



Available Role Based Access Control Permissions for XenServer

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Summary

This document lists all the permissions available to modify and extend RBAC (Role Based Access Control) pre-established roles in XenServer 5.6 and later editions.

Requirements

Pool Administrator or root access to XenServer host using the Command Line Interface (CLI)

Pool Administrator or root access to XenServer host using XenCenter

Pool Administrator or root access to XenCenter

Considerations

Before extending RBAC permissions, it is important to understand the roles available, the permissions each role has and what operations these permissions allow.

See CTX126442 - How to Modify Default Role Based Access Control Permissions for XenServer for more details on modifying default RBAC permission

Permissions Available

Note: An "X" indicates that the permission listed has already been assigned to that role. If a permission is not assigned to any role, then it can only be executed by a local superuser (root) session.

The reason for the /key:X* suffixes in permissions is to provide the ability to have roles assigned to a subset of key names.

The * (asterisk) at the end indicates that any key name with the prefix X is included in the permission. This is used by XenCenter, which can have an unbounded number of key names inside, that is, the vdi.add_other_config maps that start with XenCenter.CustomFields, but whose suffix can be anything.

From the point of view of the customer, those permissions mean that:

- Any keys in vdi.other_config that have a name prefix "XenCenter.CustomFields." (such as XenCenter.CustomFields.A, XenCenter.CustomFields.XYZ), during a vdi.add_to_other_config action, can be accessed by vm-operator and above
- Any key in vdi.other_config that have the exact name "folder", during a vdi.add_to_other_config action, can be accessed by vm-operator and above;
- Any keys in vdi.other_config, during a vdi.add_to_other_config action, can be accessed by vm-admin and above (so vm-operator cannot access these remaining keys during vdi.add_to_other_config).

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
internal/vm.plug_pcidevs	X					
task.destroy/any	X	X				
http/post_json	X	X	X	X	X	X
http/post_root	X	X	X	X	X	X
http/get_audit_log	X	X	X	X	X	X
http/get_wlb_diagnostics	X	X	X	X	X	X
http/get_wlb_report	X	X	X	X	X	X
http/post_remote_stats	X					
http/connect_remotecmd	X					
http/get_message_rss_feed	X					
http/put_blob	X	X	X			
http/get_blob	X	X	X	X	X	X

http/get_rrd_updates	X	X	X	X	X	X
http/get_host_rrd	X	X	X	X	X	X
http/put_rrd	X					
http/get_vm_rrd	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
http/get_system_status	X	X				
http/put_vm_connect	X					
http/get_vm_connect	X					
http/get_config_sync	X					
http/put_pool_xml_db_sync	X					
http/get_pool_xml_db_sync	X					
http/get_vncsnapshot/host_console	X					
http/get_vncsnapshot	X	X	X	X	X	
http/put_oem_patch_stream	X	X				
http/get_pool_patch_download	X	X				
http/put_pool_patch_upload	X	X				
http/get_host_logs_download	X	X				
http/put_host_restore	X					
http/get_host_backup	X					
http/post_cli	X	X	X	X	X	X
http/get_root	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
http/connect_console/host_console	X					
http/connect_console	X	X	X	X	X	
http/get_export_metadata	X	X	X	X		

http.get_export	X	X	X	X		
http.put_import_raw_vdi	X	X	X	X		
http.put_import_metadata	X	X	X	X		
http.put_import	X	X	X	X		
http.connect_migrate	X	X	X			
http.post_remote_db_access	X					
secret.get_all_records	X	X				
secret.get_all_records_where	X	X				
secret.get_all	X	X				
secret.introduce	X	X				
secret.set_value	X	X				
secret.get_value	X	X				
secret.get_uuid	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
secret.destroy	X	X				
secret.create	X	X				
secret.get_by_uuid	X	X				
secret.get_record	X	X				
message.get_all_records_where	X	X	X	X	X	X
message.get_all_records	X	X	X	X	X	X
message.get_by_uuid	X	X	X	X	X	X
message.get_record	X	X	X	X	X	X
message.get_since	X	X	X	X	X	X
message.get_all	X	X	X	X	X	X
message.get	X	X	X	X	X	X
message.destroy	X	X				

message.create	X	X				
blob.get_all_records	X	X	X	X	X	X
blob.get_all_records_where	X	X	X	X	X	X
blob.get_all	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
blob.destroy	X	X				
blob.create	X	X				
blob.set_name_description	X	X				
blob.set_name_label	X	X				
blob.get_mime_type	X	X	X	X	X	X
blob.get_last_updated	X	X	X	X	X	X
blob.get_size	X	X	X	X	X	X
blob.get_name_description	X	X	X	X	X	X
blob.get_name_label	X	X	X	X	X	X
blob.get_uuid	X	X	X	X	X	X
blob.get_by_name_label	X	X	X	X	X	X
blob.get_by_uuid	X	X	X	X	X	X
blob.get_record	X	X	X	X	X	X
user.remove_from_other_config	X					
user.add_to_other_config	X					
user.set_other_config	X					

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
user.set_fullname	X					
user.get_other_config	X	X	X	X	X	X
user.get_fullname	X	X	X	X	X	X

user.get_short_name	X	X	X	X	X	X
user.get_uuid	X	X	X	X	X	X
user.destroy	X					
user.create	X					
user.get_by_uuid	X	X	X	X	X	X
user.get_record	X	X	X	X	X	X
console.get_all_records	X	X	X	X	X	X
console.get_all_records_where	X	X	X	X	X	X
console.get_all	X	X	X	X	X	X
console.remove_from_other_config	X	X	X	X		
console.add_to_other_config	X	X	X	X		
console.set_other_config	X	X	X	X		
console.get_other_config	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
console.get_vm	X	X	X	X	X	X
console.get_location	X	X	X	X	X	X
console.get_protocol	X	X	X	X	X	X
console.get_uuid	X	X	X	X	X	X
console.destroy	X	X	X	X		
console.create	X	X	X	X		
console.get_by_uuid	X	X	X	X	X	X
console.get_record	X	X	X	X	X	X
vtpm.get_backend	X	X	X	X	X	X
vtpm.get_vm	X	X	X	X	X	X
vtpm.get_uuid	X	X	X	X	X	X
vtpm.destroy	X	X	X	X		

vtpm.create	X	X	X	X		
vtpm.get_by_uuid	X	X	X	X	X	X
vtpm.get_record	X	X	X	X	X	X
crashdump.get_all_records	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
crashdump.get_all_records_where	X	X	X	X	X	X
crashdump.get_all	X	X	X	X	X	X
crashdump.destroy	X	X				
crashdump.remove_from_other_config	X	X				
crashdump.add_to_other_config	X	X				
crashdump.set_other_config	X	X				
crashdump.get_other_config	X	X	X	X	X	X
crashdump.get_vdi	X	X	X	X	X	X
crashdump.get_vm	X	X	X	X	X	X
crashdump.get_uuid	X	X	X	X	X	X
crashdump.get_by_uuid	X	X	X	X	X	X
crashdump.get_record	X	X	X	X	X	X
pbd.get_all_records	X	X	X	X	X	X
pbd.get_all_records_where	X	X	X	X	X	X
pbd.get_all	X	X	X	X	X	X
pbd.set_device_config	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pbd.unplug	X	X				
pbd.plug	X	X				
pbd.remove_from_other_config	X	X				

