
ms_bind_retry_count	3	3
ms_bind_retry_delay	5	5
ms_blackhole_client	false	false
ms_blackhole_mds	false	false
ms_blackhole_mgr	false	false
ms_blackhole_mon	false	false
ms_blackhole_osd	false	false
ms_client_mode	crc secure	crc secure
ms_cluster_mode	crc secure	crc secure
ms_cluster_type		
ms_compress_secure	false	false
ms_connection_idle_timeout	900	900
ms_connection_ready_timeout	10	10
ms_crc_data	true	true
ms_crc_header	true	true
ms_die_on_bad_msg	false	false
ms_die_on_bug	false	false
ms_die_on_old_message	false	false
ms_die_on_skipped_message	false	false
ms_die_on_unhandled_msg	false	false
ms_dispatch_throttle_bytes	104857600	104857600
ms_dpdk_coremask	0xF	0xF
ms_dpdk_debug_allow_loopback	false	false
ms_dpdk_devs_allowlist		
ms_dpdk_enable_tso	true	true
ms_dpdk_gateway_ipv4_addr		
ms_dpdk_host_ipv4_addr		

NAME	A VALUE	R VALUE
ms_dpdk_hugepages		
ms_dpdk_hw_flow_control	true	true
ms_dpdk_hw_queue_weight	1.000000	1.000000
ms_dpdk_lro	true	true
ms_dpdk_memory_channel	4	4
ms_dpdk_netmask_ipv4_addr		
ms_dpdk_pmd		
ms_dpdk_port_id	0	0
ms_dpdk_rx_buffer_count_per_core	8192	8192
ms_dump_corrupt_message_level	1	1
ms_dump_on_send	false	false
ms_initial_backoff	0.200000	0.200000
ms_inject_delay_max	1.000000	1.000000
ms_inject_delay_probability	0.000000	0.000000
ms_inject_delay_type		
ms_inject_internal_delays	0.000000	0.000000
ms_inject_socket_failures	0	0
ms_learn_addr_from_peer	true	true
ms_max_accept_failures	4	4
ms_max_backoff	15.000000	15.000000
ms_mon_client_mode	secure crc	secure crc
ms_mon_cluster_mode	secure crc	secure crc
ms_mon_service_mode	secure crc	secure crc
ms_osd_compress_min_size	1024	1024
ms_osd_compress_mode	none	none
ms_osd_compression_algorithm	snappy zlib zstd lz4	snappy zlib zstd lz4
ms_pq_max_tokens_per_priority	16777216	16777216
ms_pq_min_cost	65536	65536
ms_public_type		

NAME	A VALUE	R VALUE
ms_service_mode	crc secure	crc secure
ms_tcp_listen_backlog	512	512
ms_tcp_nodelay	true	true
ms_tcp_prefetch_max_size	4096	4096
ms_tcp_rcvbuf	0	0
ms_type	async+posix	async+posix
no_config_file	false	false
objecter_completion_locks_per_session	32	32
objecter_debug_inject_relock_delay	false	false
objecter_inflight_op_bytes	104857600	104857600
objecter_inflight_ops	1024	1024
objecter_inject_no_watch_ping	false	false
objecter_retry_writes_after_first_reply	false	false
objecter_tick_interval	5.000000	5.000000
objecter_timeout	10.000000	10.000000
objectstore_blackhole	false	false
openssl_engine_opts		
osd_agent_delay_time	5.000000	5.000000
osd_agent_hist_half-life	1000	1000
osd_agent_max_low_ops	2	2
osd_agent_max_ops	4	4
osd_agent_min_evict_effort	0.100000	0.100000
osd_agent_quantize_effort	0.100000	0.100000
osd_agent_slop	0.020000	0.020000
osd_aggregated_slow_ops_logging	true	true
osd_allow_recovery_below_min_size	true	true
osd_asio_thread_count	2	2
osd_async_recovery_min_cost	100	100
osd_auto_mark_unfound_lost	false	false

NAME	A VALUE	R VALUE
osd_backfill_retry_interval	30.000000	30.000000
osd_backfill_scan_max	512	512
osd_backfill_scan_min	64	64
osd_backoff_on_degraded	false	false
osd_backoff_on_peering	false	false
osd_backoff_on_unfound	true	true
osd_beacon_report_interval	300	300
osd_bench_duration	30	30
osd_bench_large_size_max_throughput	104857600	104857600
osd_bench_max_block_size	67108864	67108864
osd_bench_small_size_max_iops	100	100
osd_bikin_trace_all	false	false
osd_calc_pg_upmaps_aggressively	true	true
osd_calc_pg_upmaps_local_fallback_retries	100	100
osd_check_for_log_corruption	false	false
osd_check_max_object_name_len_on_startup	true	true
osd_class_default_list	cephfs hello journal lock log numops otp rbd reccount rgw rgw_gc timeindex user version cas cmpomap queue 2pc_queue fifo	cephfs hello journal lock log numops otp rbd reccount rgw rgw_gc timeindex user version cas cmpomap queue 2pc_queue fifo
osd_class_dir	/usr/lib/rados-classes	/usr/lib64/rados-classes
osd_class_load_list	cephfs hello journal lock log numops otp rbd reccount rgw rgw_gc timeindex user version cas cmpomap queue 2pc_queue fifo	cephfs hello journal lock log numops otp rbd reccount rgw rgw_gc timeindex user version cas cmpomap queue 2pc_queue fifo
osd_class_update_on_start	true	true
osd_client_message_cap	256	256
osd_client_message_size_cap	524288000	524288000
osd_client_op_priority	63	63
osd_client_watch_timeout	30	30
osd_command_max_records	256	256
osd_compact_on_start	false	false
osd_copyfrom_max_chunk	8388608	8388608
osd_crush_chooseleaf_type	1	1

