Red Hat OpenStack Platform 10

Overcloud Parameters

Parameters for customizing the core template collection for a Red Hat OpenStack Platform overcloud

Last Updated: 2019-03-05

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Abstract

This guide provides parameters for customizing the overcloud in Red Hat OpenStack Platform. Use this guide in conjunction with the Advanced Overcloud Customization guide.

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CHAPTER 1. CORE OVERCLOUD PARAMETERS

Parameter	Description
CloudDomain	The DNS domain used for the hosts. This should match the **dhcp_domain** configured in the undercloud. The default value is: **localdomain**
CloudName	The DNS name of this cloud. The default value is: **overcloud.localdomain**
CloudNameCtlplane	The DNS name of this cloud's control plane endpoint. The default value is: **overcloud.ctlplane.localdomain**
CloudNameInternal	The DNS name of this cloud's internal API endpoint. The default value is: **overcloud.internalapi.localdomain**
CloudNameStorage	The DNS name of this cloud's storage endpoint. E.g. *ci-overcloud.storage.tripleo.org*. The default value is: **overcloud.storage.localdomain**
CloudNameStorageManagement	The DNS name of this cloud's storage management endpoint. The default value is: **overcloud.storagemgmt.localdomain**
ControlFixedIPs	Defines a fixed VIP for the Control Plane. Value uses the following format: **[{ip_address:'1.2.3.4'}]**
DeployIdentifier	Setting this to a unique value will re-run any deployment tasks that perform configuration on a Heat **stack-update**.
HypervisorNeutronPhysicalBridge	An Open vSwitch bridge to create on each hypervisor. This defaults to **br-ex**, which is the same as the control plane nodes. This ensures uniform configuration of the Open vSwitch agent. Typically should not need to be changed. The default value is: **br-ex**
HypervisorNeutronPublicInterface	What interface to add to the **HypervisorNeutronPhysicalBridge**. The default value is: **nic1**
InternalApiVirtualFixedIPs	Control the IP allocation for the InternalApiVirtualInterface port. Value uses the following format: **[{ip_address:'1.2.3.4'}]**

Parameter	Description
NeutronControlPlaneID	ID or name for Control Plane ctlplane network. The default value is: **ctlplane**
NeutronPublicInterface	The interface to attach to the external bridge. The default value is: **nic1**
PublicVirtualFixedIPs	Control the IP allocation for the PublicVirtualInterface port. Value uses the following format: **[{ip_address:'1.2.3.4'}]**
RabbitCookieSalt	Salt for the RabbitMQ cookie. Change to force the randomly generated RabbitMQ cookie to change. The default value is: **unset**
RedisVirtualFixedIPs	Control the IP allocation for the virtual IP used by Redis. Value uses the following format: **[{ip_address:'1.2.3.4'}]**
ServerMetadata	Extra properties or metadata passed to Nova for the created nodes in the overcloud. Accessible through the Nova metadata API.
StorageMgmtVirtualFixedIPs	Control the IP allocation for the StorageMgmgVirtualInterface port. Value uses the following format: **[{ip_address:'1.2.3.4'}]**
StorageVirtualFixedIPs	Control the IP allocation for the StorageVirtualInterface port. Value uses the following format: **[{ip_address:'1.2.3.4'}]**
UpdateIdentifier	Set to a previously unused value during **stack-update** triggers package update on all nodes.

CHAPTER 2. ROLE-BASED PARAMETERS

Substitute **_ROLE_** with the name of the role. For example, for **_ROLE_Count** use **ControllerCount**.

Parameter	Description
_ROLE_Count	The number of nodes to deploy in a role.
_ROLE_HostnameFormat	Format for node hostnames. Note that **%index%** is translated into the index of the node (e.g 0/1/2) and **%stackname%** is replaced with the stack name (e.g **overcloud**). The default value is: **%stackname%-_ROLE_-%index%**
_ROLE_RemovalPolicies	List of resources to be removed from the role's **ResourceGroup** when doing an update that requires removal of specific resources.
_ROLE_SchedulerHints	Optional scheduler hints to pass to OpenStack Compute (nova).
_ROLE_Services	A list of service resources (configured in the OpenStack Orchestration (heat) resource_registry) which represent nested stacks for each service that should get installed on the *ROLE* role.