pbd.add_to_other_config	X	X				
pbd.set_other_config	X	X				
pbd.get_other_config	X	X	X	X	X	X
pbd.get_currently_attached	X	X	X	X	X	X
pbd.get_device_config	X	X	X	X	X	X
pbd.get_sr	X	X	X	X	X	X
pbd.get_host	X	X	X	X	X	X
pbd.get_uuid	X	X	X	X	X	X
pbd.destroy	X	X				
pbd.create	X	X				
pbd.get_by_uuid	X	X	X	X	X	X
pbd.get_record	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vbd_metrics.get_all_records	X	X	X	X	X	X
vbd_metrics.get_all_records_where	X	X	X	X	X	X
vbd_metrics.get_all	X	X	X	X	X	X
vbd_metrics.remove_from_other_config	X	X	X	X		
vbd_metrics.add_to_other_config	X	X	X	X		
vbd_metrics.set_other_config	X	X	X	X		
vbd_metrics.get_other_config	X	X	X	X	X	X
vbd_metrics.get_last_updated	X	X	X	X	X	X
vbd_metrics.get_io_write_kbs	X	X	X	X	X	X
vbd_metrics.get_io_read_kbs	X	X	X	X	X	X
vbd_metrics.get_uuid	X	X	X	X	X	X
vbd_metrics.get_by_uuid	X	X	X	X	X	X
vbd_metrics.get_record	X	X	X	X	X	X

vbd.get_all_records	X	X	X	X	X	X
vbd.get_all_records_where	X	X	X	X	X	X
vbd.get_all	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vbd.unpause	X	X	X	X		
vbd.pause	X	X	X	X		
vbd.assert_attachable	X	X	X	X		
vbd.unplug_force_no_safety_check	X	X	X	X		
vbd.unplug_force	X	X	X	X		
vbd.unplug	X	X	X	X		
vbd.plug	X	X	X	X		
vbd.insert	X	X	X	X	X	
vbd.eject	X	X	X	X	X	
vbd.remove_from_qos_algorithm_params	X	X	X	X		
vbd.add_to_qos_algorithm_params	X	X	X	X		
vbd.set_qos_algorithm_params	X	X	X	X		
vbd.set_qos_algorithm_type	X	X	X	X		
vbd.remove_from_other_config	X	X	X	X		
vbd.add_to_other_config	X	X	X	X		
vbd.set_other_config	X	X	X	X		

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vbd.set_unpluggable	X	X	X	X		
vbd.set_type	X	X	X	X		
vbd.set_mode	X	X	X	X		
vbd.set_bootable	X	X	X	X		

vbd.set_userdevice	X	X	X	X		
vbd.get_metrics	X	X	X	X	X	X
vbd.get_qos_supported_algorithms	X	X	X	X	X	X
vbd.get_qos_algorithm_params	X	X	X	X	X	X
vbd.get_qos_algorithm_type	X	X	X	X	X	X
vbd.get_runtime_properties	X	X	X	X	X	X
vbd.get_status_detail	X	X	X	X	X	X
vbd.get_status_code	X	X	X	X	X	X
vbd.get_currently_attached	X	X	X	X	X	X
vbd.get_other_config	X	X	X	X	X	X
vbd.get_empty	X	X	X	X	X	X
vbd.get_storage_lock	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vbd.get_unpluggable	X	X	X	X	X	X
vbd.get_type	X	X	X	X	X	X
vbd.get_mode	X	X	X	X	X	X
vbd.get_bootable	X	X	X	X	X	X
vbd.get_userdevice	X	X	X	X	X	X
vbd.get_device	X	X	X	X	X	X
vbd.get_vdi	X	X	X	X	X	X
vbd.get_vm	X	X	X	X	X	X
vbd.get_current_operations	X	X	X	X	X	X
vbd.get_allowed_operations	X	X	X	X	X	X
vbd.get_uuid	X	X	X	X	X	X
vbd.destroy	X	X	X	X		
vbd.create	X	X	X	X		

vbd.get_by_uuid	X	X	X	X	X	X
vbd.get_record	X	X	X	X	X	X
vdi.get_all_records	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vdi.get_all_records_where	X	X	X	X	X	X
vdi.get_all	X	X	X	X	X	X
vdi.generate_config	X	X	X	X		
vdi.set_physical_utilisation	X	X	X	X		
vdi.set_virtual_size	X	X	X	X		
vdi.set_missing	X	X	X	X		
vdi.set_read_only	X	X	X	X		
vdi.set_sharable	X	X	X	X		
vdi.forget	X	X	X	X		
vdi.set_managed	X	X	X	X		
vdi.force_unlock	X	X	X	X		
vdi.copy	X	X	X	X		
vdi.update	X	X	X	X		
vdi.db_forget	X	X	X	X		
vdi.db_introduce	X	X	X	X		

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vdi.pool_introduce	X	X	X	X		
vdi.introduce	X	X	X	X		
vdi.resize_online	X	X	X	X		
vdi.resize	X	X	X	X		
vdi.clone	X	X	X	X		

vdi.snapshot	X	X	X	X		
vdi.remove_tags	X	X	X	X	X	
vdi.add_tags	X	X	X	X	X	
vdi.set_tags	X	X	X	X	X	
vdi.remove_from_sm_config	X	X	X	X		
vdi.add_to_sm_config	X	X	X	X		
vdi.set_sm_config	X	X	X	X		
vdi.remove_from_xenstore_data	X	X	X	X		
vdi.add_to_xenstore_data	X	X	X	X		
vdi.set_xenstore_data	X	X	X	X		
vdi.remove_from_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vdi.remove_from_other_config/key:folder	X	X	X	X	X	
vdi.remove_from_other_config	X	X	X	X		
vdi.add_to_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
vdi.add_to_other_config/key:folder	X	X	X	X	X	
vdi.add_to_other_config	X	X	X	X		
vdi.set_other_config	X	X	X	X		
vdi.set_name_description	X	X	X	X		
vdi.set_name_label	X	X	X	X		
vdi.get_tags	X	X	X	X	X	X
vdi.get_snapshot_time	X	X	X	X	X	X
vdi.get_snapshots	X	X	X	X	X	X
vdi.get_snapshot_of	X	X	X	X	X	X
vdi.get_is_a_snapshot	X	X	X	X	X	X
vdi.get_sm_config	X	X	X	X	X	X

vdi.get_xenstore_data	X	X	X	X	X	X
vdi.get_parent	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vdi.get_missing	X	X	X	X	X	X
vdi.get_managed	X	X	X	X	X	X
vdi.get_location	X	X	X	X	X	X
vdi.get_storage_lock	X	X	X	X	X	X
vdi.get_other_config	X	X	X	X	X	X
vdi.get_read_only	X	X	X	X	X	X
vdi.get_sharable	X	X	X	X	X	X
vdi.get_type	X	X	X	X	X	X
vdi.get_physical_utilisation	X	X	X	X	X	X
vdi.get_virtual_size	X	X	X	X	X	X
vdi.get_crash_dumps	X	X	X	X	X	X
vdi.get_vbds	X	X	X	X	X	X
vdi.get_sr	X	X	X	X	X	X
vdi.get_current_operations	X	X	X	X	X	X
vdi.get_allowed_operations	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vdi.get_name_description	X	X	X	X	X	X
vdi.get_name_label	X	X	X	X	X	X
vdi.get_uuid	X	X	X	X	X	X
vdi.get_by_name_label	X	X	X	X	X	X
vdi.destroy	X	X	X	X		
vdi.create	X	X	X	X		