NAME	A VALUE	R VALUE
osd_crush_initial_weight	-1.000000	-1.000000
osd_crush_update_on_start	true	true
osd_crush_update_weight_set	true	true
osd_data	/var/lib/ceph/osd/ceph-admin	/var/lib/ceph/osd/ceph-admin
osd_debug_crash_on_ignored_backoff	false	false
osd_debug_deep_scrub_sleep	0.000000	0.000000
osd_debug_drop_ping_duration	0	0
osd_debug_drop_ping_probability	0.000000	0.000000
osd_debug_feed_pullee	-1	-1
osd_debug_inject_copyfrom_error	false	false
osd_debug_inject_dispatch_delay_duration	0.100000	0.100000
osd_debug_inject_dispatch_delay_probability	0.000000	0.000000
osd_debug_misdirected_ops	false	false
osd_debug_no_acting_change	false	false
osd_debug_no_purge_strays	false	false
osd_debug_op_order	false	false
osd_debug_pg_log_writeout	false	false
osd_debug_pretend_recovery_active	false	false
osd_debug_random_push_read_error	0.000000	0.000000
osd_debug_reject_backfill_probability	0.000000	0.000000
osd_debug_shutdown	false	false
osd_debug_skip_full_check_in_backfill_reservation	false	false
osd_debug_skip_full_check_in_recovery	false	false
osd_debug_verify_cached_snaps	false	false
osd_debug_verify_missing_on_start	false	false
osd_debug_verify_snaps	false	false
osd_debug_verify_stray_on_activate	false	false
osd_deep_scrub_interval	604800.000000	604800.000000
osd_deep_scrub_keys	1024	1024

NAME	A VALUE	R VALUE
osd_deep_scrub_large_omap_object_key_threshold	200000	200000
osd_deep_scrub_large_omap_object_value_sum_threshold	1073741824	1073741824
osd_deep_scrub_randomize_ratio	0.150000	0.150000
osd_deep_scrub_stride	524288	524288
osd_deep_scrub_update_digest_min_age	7200	7200
osd_default_data_pool_replay_window	45	45
osd_default_notify_timeout	30	30
osd_delete_sleep	0.000000	0.000000
osd_delete_sleep_hdd	5.000000	5.000000
osd_delete_sleep_hybrid	1.000000	1.000000
osd_delete_sleep_ssd	1.000000	1.000000
osd_discard_disconnected_ops	true	true
osd_enable_op_tracker	true	true
osd_erasure_code_plugins	jerasure lrc	jerasure lrc
osd_failsafe_full_ratio	0.970000	0.970000
osd_fast_fail_on_connection_refused	true	true
osd_fast_info	true	true
osd_fast_shutdown	true	true
osd_fast_shutdown_notify_mon	true	true
osd_fast_shutdown_timeout	15	15
osd_find_best_info_ignore_history_lvs	false	false
osd_force_auth_primary_missing_objects	100	100
osd_force_recovery_pg_log_entries_factor	1.300000	1.300000
osd_function_tracing	false	false
osd_heartbeat_grace	20	20
osd_heartbeat_interval	6	6
osd_heartbeat_min_healthy_ratio	0.330000	0.330000
osd_heartbeat_min_peers	10	10
osd_heartbeat_min_size	2000	2000

NAME	A VALUE	R VALUE
osd_heartbeat_stale	600	600
osd_heartbeat_use_min_delay_socket	false	false
osd_hit_set_max_size	100000	100000
osd_hit_set_min_size	1000	1000
osd_hit_set_namespace	.ceph-internal	.ceph-internal
osd_ignore_stale_divergent_priors	false	false
osd_inject_bad_map_crc_probability	0.000000	0.000000
osd_inject_failure_on_pg_removal	false	false
osd_journal	/var/lib/ceph/osd/ceph-admin/journal	/var/lib/ceph/osd/ceph-admin/journal
osd_journal_flush_on_shutdown	true	true
osd_journal_size	5120	5120
osd_kill_backfill_at	0	0
osd_loop_before_reset_tphandle	64	64
osd_map_cache_size	50	50
osd_map_dedup	true	true
osd_map_message_max	40	40
osd_map_message_max_bytes	10485760	10485760
osd_map_share_max_epochs	40	40
osd_max_attr_name_len	100	100
osd_max_attr_size	0	0
osd_max_backfills	1	1
osd_max_markdown_count	5	5
osd_max_markdown_period	600	600
osd_max_object_name_len	2048	2048
osd_max_object_namespace_len	256	256
osd_max_object_size	134217728	134217728
osd_max_omap_bytes_per_request	1073741824	1073741824
osd_max_omap_entries_per_request	1024	1024
osd_max_pg_blocked_by	16	16

NAME	A VALUE	R VALUE
osd_max_pg_log_entries	10000	10000
osd_max_pg_per_osd_hard_ratio	3.000000	3.000000
osd_max_pgls	1024	1024
osd_max_push_cost	8388608	8388608
osd_max_push_objects	10	10
osd_max_scrubs	1	1
osd_max_snap_prune_intervals_per_epoch	512	512
osd_max_trimming_pgs	2	2
osd_max_write_op_reply_len	64	64
osd_max_write_size	90	90
osd_mclock_force_run_benchmark_on_init	false	false
osd_mclock_iops_capacity_threshold_hdd	500.000000	500.000000
osd_mclock_iops_capacity_threshold_ssd	80000.000000	80000.000000
osd_mclock_max_capacity_iops_hdd	315.000000	315.000000
osd_mclock_max_capacity_iops_ssd	21500.000000	21500.000000
osd_mclock_max_sequential_bandwidth_hdd	157286400	157286400
osd_mclock_max_sequential_bandwidth_ssd	1258291200	1258291200
osd_mclock_override_recovery_settings	false	false
osd_mclock_profile	balanced	balanced
osd_mclock_scheduler_anticipation_timeout	0.000000	0.000000
osd_mclock_scheduler_background_best_effort_lim	0.000000	0.000000
osd_mclock_scheduler_background_best_effort_res	0.000000	0.000000
osd_mclock_scheduler_background_best_effort_wgt	1	1
osd_mclock_scheduler_background_recovery_lim	0.000000	0.000000
osd_mclock_scheduler_background_recovery_res	0.000000	0.000000
osd_mclock_scheduler_background_recovery_wgt	1	1
osd_mclock_scheduler_client_lim	0.000000	0.000000
osd_mclock_scheduler_client_res	0.000000	0.000000
osd_mclock_scheduler_client_wgt	1	1