CHAPTER 3. CEPH STORAGE PARAMETERS

Parameter	Description
CephAdminKey	The Ceph admin client key. Can be created with: **ceph-authtool --gen-print-key**
CephClientKey	The Ceph client key. Currently only used for external Ceph deployments to create the openstack user keyring. Can be created with: **ceph-authtool --gen-print-key**
CephClusterFSID	The Ceph cluster FSID. Must be a UUID.
CephIPv6	Enables Ceph daemons to bind to IPv6 addresses. The default is: **false**
CephMonKey	The Ceph monitors key. Can be created with: **ceph-authtool --gen-print-key**
CephPoolDefaultSize	Default minimum replication for RBD copies. The default value is: **3**
CephPools	Override settings for one of the predefined pools or to create additional ones. Example: **{ "volumes": { "size": 5, "pg_num": 128, "pgp_num": 128 } }**
CinderBackupRbdPoolName	Pool to use if Block Storage (cinder) Backup is enabled. The default is: **backups**
CinderRbdPoolName	Pool to use for Block Storage (cinder) service. The default is: **volumes**
ControllerEnableCephStorage	Whether to deploy Ceph Storage (OSD) on the Controller. The default value is: **False**
GlanceBackend	The short name of the Glance backend to use. Set to **rbd** to use Ceph Storage.`
GlanceRbdPoolName	Pool to use for Image Storage (glance) service. The default is: **images**
GnocchiRbdPoolName	Pool to use for Telemetry storage. The default is: **metrics**
NovaEnableRbdBackend	Whether to enable the Ceph backend for Compute (nova). The default value is: **False**

Parameter	Description
NovaRbdPoolName	Pool to use for Compute storage. The default is: **vms**

CHAPTER 4. CEPH RADOSGW PARAMETERS

Parameter	Description
CephRgwKey	The cephx key for the radosgw client. Can be created with: **ceph-authtool --gen-print-key**

CHAPTER 5. BLOCK STORAGE (CINDER) PARAMETERS

Parameter	Description
CinderCronDbPurgeAge	Cron to move deleted instances to another table - Age. The default value is: **30**
CinderCronDbPurgeDestination	Cron to move deleted instances to another table - Log destination. The default value is: **/var/log/cinder/cinder-rowsflush.log**
CinderCronDbPurgeHour	Cron to move deleted instances to another table - Hour. The default value is: **0**
CinderCronDbPurgeMinute	Cron to move deleted instances to another table - Minute. The default value is: **1**
CinderCronDbPurgeMonth	Cron to move deleted instances to another table - Month. The default value is: **"*"**
CinderCronDbPurgeMonthday	Cron to move deleted instances to another table - Month Day. The default value is: **"*"**
CinderCronDbPurgeUser	Cron to move deleted instances to another table - User. The default value is: **cinder**
CinderCronDbPurgeWeekday	Cron to move deleted instances to another table - Week Day. The default value is: **"*"**
CinderEnableDBPurge	Whether to create cron job for purging soft deleted rows in OpenStack Block Storage (cinder) database. The default value is: **True**
CinderPassword	The password for the cinder service account, used by cinder-api.
NovaPassword	The password for the OpenStack Compute (nova) service and db account.

CHAPTER 6. IMAGE STORAGE (GLANCE) PARAMETERS

Parameter	Description
GlanceBackend	The short name of the backend to use. Should be one of **swift**, **rbd**, or **file**. The default value is: **swift**
GlanceLogFile	The filepath of the file to use for logging messages from OpenStack Image Storage (glance).
GlanceNfsEnabled	When using **GlanceBackend: file**, mount NFS share for image storage. The default value is: **False**
GlanceNfsOptions	NFS mount options for image storage when **GlanceNfsEnabled** is true. The default value is: **intr,context=system_u:object_r:glance_var_lib_t:s0**
GlanceNfsShare	NFS share to mount for image storage when **GlanceNfsEnabled** is true.
GlanceNotifierStrategy	Strategy to use for OpenStack Image Storage (glance) notification queue. The default value is: **noop**
GlancePassword	The password for the image storage service and database account.
GlanceWorkers	Set the number of workers for the image storage service. The default value is equal to the number of CPU cores on the node. Note that more workers creates a larger number of processes on systems, which results in excess memory consumption. It is recommended to choose a suitable non-default value on systems with high CPU core counts.