vdi.get_by_uuid	X	X	X	X	X	X
vdi.get_record	X	X	X	X	X	X
sr.get_all_records	X	X	X	X	X	X
sr.get_all_records_where	X	X	X	X	X	X
sr.get_all	X	X	X	X	X	X
sr.lvhd_stop_using_these_vdis_and_call_script	X	X				
sr.assert_can_host_ha_statefile	X	X				
sr.set_physical_utilisation	X	X				
sr.set_virtual_allocation	X	X				
sr.set_physical_size	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
sr.create_new_blob	X	X				
sr.set_shared	X	X				
sr.probe	X	X				
sr.scan	X	X				
sr.get_supported_types	X	X	X	X	X	X
sr.update	X	X				
sr.forget	X	X				
sr.destroy	X	X				
sr.make	X	X				
sr.introduce	X	X				
sr.create	X	X				
sr.remove_from_sm_config	X	X				
sr.add_to_sm_config	X	X				
sr.set_sm_config	X	X				
sr.remove_tags	X	X	X	X	X	

sr.add_tags	X	X	X	X	X	
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An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-onl
sr.set_tags	X	X	X	X	X	
sr.remove_from_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
sr.remove_from_other_config/key:folder	X	X	X	X	X	
sr.remove_from_other_config	X	X				
sr.add_to_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
sr.add_to_other_config/key:folder	X	X	X	X	X	
sr.add_to_other_config	X	X				
sr.set_other_config	X	X				
sr.set_name_description	X	X				
sr.set_name_label	X	X				
sr.get_blobs	X	X	X	X	X	X
sr.get_sm_config	X	X	X	X	X	X
sr.get_tags	X	X	X	X	X	X
sr.get_other_config	X	X	X	X	X	X
sr.get_shared	X	X	X	X	X	X
sr.get_content_type	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
sr.get_type	X	X	X	X	X	X
sr.get_physical_size	X	X	X	X	X	X
sr.get_physical_utilisation	X	X	X	X	X	X
sr.get_virtual_allocation	X	X	X	X	X	X
sr.get_pbds	X	X	X	X	X	X
sr.get_vdis	X	X	X	X	X	X

sr.get_current_operations	X	X	X	X	X	X
sr.get_allowed_operations	X	X	X	X	X	X
sr.get_name_description	X	X	X	X	X	X
sr.get_name_label	X	X	X	X	X	X
sr.get_uuid	X	X	X	X	X	X
sr.get_by_name_label	X	X	X	X	X	X
sr.get_by_uuid	X	X	X	X	X	X
sr.get_record	X	X	X	X	X	X
sm.get_all_records	X	X	X	X	X	X
sm.get_all_records_where	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
sm.get_all	X	X	X	X	X	X
sm.remove_from_other_config	X	X				
sm.add_to_other_config	X	X				
sm.set_other_config	X	X				
sm.get_driver_filename	X	X	X	X	X	X
sm.get_other_config	X	X	X	X	X	X
sm.get_capabilities	X	X	X	X	X	X
sm.get_configuration	X	X	X	X	X	X
sm.get_required_api_version	X	X	X	X	X	X
sm.get_version	X	X	X	X	X	X
sm.get_copyright	X	X	X	X	X	X
sm.get_vendor	X	X	X	X	X	X
sm.get_type	X	X	X	X	X	X
sm.get_name_description	X	X	X	X	X	X
sm.get_name_label	X	X	X	X	X	X

sm.get_uuid	X	X	X	X	X	X
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An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
sm.get_by_name_label	X	X	X	X	X	X
sm.get_by_uuid	X	X	X	X	X	X
sm.get_record	X	X	X	X	X	X
vlan.get_all_records	X	X	X	X	X	X
vlan.get_all_records_where	X	X	X	X	X	X
vlan.get_all	X	X	X	X	X	X
vlan.destroy	X	X				
vlan.create	X	X				
vlan.remove_from_other_config	X	X				
vlan.add_to_other_config	X	X				
vlan.set_other_config	X	X				
vlan.get_other_config	X	X	X	X	X	X
vlan.get_tag	X	X	X	X	X	X
vlan.get_untagged_pif	X	X	X	X	X	X
vlan.get_tagged_pif	X	X	X	X	X	X
vlan.get_uuid	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vlan.get_by_uuid	X	X	X	X	X	X
vlan.get_record	X	X	X	X	X	X
Bond.get_all_records	X	X	X	X	X	X
Bond.get_all_records_where	X	X	X	X	X	X
Bond.get_all	X	X	X	X	X	X
Bond.destroy	X	X				

Bond.create	X	X				
Bond.remove_from_other_config	X	X				
Bond.add_to_other_config	X	X				
Bond.set_other_config	X	X				
Bond.get_other_config	X	X	X	X	X	X
Bond.get_slaves	X	X	X	X	X	X
Bond.get_master	X	X	X	X	X	X
Bond.get_uuid	X	X	X	X	X	X
Bond.get_by_uuid	X	X	X	X	X	X
Bond.get_record	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pif_metrics.get_all_records	X	X	X	X	X	X
pif_metrics.get_all_records_where	X	X	X	X	X	X
pif_metrics.get_all	X	X	X	X	X	X
pif_metrics.remove_from_other_config	X	X				
pif_metrics.add_to_other_config	X	X				
pif_metrics.set_other_config	X	X				
pif_metrics.get_other_config	X	X	X	X	X	X
pif_metrics.get_last_updated	X	X	X	X	X	X
pif_metrics.get_pci_bus_path	X	X	X	X	X	X
pif_metrics.get_duplex	X	X	X	X	X	X
pif_metrics.get_speed	X	X	X	X	X	X
pif_metrics.get_device_name	X	X	X	X	X	X
pif_metrics.get_device_id	X	X	X	X	X	X
pif_metrics.get_vendor_name	X	X	X	X	X	X
pif_metrics.get_vendor_id	X	X	X	X	X	X

pif_metrics.get_carrier	X	X	X	X	X	X
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An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pif_metrics.get_io_write_kbs	X	X	X	X	X	X
pif_metrics.get_io_read_kbs	X	X	X	X	X	X
pif_metrics.get_uuid	X	X	X	X	X	X
pif_metrics.get_by_uuid	X	X	X	X	X	X
pif_metrics.get_record	X	X	X	X	X	X
pif.get_all_records	X	X	X	X	X	X
pif.get_all_records_where	X	X	X	X	X	X
pif.get_all	X	X	X	X	X	X
pif.db_forget	X	X				
pif.db_introduce	X	X				
pif.pool_introduce	X	X				
pif.plug	X	X				
pif.unplug	X	X				
pif.forget	X	X				
pif.introduce	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pif.scan	X	X				
pif.reconfigure_ip	X	X				
pif.destroy	X	X				
pif.create_vlan	X	X				
pif.set_disallow_unplug	X	X				
pif.remove_from_other_config	X	X				
pif.add_to_other_config	X	X				