NAME	A VALUE	R VALUE
osd_mclock_skip_benchmark	false	false
osd_memory_base	805306368	805306368
osd_memory_cache_min	134217728	134217728
osd_memory_cache_resize_interval	1.000000	1.000000
osd_memory_expected_fragmentation	0.150000	0.150000
osd_memory_target	4294967296	4294967296
osd_memory_target_autotune	false	false
osd_memory_target_cgroup_limit_ratio	0.800000	0.800000
osd_min_pg_log_entries	250	250
osd_min_recovery_priority	0	0
osd_mon_heartbeat_interval	30	30
osd_mon_heartbeat_stat_stale	3600	3600
osd_mon_report_interval	5	5
osd_mon_report_max_in_flight	2	2
osd_mon_shutdown_timeout	5.000000	5.000000
osd_num_cache_shards	32	32
osd_num_op_tracker_shard	32	32
osd_numa_auto_affinity	true	true
osd_numa_node	-1	-1
osd_numa_prefer_iface	true	true
osd_object_clean_region_max_num_intervals	10	10
osd_objecter_finishers	1	1
osd_objectstore	bluestore	bluestore
osd_objectstore_fuse	false	false
osd_objectstore_tracing	false	false
osd_op_complaint_time	30.000000	30.000000
osd_op_history_duration	600	600
osd_op_history_size	20	20
osd_op_history_slow_op_size	20	20

NAME	A VALUE	R VALUE
osd_op_history_slow_op_threshold	10.000000	10.000000
osd_op_log_threshold	5	5
osd_op_num_shards	0	0
osd_op_num_shards_hdd	5	5
osd_op_num_shards_ssd	8	8
osd_op_num_threads_per_shard	0	0
osd_op_num_threads_per_shard_hdd	1	1
osd_op_num_threads_per_shard_ssd	2	2
osd_op_pq_max_tokens_per_priority	4194304	4194304
osd_op_pq_min_cost	65536	65536
osd_op_queue	mclock_scheduler	mclock_scheduler
osd_op_queue_cut_off	high	high
osd_op_thread_suicide_timeout	150	150
osd_op_thread_timeout	15	15
osd_open_classes_on_start	true	true
osd_os_flags	0	0
osd_peering_op_priority	255	255
osd_pg_delete_cost	1048576	1048576
osd_pg_delete_priority	5	5
osd_pg_epoch_max_lag_factor	2.000000	2.000000
osd_pg_epoch_persisted_max_stale	40	40
osd_pg_log_dups_tracked	3000	3000
osd_pg_log_trim_max	10000	10000
osd_pg_log_trim_min	100	100
osd_pg_max_concurrent_snap_trims	2	2
osd_pg_object_context_cache_count	64	64
osd_pg_stat_report_interval_max	500	500
osd_pool_default_cache_max_evict_check_size	10	10
osd_pool_default_cache_min_evict_age	0	0

NAME	A VALUE	R VALUE
osd_pool_default_cache_min_flush_age	0	0
osd_pool_default_cache_target_dirty_high_ratio	0.600000	0.600000
osd_pool_default_cache_target_dirty_ratio	0.400000	0.400000
osd_pool_default_cache_target_full_ratio	0.800000	0.800000
osd_pool_default_crush_rule	-1	-1
osd_pool_default_ec_fast_read	false	false
osd_pool_default_erasure_code_profile	plugin=jerasure technique=reed_sol_van k=2 m=2	plugin=jerasure technique=reed_sol_van k=2 m=2
osd_pool_default_flag_bulk	false	false
osd_pool_default_flag_hashpspool	true	true
osd_pool_default_flag_nodelete	false	false
osd_pool_default_flag_nopgchange	false	false
osd_pool_default_flag_nosizechange	false	false
osd_pool_default_flags	0	0
osd_pool_default_hit_set_bloom_fpp	0.050000	0.050000
osd_pool_default_min_size	0	0
osd_pool_default_pg_autoscale_mode	on	on
osd_pool_default_pg_num	32	32
osd_pool_default_pgp_num	0	0
osd_pool_default_read_lease_ratio	0.800000	0.800000
osd_pool_default_size	3	3
osd_pool_default_type	replicated	replicated
osd_pool_erasure_code_stripe_unit	4096	4096
osd_pool_use_gmt_hitset	true	true
osd_push_per_object_cost	1000	1000
osd_read_ec_check_for_errors	false	false
osd_recover_clone_overlap	true	true
osd_recover_clone_overlap_limit	10	10
osd_recovery_cost	20971520	20971520
osd_recovery_delay_start	0.000000	0.000000