CHAPTER 7. ORCHESTRATION (HEAT) PARAMETERS

Parameter	Description
HeatAuthEncryptionKey	Auth encryption key for heat-engine.
HeatEnableDBPurge	Whether to create cron job for purging soft deleted rows in the OpenStack Orchestration (heat) database. The default value is: **True**
HeatPassword	The password for the Orchestration service and database account.
HeatStackDomainAdminPassword	The admin password for the OpenStack Orchestration (heat) domain in OpenStack Identity (keystone).
HeatWorkers	Number of workers for Heat service. The default value is: 0. Note that more workers creates a larger number of processes on systems, which results in excess memory consumption. It is recommended to choose a suitable non-default value on systems with high CPU core counts.

CHAPTER 8. DASHBOARD (HORIZON) PARAMETERS

Parameter	Description
HorizonAllowedHosts	A list of IP/Hostname allowed to connect to horizon. The default value is: *
HorizonCustomizationModule	OpenStack Dashboard (horizon) has a global overrides mechanism available to perform customizations.
HorizonSecret	Secret key for the webserver.
HorizonVhostExtraParams	Extra parameters for OpenStack Dashboard (horizon) vhost configuration. The default value is: **{'priority': 10, 'access_log_format': '%a %l %u %t \\"%r\\" %>s %b \\"%%{} {Referer}i\\" \\"%%{}{User-Agent}i\\"', 'add_listen': False}**
MemcachedIPv6	Enable IPv6 features in Memcached. The default value is: **False**
NeutronMechanismDrivers	The mechanism drivers for the OpenStack Networking (neutron) tenant network. The default value is: **openvswitch**

CHAPTER 9. BARE METAL (IRONIC) PARAMETERS

Parameter	Description
IronicCleaningDiskErase	Type of disk cleaning before and between deployments. **full** for full cleaning. **metadata** to clean only disk metadata (partition table). The default value is: **full**
IronicEnabledDrivers	Enabled OpenStack Bare Metal (ironic) drivers. The default value is: **['pxe_ipmitool', 'pxe_drac', 'pxe_ilo']**
IronicIPXEEnabled	Whether to use iPXE instead of PXE for deployment. The default value is: **True**
IronicIPXEPort	Port to use for serving images when iPXE is used. The default value is: **8088**
IronicPassword	The password for the Bare Metal service and database account.

CHAPTER 10. IDENTITY (KEYSTONE) PARAMETERS

Parameter	Description
AdminEmail	The email for the OpenStack Identity (keystone) admin account. The default value is: **admin@example.com**
AdminPassword	The password for the OpenStack Identity (keystone) admin account.
AdminToken	The OpenStack Identity (keystone) secret and database password.
KeystoneCredential0	The first OpenStack Identity (keystone) credential key. Must be a valid key.
KeystoneCredential1	The second OpenStack Identity (keystone) credential key. Must be a valid key.
KeystoneCronTokenFlushDestination	Cron to purge expired tokens - Log destination. The default value is: **/var/log/keystone/keystone-tokenflush.log**
KeystoneCronTokenFlushEnsure	Cron to purge expired tokens - Ensure. The default value is: **present**
KeystoneCronTokenFlushHour	Cron to purge expired tokens - Hour. The default value is: *****
KeystoneCronTokenFlushMaxDelay	Cron to purge expired tokens - Max Delay. The default value is: **0**
KeystoneCronTokenFlushMinute	Cron to purge expired tokens - Minute. The default value is: **1**
KeystoneCronTokenFlushMonth	Cron to purge expired tokens - Month. The default value is: *****
KeystoneCronTokenFlushMonthday	Cron to purge expired tokens - Month Day. The default value is: *****
KeystoneCronTokenFlushUser	Cron to purge expired tokens - User. The default value is: **keystone**
KeystoneCronTokenFlushWeekday	Cron to purge expired tokens - Week Day. The default value is: *****

Parameter	Description
KeystoneEnableDBPurge	Whether to create cron job for purging soft deleted rows in OpenStack Identity (keystone) database. The default value is: **True**
KeystoneNotificationDriver	Comma-separated list of Oslo notification drivers used by Keystone. The default value is: **['messaging']**
KeystoneNotificationFormat	The OpenStack Identity (keystone) notification format. The default value is: **basic**
KeystoneSSLCertificate	Keystone certificate for verifying token validity.
KeystoneSSLCertificateKey	Keystone key for signing tokens.
KeystoneWorkers	Set the number of workers for the OpenStack Identity (keystone) service. The default value is equal to the number of CPU cores on the node. Note that more workers creates a larger number of processes on systems, which results in excess memory consumption. It is recommended to choose a suitable non-default value on systems with high CPU core counts.