pif.set_other_config	X	X				
pif.get_disallow_unplug	X	X	X	X	X	X
pif.get_other_config	X	X	X	X	X	X
pif.get_management	X	X	X	X	X	X
pif.get_vlan_slave_of	X	X	X	X	X	X
pif.get_vlan_master_of	X	X	X	X	X	X
pif.get_bond_master_of	X	X	X	X	X	X
pif.get_bond_slave_of	X	X	X	X	X	X
pif.get_DNS	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pif.get_gateway	X	X	X	X	X	X
pif.get_netmask	X	X	X	X	X	X
pif.get_IP	X	X	X	X	X	X
pif.get_ip_configuration_mode	X	X	X	X	X	X
pif.get_currently_attached	X	X	X	X	X	X
pif.get_physical	X	X	X	X	X	X
pif.get_metrics	X	X	X	X	X	X
pif.get_vlan	X	X	X	X	X	X
pif.get_MTU	X	X	X	X	X	X
pif.get_MAC	X	X	X	X	X	X
pif.get_host	X	X	X	X	X	X
pif.get_network	X	X	X	X	X	X
pif.get_device	X	X	X	X	X	X
pif.get_uuid	X	X	X	X	X	X
pif.get_by_uuid	X	X	X	X	X	X
pif.get_record	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vif_metrics.get_all_records	X	X	X	X	X	X
vif_metrics.get_all_records_where	X	X	X	X	X	X
vif_metrics.get_all	X	X	X	X	X	X
vif_metrics.remove_from_other_config	X	X	X	X		
vif_metrics.add_to_other_config	X	X	X	X		
vif_metrics.set_other_config	X	X	X	X		
vif_metrics.get_other_config	X	X	X	X	X	X
vif_metrics.get_last_updated	X	X	X	X	X	X
vif_metrics.get_io_write_kbs	X	X	X	X	X	X
vif_metrics.get_io_read_kbs	X	X	X	X	X	X
vif_metrics.get_uuid	X	X	X	X	X	X
vif_metrics.get_by_uuid	X	X	X	X	X	X
vif_metrics.get_record	X	X	X	X	X	X
vif.get_all_records	X	X	X	X	X	X
vif.get_all_records_where	X	X	X	X	X	X
vif.get_all	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vif.unplug	X	X	X	X		
vif.plug	X	X	X	X		
vif.remove_from_qos_algorithm_params	X	X	X	X		
vif.add_to_qos_algorithm_params	X	X	X	X		
vif.set_qos_algorithm_params	X	X	X	X		
vif.set_qos_algorithm_type	X	X	X	X		
vif.remove_from_other_config	X	X	X	X		

vif.add_to_other_config	X	X	X	X		
vif.set_other_config	X	X	X	X		
vif.get_MAC_autogenerated	X	X	X	X	X	X
vif.get_metrics	X	X	X	X	X	X
vif.get_qos_supported_algorithms	X	X	X	X	X	X
vif.get_qos_algorithm_params	X	X	X	X	X	X
vif.get_qos_algorithm_type	X	X	X	X	X	X
vif.get_runtime_properties	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vif.get_status_detail	X	X	X	X	X	X
vif.get_status_code	X	X	X	X	X	X
vif.get_currently_attached	X	X	X	X	X	X
vif.get_other_config	X	X	X	X	X	X
vif.get_MTU	X	X	X	X	X	X
vif.get_MAC	X	X	X	X	X	X
vif.get_vm	X	X	X	X	X	X
vif.get_network	X	X	X	X	X	X
vif.get_device	X	X	X	X	X	X
vif.get_current_operations	X	X	X	X	X	X
vif.get_allowed_operations	X	X	X	X	X	X
vif.get_uuid	X	X	X	X	X	X
vif.destroy	X	X	X	X		
vif.create	X	X	X	X		
vif.get_by_uuid	X	X	X	X	X	X
vif.get_record	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
network.get_all_records	X	X	X	X	X	X
network.get_all_records_where	X	X	X	X	X	X
network.get_all	X	X	X	X	X	X
network.create_new_blob	X	X				
network.pool_introduce	X	X				
network.attach	X	X				
network.remove_tags	X	X	X	X	X	
network.add_tags	X	X	X	X	X	
network.set_tags	X	X	X	X	X	
network.remove_from_other_config/key:XenCenterCreateInProgress	X	X	X	X	X	
network.remove_from_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
network.remove_from_other_config/key:folder	X	X	X	X	X	
network.remove_from_other_config	X	X				
network.add_to_other_config/key:XenCenterCreateInProgress	X	X	X	X	X	
network.add_to_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
network.add_to_other_config/key:folder	X	X	X	X	X	

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
network.add_to_other_config	X	X				
network.set_other_config	X	X				
network.set_name_description	X	X				
network.set_name_label	X	X				
network.get_tags	X	X	X	X	X	X
network.get_blobs	X	X	X	X	X	X
network.get_bridge	X	X	X	X	X	X
network.get_other_config	X	X	X	X	X	X

network.get_pifs	X	X	X	X	X	X
network.get_vifs	X	X	X	X	X	X
network.get_current_operations	X	X	X	X	X	X
network.get_allowed_operations	X	X	X	X	X	X
network.get_name_description	X	X	X	X	X	X
network.get_name_label	X	X	X	X	X	X
network.get_uuid	X	X	X	X	X	X
network.get_by_name_label	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
network.destroy	X	X	X	X		
network.create	X	X	X	X		
network.get_by_uuid	X	X	X	X	X	X
network.get_record	X	X	X	X	X	X
host_cpu.get_all_records	X	X	X	X	X	X
host_cpu.get_all_records_where	X	X	X	X	X	X
host_cpu.get_all	X	X	X	X	X	X
host_cpu.remove_from_other_config	X	X				
host_cpu.add_to_other_config	X	X				
host_cpu.set_other_config	X	X				
host_cpu.get_other_config	X	X	X	X	X	X
host_cpu.get_utilisation	X	X	X	X	X	X
host_cpu.get_features	X	X	X	X	X	X
host_cpu.get_flags	X	X	X	X	X	X
host_cpu.get_stepping	X	X	X	X	X	X
host_cpu.get_model	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host_cpu.get_family	X	X	X	X	X	X
host_cpu.get_modelname	X	X	X	X	X	X
host_cpu.get_speed	X	X	X	X	X	X
host_cpu.get_vendor	X	X	X	X	X	X
host_cpu.get_number	X	X	X	X	X	X
host_cpu.get_host	X	X	X	X	X	X
host_cpu.get_uuid	X	X	X	X	X	X
host_cpu.get_by_uuid	X	X	X	X	X	X
host_cpu.get_record	X	X	X	X	X	X
host_metrics.get_all_records	X	X	X	X	X	X
host_metrics.get_all_records_where	X	X	X	X	X	X
host_metrics.get_all	X	X	X	X	X	X
host_metrics.remove_from_other_config	X	X				
host_metrics.add_to_other_config	X	X				
host_metrics.set_other_config	X	X				
host_metrics.get_other_config	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host_metrics.get_last_updated	X	X	X	X	X	X
host_metrics.get_live	X	X	X	X	X	X
host_metrics.get_memory_free	X	X	X	X	X	X
host_metrics.get_memory_total	X	X	X	X	X	X
host_metrics.get_uuid	X	X	X	X	X	X
host_metrics.get_by_uuid	X	X	X	X	X	X
host_metrics.get_record	X	X	X	X	X	X
host_patch.get_all_records	X	X	X	X	X	X