NAME	A VALUE	R VALUE
osd_recovery_max_active	0	0
osd_recovery_max_active_hdd	3	3
osd_recovery_max_active_ssd	10	10
osd_recovery_max_chunk	8388608	8388608
osd_recovery_max_omap_entries_per_chunk	8096	8096
osd_recovery_max_single_start	1	1
osd_recovery_op_priority	3	3
osd_recovery_op_warn_multiple	16	16
osd_recovery_priority	5	5
osd_recovery_retry_interval	30.000000	30.000000
osd_recovery_sleep	0.000000	0.000000
osd_recovery_sleep_hdd	0.100000	0.100000
osd_recovery_sleep_hybrid	0.025000	0.025000
osd_recovery_sleep_ssd	0.000000	0.000000
osd_repair_during_recovery	false	false
osd_requested_scrub_priority	120	120
osd_rocksdb_iterator_bounds_enabled	true	true
osd_rollback_to_cluster_snap		
osd_scrub_auto_repair	false	false
osd_scrub_auto_repair_num_errors	5	5
osd_scrub_backoff_ratio	0.660000	0.660000
osd_scrub_begin_hour	0	0
osd_scrub_begin_week_day	0	0
osd_scrub_chunk_max	25	25
osd_scrub_chunk_min	5	5
osd_scrub_cost	52428800	52428800
osd_scrub_during_recovery	false	false
osd_scrub_end_hour	0	0
osd_scrub_end_week_day	0	0

NAME	A VALUE	R VALUE
osd_scrub_event_cost	4096	4096
osd_scrub_extended_sleep	0.000000	0.000000
osd_scrub_interval_randomize_ratio	0.500000	0.500000
osd_scrub_invalid_stats	true	true
osd_scrub_load_threshold	0.500000	0.500000
osd_scrub_max_interval	604800.000000	604800.000000
osd_scrub_max_preemptions	5	5
osd_scrub_min_interval	86400.000000	86400.000000
osd_scrub_priority	5	5
osd_scrub_sleep	0.000000	0.000000
osd_shutdown_pgref_assert	false	false
osd_skip_data_digest	false	false
osd_smart_report_timeout	5	5
osd_snap_trim_cost	1048576	1048576
osd_snap_trim_priority	5	5
osd_snap_trim_sleep	0.000000	0.000000
osd_snap_trim_sleep_hdd	5.000000	5.000000
osd_snap_trim_sleep_hybrid	2.000000	2.000000
osd_snap_trim_sleep_ssd	0.000000	0.000000
osd_target_pg_log_entries_per_osd	300000	300000
osd_target_transaction_size	30	30
osd_tier_default_cache_hit_set_count	4	4
osd_tier_default_cache_hit_set_grade_decay_rate	20	20
osd_tier_default_cache_hit_set_period	1200	1200
osd_tier_default_cache_hit_set_search_last_n	1	1
osd_tier_default_cache_hit_set_type	bloom	bloom
osd_tier_default_cache_min_read_recency_for_promote	1	1
osd_tier_default_cache_min_write_recency_for_promote	1	1
osd_tier_default_cache_mode	writeback	writeback

NAME	A VALUE	R VALUE
osd_tier_promote_max_bytes_sec	5242880	5242880
osd_tier_promote_max_objects_sec	25	25
osd_tracing	false	false
osd_use_stale_snap	false	false
osd_uuid	00000000-0000-0000-0000-000000000000	00000000-0000-0000-0000-000000000000
osdc_blkio_trace_all	false	false
paxos_kill_at	0	0
paxos_max_join_drift	10	10
paxos_min	500	500
paxos_min_wait	0.050000	0.050000
paxos_propose_interval	1.000000	1.000000
paxos_service_trim_max	500	500
paxos_service_trim_max_multiplier	20	20
paxos_service_trim_min	250	250
paxos_stash_full_interval	25	25
paxos_trim_max	500	500
paxos_trim_min	250	250
perf	true	true
pid_file		
plugin_crypto_accelerator	crypto_isal	crypto_isal
plugin_dir	/usr/lib/ceph	/usr/lib64/ceph
public_addr	-	-
public_addrv		
public_bind_addr	-	-
public_network		
public_network_interface		
qat_compressor_enabled	false	false
rados_mon_op_timeout	0	0
rados_osd_op_timeout	0	0

NAME	A VALUE	R VALUE
rados_tracing	false	false
rbd_atime_update_interval	60	60
rbd_auto_exclusive_lock_until_manual_request	true	true
rbd_balance_parent_reads	false	false
rbd_balance_snap_reads	false	false
rbd_blkio_trace_all	false	false
rbd_blocklist_expire_seconds	0	0
rbd_blocklist_on_break_lock	true	true
rbd_cache	true	true
rbd_cache_block_writes_upfront	false	false
rbd_cache_max_dirty	25165824	25165824
rbd_cache_max_dirty_age	1.000000	1.000000
rbd_cache_max_dirty_object	0	0
rbd_cache_policy	writearound	writearound
rbd_cache_size	33554432	33554432
rbd_cache_target_dirty	16777216	16777216
rbd_cache_writethrough_until_flush	true	true
rbd_clone_copy_on_read	false	false
rbd_compression_hint	none	none
rbd_concurrent_management_ops	10	10
rbd_config_pool_override_update_timestamp	0	0
rbd_default_clone_format	auto	auto
rbd_default_data_pool		
rbd_default_features	61	61
rbd_default_format	2	2
rbd_default_map_options		
rbd_default_order	22	22
rbd_default_pool	rbd	rbd
rbd_default_snapshot_quiesce_mode	required	required

