

# **OCI Express Utilities Documentation**

**Version V2.0b**

**NOT READY FOR GENERAL RELEASE**

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## Program **Oci-AddBackupPolicy.py**

### Synopsis:

This utility will add the specified backup policy within the specified compartment in the specified region.

CAUTION: This utility requires that the tenancy have a recovery region for backup replication. Backup replication is required to protect applications and data from potential data loss within a region.

CAUTION: Replicated backups are always full copies even when incremental backups are replicated. This is an OCI limitation.

CAUTION: Schedules must still be added to this backup policy. See Oci-AddBackupPolicySchedule.py.

**WARNING!** VM volumes must still be added to backup policies to ensure data and applications are protected from potential data loss.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
Policy Name	string	YES	The descriptive name of this backup policy.
REGION	string in quotes	YES	The region where the resources are located within.
DESTINATION REGION	string in quotes	YES	The destination region that backup copies will be replicated to.

### Example:

```
Oci-AddBackupPolicy.py acad_comp edu_comp edu_bkp "us-ashburn-1" "us-phoenix-1"
```

### Return Values:

Key	Returned	Description
Compartment Name	string	The compartment where the backup policy was created within.

Key	Returned	Description
Backup Policy Name	string	The name of this backup policy.
Region	string	The source region of backups that will be assigned to this backup policy.
Destination Region	string	The destination region where backups will be replicated to.
Policy ID	string	The OCID of this backup policy.

## See Also

<https://docs.oracle.com/en-us/iaas/Content/Block/Tasks/schedulingvolumebackups.htm>

## Program **Oci-AddBackupPolicySchedule.py**

### Synopsis:

This utility will add schedules to the specified backup policy within the specified region. Please refer to the “See Also” section of this document and become familiar with OCI backup policies before adding schedules.

CAUTION: All time for backup schedules are in regional data center time where the vm instances are located at. Adjust accordingly if your local timezone differs from regional data center time.

**WARNING!** VM volumes must still be added to backup policies to ensure data and applications are protected from potential data loss.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
Policy Name	string	YES	The descriptive name of this backup policy.
Backup Type	string	YES	Must be FULL or INCREMENTAL
Day of Week	string	YES	The day of the week the backup will run. This will be ignored for incremental backups but is still a required parameter.
Month of Year	string	YES	The month that the backup will run. Ignored unless a monthly backup but still a required parameter.
Start Hour	integer	YES	The start time between 0 and 23 when the backup will run.

### Examples:

```
Oci-AddBackupPolicySchedule.py $parent edu_comp edu_bkp FULL SATURDAY FEBRUARY 5 monthly 730  
"us-ashburn-1"
```

## Return Values:

Key	Returned	Description
compartment_id	string	The compartment the backup policy resides within.
destination_region	string	The destination region where the backups will replicate to.
display_name	string	The descriptive name of this backup policy.
id	string	The OCID of this backup policy.
schedules	list	A list of the schedules that exist for this backup policy.
time_created	date	The timestamp in UTC time when the backup policy was created.

## See Also

<https://docs.oracle.com/en-us/iaas/Content/Block/Tasks/schedulingvolumebackups.htm>

## Program **Oci-AddChildCompartment.py**

### Synopsis:

This utility creates a child compartment within your OCI tenancy. The child compartment will be subordinate to the specified parent compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to
Child Compartment	string	YES	The descriptive name of the child compartment
Compartment Description	string	YES	

### Example:

```
Oci-AddChildCompartment.py admin_comp auto_comp "This is the computer science department compartment for academic labs"
```

### Return Values:

Key	Returned	Description
compartment_id	string	The OCID of the parent compartment this child compartment is subordinate to.
description	string	The descriptive name of the compartment.
id	string	OCID of the object.
lifecycle-state	string	Should always be ACTIVE.
name	string	The descriptive name of the compartment.
time_created	date	The date stamp in UTC time when the compartment was created.

### More Information

<https://docs.oracle.com/en-us/iaas/Content/Identity/Tasks/managingcompartments.htm>

## Program **Oci-AddDbSystem.py**

### Synopsis:

This utility creates a virtual machine database system in OCI. It does not support bare metal VM nor Exadata database systems. It supports all configuration options for virtual machine databases in the VM.Standard2 class.