host_patch.get_all_records_where	X	X	X	X	X	X
host_patch.get_all	X	X	X	X	X	X
host_patch.apply	X	X				
host_patch.destroy	X	X				
host_patch.remove_from_other_config	X	X				
host_patch.add_to_other_config	X	X				
host_patch.set_other_config	X	X				
host_patch.get_other_config	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host_patch.get_pool_patch	X	X	X	X	X	X
host_patch.get_size	X	X	X	X	X	X
host_patch.get_timestamp_applied	X	X	X	X	X	X
host_patch.get_applied	X	X	X	X	X	X
host_patch.get_host	X	X	X	X	X	X
host_patch.get_version	X	X	X	X	X	X
host_patch.get_name_description	X	X	X	X	X	X
host_patch.get_name_label	X	X	X	X	X	X
host_patch.get_uuid	X	X	X	X	X	X
host_patch.get_by_name_label	X	X	X	X	X	X
host_patch.get_by_uuid	X	X	X	X	X	X
host_patch.get_record	X	X	X	X	X	X
host_crashdump.get_all_records	X	X	X	X	X	X
host_crashdump.get_all_records_where	X	X	X	X	X	X
host_crashdump.get_all	X	X	X	X	X	X
host_crashdump.upload	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host_crashdump.destroy	X	X				
host_crashdump.remove_from_other_config	X	X				
host_crashdump.add_to_other_config	X	X				
host_crashdump.set_other_config	X	X				
host_crashdump.get_other_config	X	X	X	X	X	X
host_crashdump.get_size	X	X	X	X	X	X
host_crashdump.get_timestamp	X	X	X	X	X	X
host_crashdump.get_host	X	X	X	X	X	X
host_crashdump.get_uuid	X	X	X	X	X	X
host_crashdump.get_by_uuid	X	X	X	X	X	X
host_crashdump.get_record	X	X	X	X	X	X
host.get_all_records	X	X	X	X	X	X
host.get_all_records_where	X	X	X	X	X	X
host.get_all	X	X	X	X	X	X
host.set_power_on_mode	X	X				
host.refresh_pack_info	X	X				
host.apply_edition	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host.set_localdb_key						
host.detach_static_vdis						
host.attach_static_vdis						
host.update_master						
host.update_pool_secret						
host.get_server_certificate	X	X				
host.certificate_sync						

host.crl_list						
host.crl_uninstall						
host.crl_install						
host.certificate_list						
host.certificate_uninstall						
host.certificate_install						
host.retrieve_wlb_evacuate_recommendations	X	X	X	X	X	X
host.disable_external_auth	X					
host.enable_external_auth	X					

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host.disable_binary_storage						
host.enable_binary_storage						
host.get_servertime	X	X	X	X	X	X
host.call_plugin	X					
host.create_new_blob	X	X				
host.backup_rrds	X					
host.sync_data	X					
host.tickle_heartbeat						
host.compute_memory_overhead	X	X	X	X	X	X
host.compute_free_memory	X	X	X	X	X	X
host.is_in_emergency_mode	X	X	X	X	X	X
host.set_hostname_live	X	X				
host.shutdown_agent	X	X				
host.restart_agent	X	X				
host.get_diagnostic_timing_stats	X	X	X	X	X	X
host.get_system_status_capabilities	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host.management_disable	X	X				
host.local_management_reconfigure	X	X				
host.management_reconfigure	X	X				
host.syslog_reconfigure	X	X				
host.notify						
host.signal_networking_change						
host.evacuate	X	X				
host.get_uncooperative_domains						
host.get_uncooperative_resident_vms	X	X	X	X	X	X
host.get_vms_which_prevent_evacuation	X	X	X	X	X	X
host.assert_can_evacuate	X	X				
host.forget_data_source_archives	X	X				
host.query_data_source	X	X	X	X	X	X
host.record_data_source	X	X				
host.get_data_sources	X	X	X	X	X	X
host.abort_new_master						

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host.commit_new_master						
host.propose_new_master						
host.request_config_file_sync						
host.request_backup						
host.local_assert_healthy						
host.ha_xapi_healthcheck	X					
host.ha_release_resources						

host.ha_stop_daemon						
host.ha_wait_for_shutdown_via_statefile						
host.ha_disable_failover_decisions						
host.ha_join_liveset						
host.preconfigure_ha						
host.ha_disarm_fencing						
host.emergency_ha_disable	X	X				
host.set_license_params						

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host.power_on	X	X				
host.destroy	X	X				
host.create	X	X				
host.license_apply	X	X				
host.list_methods	X	X	X	X	X	X
host.bugreport_upload	X	X				
host.send_debug_keys	X					
host.get_log	X	X	X	X	X	X
host.dmesg_clear	X	X				
host.dmesg	X	X				
host.reboot	X	X				
host.shutdown	X	X				
host.enable	X	X				
host.disable	X	X				
host.remove_from_license_server	X	X				
host.add_to_license_server	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host.set_license_server	X	X				
host.remove_tags	X	X	X	X	X	
host.add_tags	X	X	X	X	X	
host.set_tags	X	X	X	X	X	
host.set_address	X	X				
host.set_hostname	X	X				
host.set_crash_dump_sr	X	X				
host.set_suspend_image_sr	X	X				
host.remove_from_logging	X	X				
host.add_to_logging	X	X				
host.set_logging	X	X				
host.remove_from_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
host.remove_from_other_config/key:folder	X	X	X	X	X	
host.remove_from_other_config	X	X				
host.add_to_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
host.add_to_other_config/key:folder	X	X	X	X	X	

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host.add_to_other_config	X	X				
host.set_other_config	X	X				
host.set_name_description	X	X				
host.set_name_label	X	X				
host.get_power_on_config	X	X	X	X	X	X
host.get_power_on_mode	X	X	X	X	X	X
host.get_bios_strings	X	X	X	X	X	X
host.get_license_server	X	X	X	X	X	X

host.get_edition	X	X	X	X	X	X
host.get_external_auth_configuration	X	X	X	X	X	X
host.get_external_auth_service_name	X	X	X	X	X	X
host.get_external_auth_type	X	X	X	X	X	X
host.get_tags	X	X	X	X	X	X
host.get_blobs	X	X	X	X	X	X
host.get_ha_network_peers	X	X	X	X	X	X
host.get_ha_statefiles	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host.get_license_params	X	X	X	X	X	X
host.get_metrics	X	X	X	X	X	X
host.get_address	X	X	X	X	X	X
host.get_hostname	X	X	X	X	X	X
host.get_host_CPUs	X	X	X	X	X	X
host.get_pbds	X	X	X	X	X	X
host.get_patches	X	X	X	X	X	X
host.get_crashdumps	X	X	X	X	X	X
host.get_crash_dump_sr	X	X	X	X	X	X
host.get_suspend_image_sr	X	X	X	X	X	X
host.get_pifs	X	X	X	X	X	X
host.get_logging	X	X	X	X	X	X
host.get_resident_vms	X	X	X	X	X	X
host.get_supported_bootloaders	X	X	X	X	X	X
host.get_sched_policy	X	X	X	X	X	X
host.get_cpu_configuration	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host.get_capabilities	X	X	X	X	X	X
host.get_other_config	X	X	X	X	X	X
host.get_software_version	X	X	X	X	X	X
host.get_enabled	X	X	X	X	X	X
host.get_API_version_vendor_implementation	X	X	X	X	X	X
host.get_API_version_vendor	X	X	X	X	X	X
host.get_API_version_minor	X	X	X	X	X	X
host.get_API_version_major	X	X	X	X	X	X
host.get_current_operations	X	X	X	X	X	X
host.get_allowed_operations	X	X	X	X	X	X
host.get_memory_overhead	X	X	X	X	X	X
host.get_name_description	X	X	X	X	X	X
host.get_name_label	X	X	X	X	X	X
host.get_uuid	X	X	X	X	X	X
host.get_by_name_label	X	X	X	X	X	X
host.get_by_uuid	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
host.get_record	X	X	X	X	X	X
vm_guest_metrics.get_all_records	X	X	X	X	X	X
vm_guest_metrics.get_all_records_where	X	X	X	X	X	X
vm_guest_metrics.get_all	X	X	X	X	X	X
vm_guest_metrics.remove_from_other_config	X	X	X	X		
vm_guest_metrics.add_to_other_config	X	X	X	X		
vm_guest_metrics.set_other_config	X	X	X	X		
vm_guest_metrics.get_live	X	X	X	X	X	X