NAME	A VALUE	R VALUE
rbd_default_stripe_count	0	0
rbd_default_stripe_unit	0	0
rbd_disable_zero_copy_writes	true	true
rbd_discard_granularity_bytes	65536	65536
rbd_discard_on_zeroed_write_same	true	true
rbd_enable_alloc_hint	true	true
rbd_invalidate_object_map_on_timeout	true	true
rbd_io_scheduler	simple	simple
rbd_io_scheduler_simple_max_delay	0	0
rbd_journal_commit_age	5.000000	5.000000
rbd_journal_max_concurrent_object_sets	0	0
rbd_journal_max_payload_bytes	16384	16384
rbd_journal_object_flush_age	0.000000	0.000000
rbd_journal_object_flush_bytes	1048576	1048576
rbd_journal_object_flush_interval	0	0
rbd_journal_object_max_in_flight_appends	0	0
rbd_journal_object_writethrough_until_flush	true	true
rbd_journal_order	24	24
rbd_journal_pool		
rbd_journal_splay_width	4	4
rbd_localize_parent_reads	false	false
rbd_localize_snap_reads	false	false
rbd_mirror_concurrent_image_deletions	1	1
rbd_mirror_concurrent_image_syncs	5	5
rbd_mirror_delete_retry_interval	30.000000	30.000000
rbd_mirror_image_perf_stats_prio	5	5
rbd_mirror_image_policy_migration_throttle	300	300
rbd_mirror_image_policy_rebalance_timeout	0.000000	0.000000
rbd_mirror_image_policy_type	simple	simple

NAME	A VALUE	R VALUE
rbd_mirror_image_policy_update_throttle_interval	1.000000	1.000000
rbd_mirror_image_state_check_interval	30	30
rbd_mirror_journal_commit_age	5.000000	5.000000
rbd_mirror_journal_poll_age	5.000000	5.000000
rbd_mirror_leader_heartbeat_interval	5	5
rbd_mirror_leader_max_acquire_attempts_before_break	3	3
rbd_mirror_leader_max_missed_heartbeats	2	2
rbd_mirror_memory_autotune	true	true
rbd_mirror_memory_base	805306368	805306368
rbd_mirror_memory_cache_autotune_interval	30.000000	30.000000
rbd_mirror_memory_cache_min	134217728	134217728
rbd_mirror_memory_cache_resize_interval	5.000000	5.000000
rbd_mirror_memory_expected_fragmentation	0.150000	0.150000
rbd_mirror_memory_target	4294967296	4294967296
rbd_mirror_perf_stats_prio	5	5
rbd_mirror_pool_replayers_refresh_interval	30	30
rbd_mirror_sync_point_update_age	30.000000	30.000000
rbd_mirroring_delete_delay	0	0
rbd_mirroring_max_mirroring_snapshots	5	5
rbd_mirroring_replay_delay	0	0
rbd_mirroring_resync_after_disconnect	false	false
rbd_move_parent_to_trash_on_remove	false	false
rbd_move_to_trash_on_remove	false	false
rbd_move_to_trash_on_remove_expire_seconds	0	0
rbd_mtime_update_interval	60	60
rbd_non_blocking_aio	true	true
rbd_op_thread_timeout	60	60
rbd_op_threads	1	1
rbd_parent_cache_enabled	false	false

NAME	A VALUE	R VALUE
rdp_persistent_cache_mode	disabled	disabled
rdp_persistent_cache_path	/tmp	/tmp
rdp_persistent_cache_size	1073741824	1073741824
rdp_plugins		
rdp_qos_bps_burst	0	0
rdp_qos_bps_burst_seconds	1	1
rdp_qos_bps_limit	0	0
rdp_qos_exclude_ops	0	0
rdp_qos_iops_burst	0	0
rdp_qos_iops_burst_seconds	1	1
rdp_qos_iops_limit	0	0
rdp_qos_read_bps_burst	0	0
rdp_qos_read_bps_burst_seconds	1	1
rdp_qos_read_bps_limit	0	0
rdp_qos_read_iops_burst	0	0
rdp_qos_read_iops_burst_seconds	1	1
rdp_qos_read_iops_limit	0	0
rdp_qos_schedule_tick_min	50	50
rdp_qos_write_bps_burst	0	0
rdp_qos_write_bps_burst_seconds	1	1
rdp_qos_write_bps_limit	0	0
rdp_qos_write_iops_burst	0	0
rdp_qos_write_iops_burst_seconds	1	1
rdp_qos_write_iops_limit	0	0
rdp_quiesce_notification_attempts	10	10
rdp_read_from_replica_policy	default	default
rdp_readahead_disable_after_bytes	52428800	52428800
rdp_readahead_max_bytes	524288	524288
rdp_readahead_trigger_requests	10	10

NAME	A VALUE	R VALUE
rbd_request_timed_out_seconds	30	30
rbd_skip_partial_discard	true	true
rbd_sparse_read_threshold_bytes	65536	65536
rbd_tracing	false	false
rbd_validate_names	true	true
rbd_validate_pool	true	true
restapi_base_url		
restapi_log_level		
rgw_acl_grants_max_num	100	100
rgw_admin_entry	admin	admin
rgw_backend_store	rados	rados
rgw_barbican_url		
rgw_beast_enable_async	true	true
rgw_bucket_default_quota_max_objects	-1	-1
rgw_bucket_default_quota_max_size	-1	-1
rgw_bucket_index_max_aio	128	128
rgw_bucket_quota_cache_size	10000	10000
rgw_bucket_quota_ttl	600	600
rgw_cache_enabled	true	true
rgw_cache_expiry_interval	900	900
rgw_cache_lru_size	10000	10000
rgw_content_length_compat	false	false
rgw_copy_obj_progress	true	true
rgw_copy_obj_progress_every_bytes	1048576	1048576
rgw_cors_rules_max_num	100	100
rgw_cross_domain_policy	<allow-access-from domain="*" secure="false" />	<allow-access-from domain="*" secure="false" />
rgw_crypt_default_encryption_key		
rgw_crypt_kmip_addr		
rgw_crypt_kmip_ca_path		