CHAPTER 11. SHARED FILE SERVICE (MANILA) PARAMETERS

Parameter	Description
`ManilaPassword`	The password for the shared file service account.

CHAPTER 12. NETWORKING (NEUTRON) PARAMETERS

Parameter	Description
EnableConfigPurge	Remove configuration that is not generated by the director. Used to avoid configuration remnants after upgrades. The default value is: **False**
NeutronAgentExtensions	Comma-separated list of extensions enabled for the OpenStack Networking (neutron) agents. The default value is: **qos**
NeutronAllowL3AgentFailover	Allow automatic l3-agent failover. The default value is: **True**
NeutronBridgeMappings	The logical to physical bridge mappings to use. The default (**datacentre:br-ex**) maps **br-ex** (the external bridge on hosts) to a physical name **datacentre**, which provider networks can use (for example, the default floating network). If changing this, either use different post-install network scripts or be sure to keep **datacentre** as a mapping network name.
NeutronCorePlugin	The core plugin for networking. The value should be the entrypoint to be loaded from **neutron.core_plugins** namespace. The default value is: **ml2**
NeutronDBSyncExtraParams	String of extra command line parameters to append to the **neutron-db-manage upgrade head** command.
NeutronDhcpAgentsPerNetwork	The number of DHCP agents to schedule per network. The default value is: **0**
NeutronEnableARPResponder	Enable ARP responder feature in the OVS Agent. The default value is: **False**
NeutronEnableDVR	Enable Distributed Virtual Router. The default value is: **False**
NeutronEnableForceMetadata	If True, DHCP always provides metadata route to VM. The default value is: **False**
NeutronEnableIsolatedMetadata	If True, DHCP allows metadata support on isolated networks. The default value is: **False**

Parameter	Description
NeutronEnableL2Pop	Enable/disable the L2 population feature in the OpenStack Networking (neutron) agents. The default value is: **False**
NeutronEnableMetadataNetwork	If True, DHCP provides metadata network. Requires either **NeutronEnableIsolatedMetadata** or **NeutronEnableForceMetadata** parameters to also be True. The default value is: **False**
NeutronExternalNetworkBridge	Name of bridge used for external network traffic. The default value is: **br-ex**
NeutronFirewallDriver	Firewall driver for realizing OpenStack Networking (neutron) security group function. The default value is: **openvswitch**
NeutronFlatNetworks	Sets the flat network name to configure in plugins. The default value is: **datacentre**
NeutronGlobalPhysnetMtu	MTU of the underlying physical network. OpenStack Networking (neutron) uses this value to calculate MTU for all virtual network components. For flat and VLAN networks, OpenStack Networking uses this value without modification. For overlay networks such as VXLAN, OpenStack Networking automatically subtracts the overlay protocol overhead from this value. The default value is: **1500**
NeutronL3AgentMode	Agent mode for L3 agent. Must be **legacy** or **dvr_snat**. The default value is: **legacy**
NeutronMechanismDrivers	The mechanism drivers for the tenant network. The default value is: **openvswitch**
NeutronMetadataProxySharedSecret	Shared secret to prevent spoofing.
NeutronNetworkType	The tenant network type. The default value is: **vxlan**
NeutronNetworkVLANRanges	The Neutron ML2 and Open vSwitch VLAN mapping range to support. Defaults to permitting any VLAN on the **datacentre** physical network (See **NeutronBridgeMappings**). The default value is: **datacentre:1:1000**