vm_guest_metrics.get_other_config	X	X	X	X	X	X
vm_guest_metrics.get_last_updated	X	X	X	X	X	X
vm_guest_metrics.get_other	X	X	X	X	X	X
vm_guest_metrics.get_networks	X	X	X	X	X	X
vm_guest_metrics.get_disks	X	X	X	X	X	X
vm_guest_metrics.get_memory	X	X	X	X	X	X
vm_guest_metrics.get_PV_drivers_up_to_date	X	X	X	X	X	X
vm_guest_metrics.get_PV_drivers_version	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm_guest_metrics.get_os_version	X	X	X	X	X	X
vm_guest_metrics.get_uuid	X	X	X	X	X	X
vm_guest_metrics.get_by_uuid	X	X	X	X	X	X
vm_guest_metrics.get_record	X	X	X	X	X	X
vm_metrics.get_all_records	X	X	X	X	X	X
vm_metrics.get_all_records_where	X	X	X	X	X	X
vm_metrics.get_all	X	X	X	X	X	X
vm_metrics.remove_from_other_config	X	X	X	X		
vm_metrics.add_to_other_config	X	X	X	X		
vm_metrics.set_other_config	X	X	X	X		
vm_metrics.get_other_config	X	X	X	X	X	X
vm_metrics.get_last_updated	X	X	X	X	X	X
vm_metrics.get_install_time	X	X	X	X	X	X
vm_metrics.get_start_time	X	X	X	X	X	X
vm_metrics.get_state	X	X	X	X	X	X
vm_metrics.get_VCPUs_flags	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm_metrics.get_VCPUs_params	X	X	X	X	X	X
vm_metrics.get_VCPUs_CPU	X	X	X	X	X	X
vm_metrics.get_VCPUs_utilisation	X	X	X	X	X	X
vm_metrics.get_VCPUs_number	X	X	X	X	X	X
vm_metrics.get_memory_actual	X	X	X	X	X	X
vm_metrics.get_uuid	X	X	X	X	X	X
vm_metrics.get_by_uuid	X	X	X	X	X	X
vm_metrics.get_record	X	X	X	X	X	X
vm.get_all_records	X	X	X	X	X	X
vm.get_all_records_where	X	X	X	X	X	X
vm.get_all	X	X	X	X	X	X
vm.copy_bios_strings	X	X	X	X		
vm.retrieve_wlb_recommendations	X	X	X	X	X	X
vm.update_snapshot_metadata	X	X				
vm.assert_agile	X	X	X	X	X	X
vm.s3_resume	X	X	X	X	X	

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.s3_suspend	X	X	X	X	X	
vm.create_new_blob	X	X	X			
vm.atomic_set_resident_on						
vm.assert_can_boot_here	X	X	X	X	X	X
vm.get_possible_hosts	X	X	X	X	X	X
vm.get_allowed_vif_devices	X	X	X	X	X	X
vm.get_allowed_vbd_devices	X	X	X	X	X	X
vm.update_allowed_operations	X					

vm.assert_operation_valid	X					
vm.forget_data_source_archives	X	X	X	X		
vm.query_data_source	X	X	X	X	X	X
vm.record_data_source	X	X	X	X		
vm.get_data_sources	X	X	X	X	X	X
vm.get_boot_record	X	X	X	X	X	X
vm.migrate	X	X	X			
vm.maximise_memory	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.send_trigger	X					
vm.send_sysrq	X					
vm.set_VCPUs_at_startup	X	X	X	X		
vm.set_VCPUs_max	X	X	X	X		
vm.set_shadow_multiplier_live	X	X	X			
vm.set_Hvm_shadow_multiplier	X	X	X			
vm.get_cooperative	X	X	X	X	X	X
vm.wait_memory_target_live	X	X	X	X	X	X
vm.set_memory_target_live	X	X	X			
vm.set_memory_limits	X	X	X			
vm.set_memory_static_range	X	X	X			
vm.set_memory_static_min	X	X	X			
vm.set_memory_static_max	X	X	X			
vm.set_memory_dynamic_range	X	X	X			
vm.set_memory_dynamic_min	X	X	X			
vm.set_memory_dynamic_max	X	X	X			

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.compute_memory_overhead	X	X	X	X	X	X
vm.set_ha_always_run	X	X				
vm.set_ha_restart_priority	X	X				
vm.add_to_VCPUs_params_live	X	X	X	X		
vm.set_VCPUs_number_live	X	X	X	X		
vm.pool_migrate	X	X	X			
vm.resume_on	X	X	X			
vm.hard_reboot_internal						
vm.resume	X	X	X	X	X	
vm.csvm	X	X	X	X		
vm.suspend	X	X	X	X	X	
vm.hard_reboot	X	X	X	X	X	
vm.power_state_reset	X	X				
vm.hard_shutdown	X	X	X	X	X	
vm.clean_reboot	X	X	X	X	X	
vm.clean_shutdown	X	X	X	X	X	

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.unpause	X	X	X	X	X	
vm.pause	X	X	X	X	X	
vm.start_on	X	X	X			
vm.start	X	X	X	X	X	
vm.provision	X	X	X	X		
vm.checkpoint	X	X	X			
vm.revert	X	X	X			
vm.create_template	X	X	X	X		

vm.copy	X	X	X	X		
vm.clone	X	X	X	X		
vm.snapshot_with_quiesce	X	X	X			
vm.snapshot	X	X	X			
vm.remove_from_blocked_operations	X	X	X	X		
vm.add_to_blocked_operations	X	X	X	X		
vm.set_blocked_operations	X	X	X	X		
vm.remove_tags	X	X	X	X	X	

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.add_tags	X	X	X	X	X	
vm.set_tags	X	X	X	X	X	
vm.remove_from_xenstore_data	X	X	X	X		
vm.add_to_xenstore_data	X	X	X	X		
vm.set_xenstore_data	X	X	X	X		
vm.set_recommendations	X	X	X	X		
vm.remove_from_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
vm.remove_from_other_config/key:folder	X	X	X	X	X	
vm.remove_from_other_config	X	X	X	X		
vm.add_to_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
vm.add_to_other_config/key:folder	X	X	X	X	X	
vm.add_to_other_config	X	X	X	X		
vm.set_other_config	X	X	X	X		
vm.set_PCI_bus	X	X	X	X		
vm.remove_from_platform	X	X	X	X		
vm.add_to_platform	X	X	X	X		

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.set_platform	X	X	X	X		
vm.remove_from_Hvm_boot_params	X	X	X	X		
vm.add_to_Hvm_boot_params	X	X	X	X		
vm.set_Hvm_boot_params	X	X	X	X		
vm.set_Hvm_boot_policy	X	X	X	X		
vm.set_PV_legacy_args	X	X	X	X		
vm.set_PV_bootloader_args	X	X	X	X		
vm.set_PV_args	X	X	X	X		
vm.set_PV_ramdisk	X	X	X	X		
vm.set_PV_kernel	X	X	X	X		
vm.set_PV_bootloader	X	X	X	X		
vm.set_actions_after_crash	X	X	X	X		
vm.set_actions_after_reboot	X	X	X	X		
vm.set_actions_after_shutdown	X	X	X	X		
vm.remove_from_VCPUs_params	X	X	X	X		
vm.add_to_VCPUs_params	X	X	X	X		