NAME	A VALUE	R VALUE
rgw_crypt_kmip_client_cert		
rgw_crypt_kmip_client_key		
rgw_crypt_kmip_kms_key_template		
rgw_crypt_kmip_password		
rgw_crypt_kmip_s3_key_template	\$keyid	\$keyid
rgw_crypt_kmip_username		
rgw_crypt_require_ssl	true	true
rgw_crypt_s3_kms_backend	barbican	barbican
rgw_crypt_s3_kms_encryption_keys		
rgw_crypt_sse_s3_backend	vault	vault
rgw_crypt_sse_s3_key_template	%bucket_id	%bucket_id
rgw_crypt_sse_s3_vault_addr		
rgw_crypt_sse_s3_vault_auth	token	token
rgw_crypt_sse_s3_vault_namespace		
rgw_crypt_sse_s3_vault_prefix		
rgw_crypt_sse_s3_vault_secret_engine	transit	transit
rgw_crypt_sse_s3_vault_ssl_cacert		
rgw_crypt_sse_s3_vault_ssl_clientcert		
rgw_crypt_sse_s3_vault_ssl_clientkey		
rgw_crypt_sse_s3_vault_token_file		
rgw_crypt_sse_s3_vault_verify_ssl	true	true
rgw_crypt_suppress_logs	true	true
rgw_crypt_vault_addr		
rgw_crypt_vault_auth	token	token
rgw_crypt_vault_namespace		
rgw_crypt_vault_prefix		
rgw_crypt_vault_secret_engine	transit	transit
rgw_crypt_vault_ssl_cacert		
rgw_crypt_vault_ssl_clientcert		

NAME	A VALUE	R VALUE
rgw_crypt_vault_ssl_clientkey		
rgw_crypt_vault_token_file		
rgw_crypt_vault_verify_ssl	true	true
rgw_curl_buffersize	524288	524288
rgw_curl_low_speed_limit	1024	1024
rgw_curl_low_speed_time	300	300
rgw_curl_wait_timeout_ms	1000	1000
rgw_d3n_l1_datacache_persistent_path	/tmp/rgw_datacache/	/tmp/rgw_datacache/
rgw_d3n_l1_datacache_size	1073741824	1073741824
rgw_d3n_l1_evict_cache_on_start	true	true
rgw_d3n_l1_eviction_policy	lru	lru
rgw_d3n_l1_fadvise	4	4
rgw_d3n_l1_local_datacache_enabled	false	false
rgw_d3n_libaio_aio_num	64	64
rgw_d3n_libaio_aio_threads	20	20
rgw_data	/var/lib/ceph/radosgw/ceph-admin	/var/lib/ceph/radosgw/ceph-admin
rgw_data_log_changes_size	1000	1000
rgw_data_log_num_shards	128	128
rgw_data_log_obj_prefix	data_log	data_log
rgw_data_log_window	30	30
rgw_data_notify_interval_msec	200	200
rgw_debug_inject_olh_cancel_modification_err	false	false
rgw_debug_inject_set_olh_err	0	0
rgw_default_data_log_backing	fifo	fifo
rgw_default_realm_info_oid	default.realm	default.realm
rgw_default_region_info_oid	default.region	default.region
rgw_default_zone_info_oid	default.zone	default.zone
rgw_default_zonegroup_info_oid	default.zonegroup	default.zonegroup
rgw_defer_to_bucket_acls		

NAME	A VALUE	R VALUE
rgw_delete_multi_obj_max_num	1000	1000
rgw_dmclock_admin_lim	0.000000	0.000000
rgw_dmclock_admin_res	100.000000	100.000000
rgw_dmclock_admin_wgt	100.000000	100.000000
rgw_dmclock_auth_lim	0.000000	0.000000
rgw_dmclock_auth_res	200.000000	200.000000
rgw_dmclock_auth_wgt	100.000000	100.000000
rgw_dmclock_data_lim	0.000000	0.000000
rgw_dmclock_data_res	500.000000	500.000000
rgw_dmclock_data_wgt	500.000000	500.000000
rgw_dmclock_metadata_lim	0.000000	0.000000
rgw_dmclock_metadata_res	500.000000	500.000000
rgw_dmclock_metadata_wgt	500.000000	500.000000
rgw_dns_name		
rgw_dns_s3website_name		
rgw_dynamic_resharding	true	true
rgw_enable_apis	s3, s3website, swift, swift_auth, admin, sts, iam, notifications	s3, s3website, swift, swift_auth, admin, sts, iam, notifications
rgw_enable_gc_threads	true	true
rgw_enable_lc_threads	true	true
rgw_enable_ops_log	false	false
rgw_enable_quota_threads	true	true
rgw_enable_static_website	false	false
rgw_enable_usage_log	false	false
rgw_enforce_swift_acls	true	true
rgw_exit_timeout_secs	120	120
rgw_expose_bucket	false	false
rgw_extended_http_attrs		
rgw_frontend_defaults	beast_ssl_certificate=config://rgw/cert/realm/zone.crt ssl_private_key=config://rgw/cert/realm/zone.key	beast_ssl_certificate=config://rgw/cert/realm/zone.crt ssl_private_key=config://rgw/cert/realm/zone.key

NAME	A VALUE	R VALUE
rgw_frontends	beast port=7480	beast port=7480
rgw_gc_max_concurrent_io	10	10
rgw_gc_max_deferred	50	50
rgw_gc_max_deferred_entries_size	3072	3072
rgw_gc_max_objs	32	32
rgw_gc_max_queue_size	134213632	134213632
rgw_gc_max_trim_chunk	16	16
rgw_gc_obj_min_wait	7200	7200
rgw_gc_processor_max_time	3600	3600
rgw_gc_processor_period	3600	3600
rgw_get_obj_max_req_size	4194304	4194304
rgw_get_obj_window_size	16777216	16777216
rgw_healthcheck_disabling_path		
rgw_ignore_get_invalid_range	false	false
rgw_init_timeout	300	300
rgw_inject_notify_timeout_probability	0.000000	0.000000
rgw_keystone_accepted_admin_roles		
rgw_keystone_accepted_roles	Member, admin	Member, admin
rgw_keystone_admin_domain		
rgw_keystone_admin_password		
rgw_keystone_admin_password_path		
rgw_keystone_admin_project		
rgw_keystone_admin_tenant		
rgw_keystone_admin_token		
rgw_keystone_admin_token_path		
rgw_keystone_admin_user		
rgw_keystone_api_version	2	2
rgw_keystone_barbican_domain		
rgw_keystone_barbican_password		