Parameter	Description
NeutronOVSFirewallDriver	Configure the classname of the firewall driver to use for implementing security groups. Possible values depend on system configuration. Some examples are: **noop**, **openvswitch**, **iptables_hybrid**. The default value of an empty string results in a default supported configuration.
NeutronPassword	The password for the OpenStack Networking (neutron) service and database account.
NeutronPluginExtensions	Comma-separated list of enabled extension plugins. The default value is: **qos,port_security**
NeutronServicePlugins	Comma-separated list of service plugin entrypoints. The default value is: **router,qos,trunk**
NeutronSupportedPCIVendorDevs	List of supported pci vendor devices in the format VendorID:ProductID. By default Intel & Mellanox SR-IOV capable NICs are supported. The default value is: **['15b3:1004', '8086:10ca']**
NeutronTunnelIdRanges	Comma-separated list of <tun_min>:<tun_max> tuples enumerating ranges of GRE tunnel IDs that are available for tenant network allocation. The default value is: **['1:4094']**
NeutronTunnelTypes	The tunnel types for the tenant network. The default value is: **vxlan**
NeutronTypeDrivers	Comma-separated list of network type driver entrypoints to be loaded. The default value is: **vxlan,vlan,flat,gre**
NeutronVniRanges	Comma-separated list of <vni_min>:<vni_max> tuples enumerating ranges of VXLAN VNI IDs that are available for tenant network allocation. The default value is: **['1:4094']**
NeutronWorkers	Sets the number of API and RPC workers for the OpenStack Networking service. The default value is equal to the number of CPU cores on the node. Note that more workers creates a larger number of processes on systems, which results in excess memory consumption. It is recommended to choose a suitable non-default value on systems with high CPU core counts.

CHAPTER 13. COMPUTE (NOVA) PARAMETERS

Parameter	Description
EnableConfigPurge	Remove configuration that is not generated by the director. Used to avoid configuration remnants after upgrades. The default value is: **False**
InstanceNameTemplate	Template string to be used to generate instance names. The default value is: **instance-%08x**
MigrationSshKey	SSH key for migration. Expects a dictionary with keys *public_key* and *private_key*. Values should be identical to SSH public/private key files.
NeutronMetadataProxySharedSecret	Shared secret to prevent spoofing.
NovaComputeLibvirtType	Libvirt domain type. Defaults to *kvm*.
NovaComputeLibvirtVifDriver	Libvirt VIF driver configuration for the network.
NovaEnableDBPurge	Whether to create cron job for purging soft deleted rows in OpenStack Compute (nova) database. The default value is: **True**
NovaIPv6	Enable IPv6 features for OpenStack Compute (nova). The default is: **false**
NovaLibvirtRxQueueSize	Virtio-net RX queue size. Valid values are 256, 512, 1024. The default value is: **512**
NovaLibvirtTxQueueSize	Virtio-net TX queue size. Valid values are 256, 512, 1024. The default value is: **512**
NovaOVSBridge	Name of integration bridge used by Open vSwitch. The default value is: **br-int**
NovaPCIPassthrough	YAML list of PCI passthrough whitelist parameters.
NovaPassword	The password for the OpenStack Compute (nova) service and database account.
NovaReservedHostMemory	Reserved RAM for host processes. The default value is: **2048**
NovaSchedulerAvailableFilters	List of available filters for OpenStack Compute (nova) to use to filter nodes.

Parameter	Description
NovaSchedulerDefaultFilters	An array of filters OpenStack Compute (nova) uses to filter a node. OpenStack Compute applies these filters in the order they are listed. Place your most restrictive filters first to make the filtering process more efficient.
NovaVcpuPinSet	A list or range of physical CPU cores to reserve for virtual machine processes. For example, **NovaVcpuPinSet: [4-12,^8]** reserves cores from 4-12 excluding 8.
NovaWorkers	Number of workers for the Compute's Conductor service. The default value is: **0**. Note that more workers creates a larger number of processes on systems, which results in excess memory consumption.
UpgradeLevelNovaCompute	OpenStack Compute upgrade level. The default value is: **auto**

CHAPTER 14. CLUSTERING (SAHARA) PARAMETERS

Parameter	Description
`SaharaPassword`	The password for the clusting service and database account.
`SaharaWorkers`	Set the number of workers for the clustering service. The default value is: `0`. Note that more workers creates a larger number of processes on systems, which results in excess memory consumption. It is recommended to choose a suitable non-default value on systems with high CPU core counts.