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.set_VCPUs_params	X	X	X	X		
vm.set_affinity	X	X	X			
vm.set_is_a_template	X	X	X	X		
vm.set_user_version	X	X	X	X		
vm.set_name_description	X	X	X	X		
vm.set_name_label	X	X	X	X		
vm.get_bios_strings	X	X	X	X	X	X
vm.get_children	X	X	X	X	X	X

vm.get_parent	X	X	X	X	X	X
vm.get_snapshot_metadata	X	X	X	X	X	X
vm.get_snapshot_info	X	X	X	X	X	X
vm.get_blocked_operations	X	X	X	X	X	X
vm.get_tags	X	X	X	X	X	X
vm.get_blobs	X	X	X	X	X	X
vm.get_transportable_snapshot_id	X	X	X	X	X	X
vm.get_snapshot_time	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.get_snapshots	X	X	X	X	X	X
vm.get_snapshot_of	X	X	X	X	X	X
vm.get_is_a_snapshot	X	X	X	X	X	X
vm.get_ha_restart_priority	X	X	X	X	X	X
vm.get_ha_always_run	X	X	X	X	X	X
vm.get_xenstore_data	X	X	X	X	X	X
vm.get_recommendations	X	X	X	X	X	X
vm.get_last_booted_record	X	X	X	X	X	X
vm.get_guest_metrics	X	X	X	X	X	X
vm.get_metrics	X	X	X	X	X	X
vm.get_is_control_domain	X	X	X	X	X	X
vm.get_last_boot_CPU_flags	X	X	X	X	X	X
vm.get_domarch	X	X	X	X	X	X
vm.get_domid	X	X	X	X	X	X
vm.get_other_config	X	X	X	X	X	X
vm.get_PCI_bus	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.get_platform	X	X	X	X	X	X
vm.get_Hvm_shadow_multiplier	X	X	X	X	X	X
vm.get_Hvm_boot_params	X	X	X	X	X	X
vm.get_Hvm_boot_policy	X	X	X	X	X	X
vm.get_PV_legacy_args	X	X	X	X	X	X
vm.get_PV_bootloader_args	X	X	X	X	X	X
vm.get_PV_args	X	X	X	X	X	X
vm.get_PV_ramdisk	X	X	X	X	X	X
vm.get_PV_kernel	X	X	X	X	X	X
vm.get_PV_bootloader	X	X	X	X	X	X
vm.get_vtpms	X	X	X	X	X	X
vm.get_crash_dumps	X	X	X	X	X	X
vm.get_vbds	X	X	X	X	X	X
vm.get_vifs	X	X	X	X	X	X
vm.get_consoles	X	X	X	X	X	X
vm.get_actions_after_crash	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.get_actions_after_reboot	X	X	X	X	X	X
vm.get_actions_after_shutdown	X	X	X	X	X	X
vm.get_VCPUs_at_startup	X	X	X	X	X	X
vm.get_VCPUs_max	X	X	X	X	X	X
vm.get_VCPUs_params	X	X	X	X	X	X
vm.get_memory_static_min	X	X	X	X	X	X
vm.get_memory_dynamic_min	X	X	X	X	X	X
vm.get_memory_dynamic_max	X	X	X	X	X	X

vm.get_memory_static_max	X	X	X	X	X	X
vm.get_memory_target	X	X	X	X	X	X
vm.get_memory_overhead	X	X	X	X	X	X
vm.get_affinity	X	X	X	X	X	X
vm.get_resident_on	X	X	X	X	X	X
vm.get_suspend_vdi	X	X	X	X	X	X
vm.get_is_a_template	X	X	X	X	X	X
vm.get_user_version	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
vm.get_name_description	X	X	X	X	X	X
vm.get_name_label	X	X	X	X	X	X
vm.get_power_state	X	X	X	X	X	X
vm.get_current_operations	X	X	X	X	X	X
vm.get_allowed_operations	X	X	X	X	X	X
vm.get_uuid	X	X	X	X	X	X
vm.get_by_name_label	X	X	X	X	X	X
vm.destroy	X	X	X	X		
vm.create	X	X	X	X		
vm.get_by_uuid	X	X	X	X	X	X
vm.get_record	X	X	X	X	X	X
pool_patch.get_all_records	X	X	X	X	X	X
pool_patch.get_all_records_where	X	X	X	X	X	X
pool_patch.get_all	X	X	X	X	X	X
pool_patch.destroy	X	X				
pool_patch.clean	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pool_patch.precheck	X	X				
pool_patch.pool_apply	X	X				
pool_patch.apply	X	X				
pool_patch.remove_from_other_config	X	X				
pool_patch.add_to_other_config	X	X				
pool_patch.set_other_config	X	X				
pool_patch.get_other_config	X	X	X	X	X	X
pool_patch.get_after_apply_guidance	X	X	X	X	X	X
pool_patch.get_host_patches	X	X	X	X	X	X
pool_patch.get_pool_applied	X	X	X	X	X	X
pool_patch.get_size	X	X	X	X	X	X
pool_patch.get_version	X	X	X	X	X	X
pool_patch.get_name_description	X	X	X	X	X	X
pool_patch.get_name_label	X	X	X	X	X	X
pool_patch.get_uuid	X	X	X	X	X	X
pool_patch.get_by_name_label	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pool_patch.get_by_uuid	X	X	X	X	X	X
pool_patch.get_record	X	X	X	X	X	X
pool.get_all_records	X	X	X	X	X	X
pool.get_all_records_where	X	X	X	X	X	X
pool.get_all	X	X	X	X	X	X
pool.set_vswitch_controller	X	X				
pool.audit_log_append	X					
pool.disable_redo_log	X	X				

pool.enable_redo_log	X	X				
pool.certificate_sync	X	X				
pool.crl_list	X	X				
pool.crl_uninstall	X	X				
pool.crl_install	X	X				
pool.certificate_list	X	X				
pool.certificate_uninstall	X	X				
pool.certificate_install	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pool.send_test_post	X					
pool.retrieve_wlb_recommendations	X	X	X	X	X	X
pool.retrieve_wlb_configuration	X	X	X	X	X	X
pool.send_wlb_configuration	X	X				
pool.deconfigure_wlb	X	X				
pool.initialize_wlb	X	X				
pool.detect_nonhomogeneous_external_auth	X	X				
pool.disable_external_auth	X					
pool.enable_external_auth	X					
pool.disable_binary_storage	X	X				
pool.enable_binary_storage	X	X				
pool.ha_schedule_plan_recomputation						
pool.create_new_blob	X	X				
pool.set_ha_host_failures_to_tolerate	X	X				
pool.ha_compute_vm_failover_plan	X	X				
pool.ha_compute_hypothetical_max_host_failures_to_tolerate	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pool.ha_compute_max_host_failures_to_tolerate	X	X				
pool.ha_failover_plan_exists	X	X				
pool.ha_prevent_restarts_for	X	X				
pool.designate_new_master	X	X				
pool.sync_database	X	X				
pool.disable_ha	X	X				
pool.enable_ha	X	X				
pool.slave_network_report	X					
pool.create_vlan_from_pif	X	X				
pool.create_vlan	X	X				
pool.is_slave	X					
pool.hello	X	X				
pool.recover_slaves	X	X				
pool.emergency_reset_master	X	X				
pool.emergency_transition_to_master	X	X				
pool.initial_auth	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pool.eject	X	X				
pool.join_force	X	X				
pool.join	X	X				
pool.set_wlb_verify_cert	X	X				
pool.set_wlb_enabled	X	X				
pool.remove_from_gui_config	X	X	X	X	X	
pool.add_to_gui_config	X	X	X	X	X	
pool.set_gui_config	X	X	X	X	X	

pool.remove_tags	X	X	X	X	X	
pool.add_tags	X	X	X	X	X	
pool.set_tags	X	X	X	X	X	
pool.set_ha_allow_overcommit	X	X				
pool.remove_from_other_config/key:EMPTY_FOLDERS	X	X	X	X	X	
pool.remove_from_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
pool.remove_from_other_config/key:folder	X	X	X	X	X	
pool.remove_from_other_config	X	X				