NAME	A VALUE	R VALUE
rgw_keystone_barbican_project		
rgw_keystone_barbican_tenant		
rgw_keystone_barbican_user		
rgw_keystone_implicit_tenants	false	false
rgw_keystone_token_cache_size	10000	10000
rgw_keystone_url		
rgw_keystone_verify_ssl	true	true
rgw_lc_debug_interval	-1	-1
rgw_lc_lock_max_time	90	90
rgw_lc_max_objs	32	32
rgw_lc_max_rules	1000	1000
rgw_lc_max_worker	3	3
rgw_lc_max_wp_worker	3	3
rgw_lc_thread_delay	0	0
rgw_ldap_biniddn	uid=admin,cn=users,dc=example,dc=com	uid=admin,cn=users,dc=example,dc=com
rgw_ldap_dnattr	uid	uid
rgw_ldap_searchdn	cn=users,cn=accounts,dc=example,dc=com	cn=users,cn=accounts,dc=example,dc=com
rgw_ldap_searchfilter		
rgw_ldap_secret	/etc/openldap/secret	/etc/openldap/secret
rgw_ldap_uri	ldaps://<ldap.your.domain>	ldaps://<ldap.your.domain>
rgw_lifecycle_work_time	00:00-06:00	00:00-06:00
rgw_list_bucket_min_readahead	1000	1000
rgw_list_buckets_max_chunk	1000	1000
rgw_log_http_headers		
rgw_log_nonexistent_bucket	false	false
rgw_log_object_name	%Y-%m-%d-%H-%i-%n	%Y-%m-%d-%H-%i-%n
rgw_log_object_name_utc	false	false
rgw_luarocks_location	/tmp/luarocks	/tmp/luarocks
rgw_max_attr_name_len	0	0

NAME	A VALUE	R VALUE
rgw_max_attr_size	0	0
rgw_max_attrs_num_in_req	0	0
rgw_max_chunk_size	4194304	4194304
rgw_max_concurrent_requests	1024	1024
rgw_max_dynamic_shards	1999	1999
rgw_max_listing_results	1000	1000
rgw_max_notify_retries	10	10
rgw_max_objs_per_shard	100000	100000
rgw_max_put_param_size	1048576	1048576
rgw_max_put_size	5368709120	5368709120
rgw_max_slo_entries	1000	1000
rgw_md_log_max_shards	64	64
rgw_md_notify_interval_msec	200	200
rgw_mime_types_file	/etc/mime.types	/etc/mime.types
rgw_mp_lock_max_time	600	600
rgw_multi_obj_del_max_aio	16	16
rgw_multipart_min_part_size	5242880	5242880
rgw_multipart_part_upload_limit	10000	10000
rgw_nfs_fhcache_partitions	3	3
rgw_nfs_fhcache_size	2017	2017
rgw_nfs_lru_lane_hiwat	911	911
rgw_nfs_lru_lanes	5	5
rgw_nfs_max_gc	300	300
rgw_nfs_namespace_expire_secs	300	300
rgw_nfs_run_gc_threads	false	false
rgw_nfs_run_lc_threads	false	false
rgw_nfs_run_quota_threads	false	false
rgw_nfs_run_sync_thread	false	false
rgw_nfs_s3_fast_attrs	false	false

NAME	A VALUE	R VALUE
rgw_nfs_write_completion_interval_s	10	10
rgw_num_async_rados_threads	32	32
rgw_num_control_oids	8	8
rgw_numa_node	-1	-1
rgw_obj_stripe_size	4194304	4194304
rgw_obj_tombstone_cache_size	1000	1000
rgw_objexp_chunk_size	100	100
rgw_objexp_gc_interval	600	600
rgw_objexp_hints_num_shards	127	127
rgw_olh_pending_timeout_sec	3600	3600
rgw_op_thread_suicide_timeout	0	0
rgw_op_thread_timeout	600	600
rgw_op_tracing	false	false
rgw_opa_token		
rgw_opa_url		
rgw_opa_verify_ssl	true	true
rgw_ops_log_data_backlog	5242880	5242880
rgw_ops_log_file_path		
rgw_ops_log_rados	true	true
rgw_ops_log_socket_path		
rgw_override_bucket_index_max_shards	0	0
rgw_period_latest_epoch_info_oid	.latest_epoch	.latest_epoch
rgw_period_push_interval	2.000000	2.000000
rgw_period_push_interval_max	30.000000	30.000000
rgw_period_root_pool	.rgw.root	.rgw.root
rgw_print_continue	true	true
rgw_print_prohibited_content_length	false	false
rgw_put_obj_max_window_size	67108864	67108864
rgw_put_obj_min_window_size	16777216	16777216