CAUTION: OCI virtual machine database systems can run up substantial cloud consumption costs. Be certain your department is sufficiently budgeted for the instance you plan on creating.

CAUTION: Be certain that you are familiar with Oracle's licensing terms and conditions if you plan to select BYOL mode. It is your responsibility to select the correct license mode for your database system based on how your organization is licensed for the product.

**WARNING!** Violating Oracle's licensing terms and conditions may have a serious impact on your organization. Be certain that you select the correct license mode and feature set based on the feature set you are using with the product. If you are out of compliance, you should immediately change your license mode using the OCI console or `Oci-UpdateDbSystemLicenseModel.py`.

RECOMMENDATION: We recommend that you place the parameter values into shell memory variables prior to executing this utility due to the high number of required input parameters.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment into which to create this DBaaS.
Virtual Cloud Network	string	YES	The virtual cloud network this DBaaS will be bound to.
Subnetwork	string	YES	The subnet that will provide an IP address to the DBaaS.
Availability Domain Number	integer	YES	Must be 1, 2, or 3.
Database Container Name	string	YES	The name of the DBaaS's database container. This will set both the container and display name to the same value.
DB Name	string	YES	The name of the database instance.
PDB Name	string	YES	The private database name.
Workload	string	YES	The type of workload for this DBaaS. Use OLTP for transactional systems, or DSS for warehouse workloads.

Parameter	Value	Required?	Comments
Storage Type	string	YES	The type of storage to be built for the DBaaS. Most workloads should use ASM. Use LVM for quick database builds but only for development database instances with very low workloads. Use of LVM for production workloads or test databases with even moderate workloads is not recommended.
Service Node Name	string	YES	The descriptive name of the VM instance that will provide compute service to the DBaaS.
Storage Size	string	YES	The initial storage aggregate size for this DBaaS.
Node Count	integer	YES	Always use 1 unless: Your DBaaS will be deployed with RAC and your organization is licensed for extreme performance edition.
SSH Public Key File	string	YES	The initial SSH key file that will be deployed onto this DBaaS.
Time Zone	string	YES	In international format, the timezone to configure to this DBaaS, such as America/New_York.
Password for DB System	string in quotes	YES	The password to assign to this DBaaS. Your password selection must comply with Oracle 19C or later complexity requirements.
Database Edition	string	YES	Must be STANDARD_EDITION, ENTERPRISE_EDITION, ENTERPRISE_EDITION_HIGH_PERFORMANCE, or ENTERPRISE_EDITION_EXTREME_PERFORMANCE
Database Version	string in quotes	YES	Must correspond to the version of Oracle Database that your application requires. Choices will be constrained if LVM is selected for Storage Type.
Shape	string in quotes	YES	Must be a valid shape within the VM.Standard2 family of compute shapes.
License Model	string	YES	Must be LICENSE_INCLUDED or BRING_YOUR_OWN_LICENSE
REGION	string in quotes	YES	The region where the resources are located within.

## Example:

```
Oci-AddDbSystem.py acad_comp edu_comp edu_vcn edu_sub 2 $dbcontainer $db_name $pdb_name
$workload $s_type $node_name $s_size $node_count $ssh_key_file $t_zone $passwd $edition
$version $shape $license "us-ashburn-1"
```



## Return Values:

Key	Returned	Description
availability_domain	string	The name of the availability domain for this DBaaS.
compartment_id	string	The compartment this DBaaS is a member of.
cpu_core_count	integer	The number of licensed OCPUs to the DBaaS.
data_storage_percentage	float	The percentage of storage allocated, will always be 80% at creation time of the DBaaS.
data_storage_size_in_gbs	integer	The amount of usable storage available to the DBaaS.
database_edition	string	The edition for this DBaaS.
storage_management	string	The storage type that was built for this DBaaS.
disk_redundancy	string	Should always be HIGH.
display_name	string	The descriptive name of this DBaaS.
domain	string	The OCI FQDN of this DBaaS.
fault_domains	string	The OCI fault domain of this DBaaS.
hostname	string	The name of the DBaaS service node.
id	string	The OCID of this DBaaS.
license_model	string	The license model deployed with this DBaaS.
lifecycle_state	string	The lifecycle state of this DBaaS. Will initially be "PROVISIONING" during deployment, but will change to "AVAILABLE" after deployment has succeeded.
listener_port	integer	Should always be 1521, but can be customized.
node_count	integer	May be 1 or 2.
shape	string	The compute shape deployed to the service node of this DBaaS.
ssh_public_keys	string	The SSH public keys that have been deployed to this DBaaS.
subnet_id	string	The OCID of the subnetwork the service node is deployed to.
time_created	date	The timestamp in UTC when this DBaaS was created.