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pool.add_to_other_config/key:EMPTY_FOLDERS	X	X	X	X	X	
pool.add_to_other_config/key:XenCenter.CustomFields.*	X	X	X	X	X	
pool.add_to_other_config/key:folder	X	X	X	X	X	
pool.add_to_other_config	X	X				
pool.set_other_config	X	X				
pool.set_crash_dump_sr	X	X				
pool.set_suspend_image_sr	X	X				
pool.set_default_sr	X	X				
pool.set_name_description	X	X				
pool.set_name_label	X	X				
pool.get_vswitch_controller	X	X	X	X	X	X
pool.get_redo_log_vdi	X	X	X	X	X	X
pool.get_redo_log_enabled	X	X	X	X	X	X
pool.get_wlb_verify_cert	X	X	X	X	X	X
pool.get_wlb_enabled	X	X	X	X	X	X
pool.get_wlb_username	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pool.get_wlb_url	X	X	X	X	X	X
pool.get_gui_config	X	X	X	X	X	X
pool.get_tags	X	X	X	X	X	X
pool.get_blobs	X	X	X	X	X	X
pool.get_ha_overcommitted	X	X	X	X	X	X
pool.get_ha_allow_overcommit	X	X	X	X	X	X
pool.get_ha_plan_exists_for	X	X	X	X	X	X
pool.get_ha_host_failures_to_tolerate	X	X	X	X	X	X
pool.get_ha_statefiles	X	X	X	X	X	X
pool.get_ha_configuration	X	X	X	X	X	X
pool.get_ha_enabled	X	X	X	X	X	X
pool.get_other_config	X	X	X	X	X	X
pool.get_crash_dump_sr	X	X	X	X	X	X
pool.get_suspend_image_sr	X	X	X	X	X	X
pool.get_default_sr	X	X	X	X	X	X
pool.get_master	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
pool.get_name_description	X	X	X	X	X	X
pool.get_name_label	X	X	X	X	X	X
pool.get_uuid	X	X	X	X	X	X
pool.get_by_uuid	X	X	X	X	X	X
pool.get_record	X	X	X	X	X	X
event.get_current_id	X	X	X	X	X	X
event.next	X	X	X	X	X	X
event.unregister	X	X	X	X	X	X

event.register	X	X	X	X	X	X
task.get_all_records	X	X	X	X	X	X
task.get_all_records_where	X	X	X	X	X	X
task.get_all	X	X	X	X	X	X
task.cancel	X	X	X	X	X	X
task.destroy	X	X	X	X	X	X
task.create	X	X	X	X	X	X
task.remove_from_other_config/key:XenCenterUUID	X	X	X	X	X	

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
task.remove_from_other_config/key:applies_to	X	X	X	X	X	
task.remove_from_other_config	X	X				
task.add_to_other_config/key:XenCenterUUID	X	X	X	X	X	
task.add_to_other_config/key:applies_to	X	X	X	X	X	
task.add_to_other_config	X	X				
task.set_other_config	X	X				
task.get_subtasks	X	X	X	X	X	X
task.get_subtask_of	X	X	X	X	X	X
task.get_other_config	X	X	X	X	X	X
task.get_error_info	X	X	X	X	X	X
task.get_result	X	X	X	X	X	X
task.get_type	X	X	X	X	X	X
task.get_progress	X	X	X	X	X	X
task.get_resident_on	X	X	X	X	X	X
task.get_status	X	X	X	X	X	X
task.get_finished	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
task.get_created	X	X	X	X	X	X
task.get_current_operations	X	X	X	X	X	X
task.get_allowed_operations	X	X	X	X	X	X
task.get_name_description	X	X	X	X	X	X
task.get_name_label	X	X	X	X	X	X
task.get_uuid	X	X	X	X	X	X
task.get_by_name_label	X	X	X	X	X	X
task.get_by_uuid	X	X	X	X	X	X
task.get_record	X	X	X	X	X	X
role.get_all_records	X	X	X	X	X	X
role.get_all_records_where	X	X	X	X	X	X
role.get_all	X	X	X	X	X	X
role.get_by_permission_name_label	X	X	X	X	X	X
role.get_by_permission	X	X	X	X	X	X
role.get_permissions_name_label	X	X	X	X	X	X
role.get_permissions	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
role.get_subroles	X	X	X	X	X	X
role.get_name_description	X	X	X	X	X	X
role.get_name_label	X	X	X	X	X	X
role.get_uuid	X	X	X	X	X	X
role.get_by_name_label	X	X	X	X	X	X
role.get_by_uuid	X	X	X	X	X	X
role.get_record	X	X	X	X	X	X
subject.get_all_records	X	X	X	X	X	X

subject.get_all_records_where	X	X	X	X	X	X
subject.get_all	X	X	X	X	X	X
subject.get_permissions_name_label	X	X	X	X	X	X
subject.remove_from_roles	X					
subject.add_to_roles	X					
subject.get_roles	X	X	X	X	X	X
subject.get_other_config	X	X	X	X	X	X
subject.get_subject_identifier	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
subject.get_uuid	X	X	X	X	X	X
subject.destroy	X					
subject.create	X					
subject.get_by_uuid	X	X	X	X	X	X
subject.get_record	X	X	X	X	X	X
auth.get_group_membership	X	X	X	X	X	X
auth.get_subject_information_from_identifier	X	X	X	X	X	X
auth.get_subject_identifier	X	X	X	X	X	X
session.logout_subject_identifier	X	X				
session.get_all_subject_identifiers	X	X	X	X	X	X
session.local_logout	X					
session.slave_local_login_with_password	X					
session.slave_local_login	X					
session.slave_login	X					
session.change_password						
session.logout	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

PERMISSION	pool-admin	pool-operator	vm-power-admin	vm-admin	vm-operator	read-only
session.login_with_password	X	X	X	X	X	X
session.remove_from_other_config	X					
session.add_to_other_config	X					
session.set_other_config	X					
session.get_parent	X	X	X	X	X	X
session.get_tasks	X	X	X	X	X	X
session.get_rbac_permissions	X	X	X	X	X	X
session.get_auth_user_sid	X	X	X	X	X	X
session.get_validation_time	X	X	X	X	X	X
session.get_subject	X	X	X	X	X	X
session.get_is_local_superuser	X	X	X	X	X	X
session.get_other_config	X	X	X	X	X	X
session.get_pool	X	X	X	X	X	X
session.get_last_active	X	X	X	X	X	X
session.get_this_user	X	X	X	X	X	X
session.get_this_host	X	X	X	X	X	X
session.get_uuid	X	X	X	X	X	X
session.get_by_uuid	X	X	X	X	X	X
session.get_record	X	X	X	X	X	X

An "X" indicates that the permission listed has already been assigned to that role.

More Information

[XenServer 5.6 Role Based Access Control](#)

CTX126442 - How to Modify Default Role Based Access Control Permissions for XenServer

This document applies to:

- XenServer 5.6
- XenServer 5.6 Common Criteria
- XenServer 5.6 FP 1
- XenServer 5.6 SP 2