

Category	API	Parameters	Optional	FusionSphere Support	Hybrid Cloud Support	Solution
API versions	List API versions					
	Show API version details			N	Y	List/show operations could be supported if Create is implemented.
API extensions (extensions)	List API extensions			N	Y	
Limits (limits)	Show absolute limits			N	Y	DB, check quotas.
Volumes (volumes)	Create volume	tenant_id	N	Y	Y	Create empty disk.  Snapshot>source_volid>source_replica>imageRef
		availability_zone	Y	Y	Y	
		source_volid	Y	Y	Y	Attach source/dest volume, copy
		description	Y	Y	Y	
		multiattach	Y	N	N	Attach at most one
		snapshot_id	Y	Y	Y	
		size	N	Y	Y	Size>snapshot_size>source_volid_size>source replica
		name	Y	Y	Y	
		imageRef	Y	Y	Y	Copy into volume.
		volume_type	Y	N	Y	multiple-storage back ends
		metadata	Y	N	Y	DB
		source_replica	Y	N	N	replicated (secondary) volume?
		consistencygroup_id	Y	N	N	
	List volumes	tenant_id	N	Y	Y	
		sort	Y	Y	Y	
		limit	Y	Y	Y	
		marker	Y	Y	Y	
	List volumes (detailed)	tenant_id	N	Y	Y	
		sort	Y	Y	Y	
		limit	Y	Y	Y	
		marker	Y	Y	Y	
	Show volume information	tenant_id	N	Y	Y	
		volume_id	N	Y	Y	
	Update volume	tenant_id	N	N	Y	DB only: "name", "description", "metadata".
		volume_id	N	N	Y	
		name	Y	N	Y	
		description	Y	N	Y	
		metadata	Y	N	Y	

		availability_zone	Y	N	N	
		source_valid	Y	N	N	
		multiattach	Y	N	N	
		snapshot_id	Y	N	N	
		size	Y	N	N	
		imageRef	Y	N	N	
		volume_type	Y	N	N	
		source_replica	Y	N	N	
		consistencygroup_id	Y	N	N	
	Delete volume	tenant_id	N	Y	Y	
		volume_id	N	N	Y	
Volume type access (volumes)	Create private volume	tenant_id	N	N	Y?	
Volume actions (volumes, action)	Extend volume			N	N	vCloud doesn't support
	Reset volume statuses	tenant_id	N	N	Y	DB only
		volume_id	N	N	Y	
		status	Y	N	Y	
		attach_status	Y	N	Y	
		migration_statuses	Y	N	Y	
	Set image metadata for volume	tenant_id	N	N	Y	DB only
		volume_id	N	N	Y	
		metadata	N	N	Y	
	Remove image metadata from volume	tenant_id	N	N	Y	DB only
		volume_id	N	N	Y	
		key	N	N	Y	metadata key to be removed
	Attach volume	tenant_id	N	Y	Y	vCloud vm disk/attach
		volume_id	N	Y	Y	
		instance_uuid	Y	Y	Y	
		host_name	Y	Y	Y	
		mountpoint	Y	Y	Y	
Backups (backups)	Create backup	tenant_id		Y	Y	vCloud volume download/upload.
		name	N		Y	
		volume_id	Y		Y	
		container	N		Y	
		description	Y		Y	
		incremental	Y	?	N	The backup mode. True for incremental backup mode, False for full backup
	List backups	tenant_id	N	Y	Y	
		sort_key	N	Y	Y	
		sort_dir	Y	Y	Y	
		limit	Y	Y	Y	
		marker	Y	Y	Y	
	List backups (detailed)	tenant_id	N	Y	Y	
		sort_key	Y	Y	Y	
		sort_dir	Y	Y	Y	
		limit	Y	Y	Y	
		marker	Y	Y	Y	

	Show backup details	tenant_id	N	Y	Y	
		backup_id	N	Y	Y	
		sort key	N	Y	Y	
		sort dir	Y	Y	Y	
		limit	Y	Y	Y	
		marker	Y	Y	Y	
	Delete backup	tenant_id	N	Y	Y	
		backup_id	N	Y	Y	
	Restore backup	tenant_id	N	Y	Y	Upload into volume path. (Brick?)
		backup_id	N			
		volume_id	N			
Backup actions (backups, action)	Force-delete backup	tenant_id	N	N	Y	FS supported, but code not Implemented? Check cinder/api/contrib/admin_actions.py
		backup_id	N			
Capabilities for storage back ends (capabilities)	Show back-end capabilities		N	N	N	To check details.
Quota sets extension (os-quota-sets)	Show quotas	admin_tenant_id	N	Y	Y	Administrative only.
		tenant_id	N	Y	Y	
		usage	N	Y	Y	Details for quota
	Update quotas		Y			
	Delete quotas					
	Get default quotas					
	Show quotas for user					
	Update quotas for user					
	Delete quotas for user					
	Show quota details for user					
Quality of service (QoS) specifications (qos-specs)	Create QoS specification			N	Y	DB Only. Associated with volume type.
	List QoS specs		N	N	Y	
	Show QoS specification details			N	Y	
	Set or unset keys in QoS specification			N	Y	
	Delete QoS specification			N	Y	
	Associate QoS specification with volume type			N	Y	
	Disassociate QoS specification from volume type			N	Y	
	Disassociate QoS specification from all associations			N	Y	

	Get all associations for QoS specification			N	Y	
Volume types (types)	List volume types			N	Y	
	Create volume type			N	Y	
	Update volume type			N	Y	
	Update extra specs for a volume type			N	Y	
	Show volume type information			N	Y	
	Delete volume type			N	Y	
Volume snapshots (snapshots)	Create snapshot	tenant_id	N	Y	Y	
		name	Y	Y	Y	
		description	Y	Y	Y	
		new_size	Y	Y	Y	
		volume_id	Y	Y	Y	
		force	Y	Y	Y	
	List snapshots			Y		
	List snapshots (detailed)			Y		
	Show snapshot information			Y		
	Update snapshot			N		
	Delete snapshot			Y		
	Show snapshot metadata			N		
	Update snapshot metadata			N		
Volume manage extension (os-volume-manage)	Manage existing volume			N	N	
Volume image metadata extension (os-vol-image-meta)	Show image metadata for volume			N	Y	