## See Also

<https://docs.oracle.com/en-us/iaas/Content/Database/Concepts/overview.htm>

<https://www.oracle.com/assets/databaselicensing-070584.pdf>

## Program **Oci-AddDrgRemotePeeringConnection.py**

### Synopsis:

This utility will add a dynamic route remote peering connection (RPC) to a dynamic router gateway. RPCs are used to peer virtual cloud networks between OCI regions and OCI tenancies.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment where the RPC exists.
DRG Name	string	YES	The name of the DRG to which this RPC will be applied.
Remote Peering Connection Name	string	YES	The descriptive name of this RPC.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci-AddDrgRemotePeeringConnection.py acad_comp edu_comp edudr_drg edudr_drg_rpc "us-phoenix-1"
```

### Return Values:

Key	Returned	Description
compartment_id	string	The OCID of the compartment this RPC is a member of.
display_name	string	The descriptive name of this RPC.
drg_id	string	The OCID of the DRG this RPC is assigned to.
id	string	The OCID of this RPC.
is_cross_tenancy_peering	boolean	True if peering between tenancies, otherwise False.
lifecycle_state	string	Should always be AVAILABLE.
peer_id	string	Null until peered.
peer_region_name	string	Null until peered.
peer_tenancy_id	string	Null until peered.

Key	Returned	Description
peer_tenancy_id	string	Null until peered.
peering_status	string	May be NEW, PEERED, or "REVOKED".
time_created	date	The timestamp in UTC when this RPC was created.

## See Also

<https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/remoteVCNpeering.htm>

## Program **Oci-AddDynamicRouterGateway.py**

### Synopsis:

This utility creates a dynamic router gateway (DRG) in the specified compartment within the specified region. You must create a virtual cloud network prior to creating the DRG. OCI does not enforce this, but this utility does enforce it.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
VCN Name	string	YES	The name of the virtual cloud network.
Dynamic Router Gateway	string	YES	The name of the security list to apply the ruleset to.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci-AddDynamicRouterGateway.py acad_comp edu_comp edu_vcn edu_drg  
"us-phoenix-1"
```

### Return Values:

Key	Returned	Description
compartment_id	string	The OCID of the compartment this DRG is a member of.
display_name	string	The descriptive name of this DRG.
id	string	The OCID of this DRG.
lifecycle_state	string	The lifecycle state of the DRG, which should always be AVAILABLE.
time_created	date	The timestamp when this route table was created

### More Information

<https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/managingDRGs.htm>

## Program **Oci-AddExport.py**

### Synopsis:

This utility creates an export resource and assigns it to both the specified file system and mount target resources. CAUTION! The file system and the mount target must be in the same availability domain in order for this utility to successfully build the export resource.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
File System	string	YES	The name of the file system that the export resource will bind to.
Mount Target	string	YES	The name of the mount target that the export will bind to.
Path To Export	string in quotes	YES	The "root" path name of the export.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci-AddExport.py acad_comp edu_comp edufsp01 edufsp01_mt "/files"  
"us-ashburn-1"
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment this export is a member of.
File System Name	string	The name of the file system this export is bound to.
Mount Target Name	string	The name of the mount target this export is bound to
Path	string	The root path that will be presented to NFS clients by this export.
Export ID	string	The OCID of this export.