CHAPTER 15. OBJECT STORAGE (SWIFT) PARAMETERS

Parameter	Description
ControllerEnableSwiftStorage	Whether to enable object storage on Controller nodes. The default value is: **True**
SwiftCeilometerIgnoreProjects	Comma-separated list of project names to ignore. The default value is: **['service']**
SwiftHashSuffix	A random string to be used as a salt when hashing to determine mappings in the ring.
SwiftMinPartHours	The minimum time (in hours) before a partition in a ring can be moved following a rebalance. The default value is: **1**
SwiftMountCheck	Check if the devices are mounted to prevent accidentally writing to the root device. The default value is: **False**
SwiftPartPower	Partition power to use when building object storage rings. The default value is: **10**
SwiftPassword	The password for the object storage service account.
SwiftProxyNodeTimeout	Timeout for requests going from **swift-proxy** to account, container, and object services. The default value is: **60**
SwiftRawDisks	Additional raw devices to use for the object storage backend. For example: **{sdb: {}}**
SwiftReplicas	Number of replicas to use in the object storage rings. The default value is: **3**
SwiftRingBuild	Whether to manage object storage rings or not. The default value is: **True**
SwiftRingGetTempurl	A temporary OpenStack Object Storage (swift) URL to download rings from.
SwiftRingPutTempurl	A temporary OpenStack Object Storage (swift) URL to upload rings to.
SwiftUseLocalDir	Use a local directory for object storage services when building rings. The default value is: **True**

Parameter	Description
`SwiftWorkers`	Number of workers for object storage service. The default value is: `0`. Note that more workers creates a larger number of processes on systems, which results in excess memory consumption. It is recommended to choose a suitable non-default value on systems with high CPU core counts.

CHAPTER 16. TELEMETRY (CEILOMETER, GNOCCHI, AODH) PARAMETERS

Parameter	Description
AodhPassword	The password for the OpenStack Telemetry Alarming (aodh) services.
CeilometerBackend	The Telemetry backend type. The default value is: **mongodb**
CeilometerEventDispatcher	Comma-separated list of Dispatchers to process events data. The default value is: **['gnocchi', 'database']**
CeilometerEventsTTL	Number of seconds before database can expire the events data. The default value is: **-1**
CeilometerMeterDispatcher	Dispatcher to process meter data. The default value is: **gnocchi**
CeilometerMeteringSecret	Secret shared by the Telemetry services.
CeilometerPassword	The password for the Telemetry service account.
CeilometerStoreEvents	Whether to store events in ceilometer. The default value is: **False**
CeilometerWorkers	Number of workers for the Telemetry service. The default value is: **0**. Note that more workers creates a larger number of processes on systems, which results in excess memory consumption. It is recommended to choose a suitable non-default value on systems with high CPU core counts.
EnableCombinationAlarms	Combination alarms are deprecated in Newton, hence disabled by default. To enable, set this parameter to true. The default value is: **False**
GnocchiBackend	The short name of the OpenStack Telemetry Metrics (gnocchi) backend to use. Should be one of **swift**, **rbd**, or **file**. The default value is: **swift**
GnocchiFileBasePath	Path to use when file driver is used. This could be NFS or a flat file. The default value is: **/var/lib/gnocchi**

Parameter	Description
GnocchiIndexerBackend	The short name of the OpenStack Telemetry Metrics (gnocchi) indexer backend to use. The default value is: **mysql**
GnocchiMetricdWorkers	Number of workers for OpenStack Telemetry Metrics (gnocchi). The default value is equal to the number of CPU cores on the node. Note that more workers creates a larger number of processes on systems, which results in excess memory consumption. It is recommended to choose a suitable non-default value on systems with high CPU core counts.
GnocchiPassword	The password for the OpenStack Telemetry Metrics (gnocchi) service and database account.
MetricProcessingDelay	Delay between processing metrics. The default value is: **30**
MongoDbIPv6	Enable IPv6 if MongoDB VIP is IPv6. The default value is: **False**
MongoDbNoJournal	Should MongoDb journaling be disabled. The default value is: **False**

CHAPTER 17. TIME PARAMETERS

Parameter	Description
NtpServer	NTP servers list. The default value is: **['pool.ntp.org']**
TimeZone	The timezone to be set on the overcloud. The default value is: **UTC**

CHAPTER 18. DEPRECATED PARAMETERS FROM THE PREVIOUS VERSION

appendix

The following parameters are deprecated from the previous version of Red Hat OpenStack Platform. In most cases, new parameters specific to composable services have replaced these deprecated parameters.