NAME	A VALUE	R VALUE
rgw_rados_pool_autoscale_bias	4.000000	4.000000
rgw_rados_pool_recovery_priority	5	5
rgw_rados_tracing	false	false
rgw_realm		
rgw_realm_id		
rgw_realm_root_pool	.rgw.root	.rgw.root
rgw_region		
rgw_region_root_pool	.rgw.root	.rgw.root
rgw_relaxed_region_enforcement	false	false
rgw_relaxed_s3_bucket_names	false	false
rgw_remote_addr_param	REMOTE_ADDR	REMOTE_ADDR
rgw_request_uri		
rgw_reshard_batch_size	64	64
rgw_reshard_bucket_lock_duration	360	360
rgw_reshard_max_aio	128	128
rgw_reshard_num_logs	16	16
rgw_reshard_thread_interval	600	600
rgw_resolve_cname	false	false
rgw_rest_getusage_op_compat	false	false
rgw_run_sync_thread	true	true
rgw_s3_auth_order	sts, external, local	sts, external, local
rgw_s3_auth_use_keystone	false	false
rgw_s3_auth_use_ldap	false	false
rgw_s3_auth_use_rados	true	true
rgw_s3_auth_use_sts	false	false
rgw_s3_client_max_sig_ver	-1	-1
rgw_s3_success_create_obj_status	0	0
rgw_safe_max_objects_per_shard	102400	102400
rgw_scheduler_type	throttler	throttler

NAME	A VALUE	R VALUE
rgw_script_uri		
rgw_service_provider_name		
rgw_shard_warning_threshold	90.000000	90.000000
rgw_sts_client_id		
rgw_sts_client_secret		
rgw_sts_entry	sts	sts
rgw_sts_key	sts	sts
rgw_sts_max_session_duration	43200	43200
rgw_sts_min_session_duration	900	900
rgw_sts_token_introspection_url		
rgw_swift_account_in_url	false	false
rgw_swift_auth_entry	auth	auth
rgw_swift_auth_url		
rgw_swift_custom_header		
rgw_swift_enforce_content_length	false	false
rgw_swift_need_stats	true	true
rgw_swift_tenant_name		
rgw_swift_token_expiration	86400	86400
rgw_swift_url		
rgw_swift_url_prefix	swift	swift
rgw_swift_versioning_enabled	false	false
rgw_sync_data_inject_err_probability	0.000000	0.000000
rgw_sync_lease_period	120	120
rgw_sync_log_trim_concurrent_buckets	4	4
rgw_sync_log_trim_interval	1200	1200
rgw_sync_log_trim_max_buckets	16	16
rgw_sync_log_trim_min_cold_buckets	4	4
rgw_sync_meta_inject_err_probability	0.000000	0.000000
rgw_sync_obj_etag_verify	false	false

NAME	A VALUE	R VALUE
rgw_sync_trace_history_size	4096	4096
rgw_sync_trace_per_node_log_size	32	32
rgw_sync_trace_servicemap_update_interval	10	10
rgw_thread_pool_size	512	512
rgw_torrent_comment		
rgw_torrent_createby		
rgw_torrent_encoding		
rgw_torrent_flag	false	false
rgw_torrent_origin		
rgw_torrent_sha_unit	524288	524288
rgw_torrent_tracker		
rgw_trust_forwarded_https	false	false
rgw_usage_log_flush_threshold	1024	1024
rgw_usage_log_tick_interval	30	30
rgw_usage_max_shards	32	32
rgw_usage_max_user_shards	1	1
rgw_use_opa_authz	false	false
rgw_user_default_quota_max_objects	-1	-1
rgw_user_default_quota_max_size	-1	-1
rgw_user_max_buckets	1000	1000
rgw_user_quota_bucket_sync_interval	180	180
rgw_user_quota_sync_idle_users	false	false
rgw_user_quota_sync_interval	86400	86400
rgw_user_quota_sync_wait_time	86400	86400
rgw_user_unique_email	true	true
rgw_verify_ssl	true	true
rgw_website_routing_rules_max_num	50	50
rgw_zone		
rgw_zone_id		

NAME	A VALUE	R VALUE
rgw_zone_root_pool	.rgw.root	.rgw.root
rgw_zonegroup		
rgw_zonegroup_id		
rgw_zonegroup_root_pool	.rgw.root	.rgw.root
rocksdb_block_size	4096	4096
rocksdb_bloom_bits_per_key	20	20
rocksdb_cache_index_and_filter_blocks	true	true
rocksdb_cache_index_and_filter_blocks_with_high_priority	false	false
rocksdb_cache_row_ratio	0.000000	0.000000
rocksdb_cache_shard_bits	4	4
rocksdb_cache_size	536870912	536870912
rocksdb_cache_type	binned_lru	binned_lru
rocksdb_cf_compact_on_deletion	true	true
rocksdb_cf_compact_on_deletion_sliding_window	32768	32768
rocksdb_cf_compact_on_deletion_trigger	16384	16384
rocksdb_collect_compaction_stats	false	false
rocksdb_collect_extended_stats	false	false
rocksdb_collect_memory_stats	false	false
rocksdb_delete_range_threshold	1048576	1048576
rocksdb_index_type	binary_search	binary_search
rocksdb_log_to_ceph_log	true	true
rocksdb_metadata_block_size	4096	4096
rocksdb_partition_filters	false	false
rocksdb_perf	false	false
rocksdb_pin_l0_filter_and_index_blocks_in_cache	false	false
rotating_keys_bootstrap_timeout	30	30
rotating_keys_renewal_timeout	10	10
run_dir	/var/run/ceph	/var/run/ceph

NAME	A VALUE	R VALUE
seastore_block_create	true	true
seastore_cache_lru_size	67108864	67108864
seastore_default_max_object_size	16777216	16777216
seastore_default_object_metadata_reservation	16777216	16777216
seastore_device_size	107374182400	107374182400
seastore_init_rewrite_segments_num_per_device	6	6
seastore_journal_batch_capacity	16	16
seastore_journal_batch_flush_size	16777216	16777216
seastore_journal_batch_preferred_fullness	0.950000	0.950000
seastore_journal_iodepth_limit	5	5
seastore_segment_size	67108864	67108864
setgroup		
setuser		
setuser_match_path		
target_max_misplaced_ratio	0.050000	0.050000
thp	false	false
threadpool_default_timeout	60	60
threadpool_empty_queue_max_wait	2	2
throttler_perf_counter	true	true