Parameter	Description
CeilometerComputeAgent	Indicates whether the Compute agent is present and expects **nova-compute** to be configured accordingly.
CinderBackendConfig	Contains parameters to configure OpenStack Block Storage (cinder) backends.
CinderWorkers	Number of workers for OpenStack Block Storage (cinder) service. The default value is: **0**
EnableCephStorage	Whether to deploy Ceph Storage (OSD) on the Controller. The default value is: **False**
EnableSwiftStorage	Whether to enable OpenStack Object Storage (swift) on the Controller. The default value is: **True**
HashSuffix	A random string to be used as a salt when hashing to determine mappings in the OpenStack Object Storage (swift) ring.
InotifyInstancesMax	Configures **sysctl fs.inotify.max_user_instances** key. The default value is: **1024**
KeystoneCACertificate	OpenStack Identity (keystone) self-signed certificate authority certificate.
KeystoneSigningCertificate	OpenStack Identity (keystone) certificate for verifying token validity.
KeystoneSigningKey	OpenStack Identity (keystone) key for signing tokens.
MinPartHours	The minimum time (in hours) before a partition in a ring can be moved following a rebalance. The default value is: **1**
MountCheck	Value of **mount_check** in OpenStack Object Storage (swift) account, container, and object configuration. The default value is: **false**

Parameter	Description
MysqlClusterUniquePart	A unique identifier of the MySQL cluster the controller is in. The default value is: **unset**
MysqlInnodbBufferPoolSize	Specifies the size of the buffer pool in megabytes. Setting to zero should be interpreted as "no value" and will defer to the lower level default. The default value is: **0**
NeutronAgentMode	Agent mode for the **neutron-l3-agent** on the controller hosts. The default value is: **dvr_snat**
NeutronComputeAgentMode	Agent mode for the **neutron-l3-agent** on the compute hosts. The default value is: **dvr**
NeutronDVR	Whether to configure OpenStack Networking (neutron) Distributed Virtual Routers. The default value is: **False**
NeutronDnsmasqOptions	Allows configuration options to be passed to the **dnsmasq** instances used by the OpenStack Networking (neutron) DHCP agent. For OpenStack Platform 9 and later releases, providing MTU overrides through the **NeutronDnsmasqOptions** is not recommended as OpenStack Networking (neutron) will provide MTU values to guests based on the tenant network they are connected to and automatically consider tenant network overhead in this value (e.g. GRE and VXLAN overhead).
NeutronEnableDHCPAgent	Option to enable/disable DHCP Agent. The default value is: **True**
NeutronEnableL3Agent	Option to enable/disable L3 agent. The default value is: **True**
NeutronEnableMetadataAgent	Option to enable/disable Metadata agent. The default value is: **True**
NeutronEnableOVSAgent	Option to enable/disable OVS Agent. The default value is: **True**
NeutronEnableTunnelling	Option to enable/disable tunnelling in OpenStack Networking (neutron).
NeutronPublicInterfaceDefaultRoute	A custom default route for the NeutronPublicInterface.

Parameter	Description
NeutronPublicInterfaceIP	A custom IP address to put onto the NeutronPublicInterface.
NeutronPublicInterfaceRawDevice	If set, the public interface is a VLAN with this device as the raw device.
NeutronPublicInterfaceTag	VLAN tag for creating a public VLAN. The tag will be used to create an access port on the exterior bridge for each control plane node, and that port will be given the IP address returned by OpenStack Networking (neutron) from the public network.
NeutronTenantMtu	This value sets the OpenStack Networking (neutron) **path_mtu** configuration option. For OpenStack Platform 9 and later releases, if left empty or set to 0, OpenStack Networking (neutron) uses the value defined for **global_physnet_mtu** as the maximum MTU for tenant network traffic (which currently defaults to 1500). OpenStack Networking (neutron) also automatically adjusts the MTU used for guests for tenant network types that add overhead (e.g. GRE and VXLAN).
NovaComputeDriver	The OpenStack Compute (nova) driver to use. The default is: **libvirt.LibvirtDriver**
NovaComputeLibvirtDisableTcp	SSH migration has replaced this option. See https://access.redhat.com/solutions/3022771 for additional details. The default value is: **False**
NovaPublicIP	Public IP address to pass to OpenStack Compute (nova).
NovaSecurityGroupAPI	The full class name of the security API class. The default value is: **neutron**
PartPower	Partition Power to use when building OpenStack Object Storage (swift) rings. The default value is: **10**
Replicas	How many replicas to use in the OpenStack Object Storage (swift) rings. The default value is: **3**
RingBuild	Whether to manage OpenStack Object Storage (swift) rings or not. The default value is: **True**
SchedulerHints	Optional scheduler hints to pass to nova.

Parameter	Description
`SnmpdConfigOverride`	An array of SNMP config.