### See Also

<https://docs.oracle.com/en-us/iaas/Content/File/Tasks/managingmounttargets.htm>

## Program **Oci-AddExportFsExportOption.py**

### Synopsis:

This utility creates an export options entry within the specified mount target.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
Mount Target	string	YES	The name of the mount target that the export option will be applied to.
purge_with_addition	boolean	YES	True will purge all export options entries upon addition of this export options entry, False will append this export options entry to the existing list.
REGION	string in quotes	YES	The region where the resources are located within.
--source	string in quotes	YES	The source address of the NFS client that will access this NFS export.
--access	string	NO	The access mode to permit to this export options entry, may be READ_ONLY or READ_WRITE.
--identity-squash	string	NO	The type of identity access to permit to this export options entry, may be ROOT, ALL, or NONE.
--anonymous-uid	Integer	NO	The NFS user ID number to permit access to this export options entry.
--anonymous-gid	Integer	NO	The NFS group ID number to permit access to this export options entry.

### Examples:

```
Oci-AddExportFsExportOption.py acad_comp edu_comp edufsp01_mt true
  "us-ashburn-1" --source "0.0.0.0/0"
```

```
Oci-AddExportFsExportOption.py acad_comp edu_comp edufsp01_mt false
  "us-ashburn-1" --source "10.0.0.0/8" --access READ_ONLY
```

```
Oci-AddExportFsExportOption.py acad_comp edu_comp edufsp01_mt false
  "us-ashburn-1" --source "172.16.0.0/24" --access READ_WRITE
  --identity-squash root
```

**Return Values:**

The export options are returned for each export options entry with the values described above.

**See Also**

<https://docs.oracle.com/en-us/iaas/Content/File/Tasks/exportoptions.htm>

## Program **Oci-AddFileSystem.py**

### Synopsis:

This utility creates a file system object within the specified compartment and builds it within the specified region's availability domain number. There are 3 availability domains per region. The utility does not require the availability domain OCID or name, but rather only requires the numeric representation of the availability domain (1, 2, or 3). See <https://docs.oracle.com/en-us/iaas/Content/General/Concepts/regions.htm> for more information.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
Availability Domain Number	number	YES	Must be 1, 2, or 3.
File System Name	string	YES	The descriptive name of this file system.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci-AddFileSystem.py acad_comp edu_comp 3 edufsp01 "us-ashburn-1"
```

### Return Values:

Key	Returned	Description
compartment_id	string	The OCID of the compartment this DRG is a member of.
File System Name	string	The descriptive name of this file system.
File System ID	string	The OCID of this file system.
Availability Domain	string	The name of the availability domain where the file system has been created.
Status	string	The state of the file system, which should always be ACTIVE.

### See Also

<https://docs.oracle.com/en-us/iaas/Content/File/Tasks/creatingfilesystems.htm>



## Program **Oci-AddInternetGateway.py**

### Synopsis:

This utility creates an internet gateway (IGW) within the specified virtual cloud network in the specified region. CAUTION! It is not recommended to create an IGW in the same compartment that will host a dynamic router gateway (DRG) unless you have multiple subnets as well. An DRG and IGW cannot be referenced in the same route table. This is by OCI design for security reasons. It is notable that this limitation *is not* documented by Oracle. See <https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/managingroutetables.htm> for more information regarding OCI and route tables.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
Virtual Cloud Network	string	YES	The name of the virtual cloud network this IGW will be a member of.
Route Gateway Name	string	YES	The descriptive name of this IGW.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
oci-AddInternetGateway.py acad_comp cmsci_comp cmsci_vcn cmsci_igw "us-ashburn-1"
```

### Return Values:

Key	Returned	Description
Compartment Name	string	The name of the compartment the IGW is a member of.
display_name	string	The name of the IGW.
id	string	The OCID of this IGW.
lifecycle_state	string	The lifecycle state of this NAT gateway, which should always be AVAILABLE.
nat_ip	string	The public IP address the OCI service has assigned to the NAT Gateway.
is_enabled	boolean	True means the IGW is enabled, False means the IGW is disabled.
time_created	date	The timestamp in UTC when this IGW was created

Key	Returned	Description
vcn_id	string	The OCID of the virtual cloud network this IGW is a member of.

**See Also**

<https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/managingIGs.htm>

## Program **Oci-AddLinuxVmsFromCsvFile.py**

### Synopsis:

This utility will create Linux virtual machine instances from the specified CSV input file. The CSV input file may contain the following delimiters: , ; |

A malformed CSV file will result in a RuntimeError returned by the utility.

The CSV file **MUST** have a header defined as the first row with the key values shown on the first column in the table below.

This utility **WILL NOT** create data volumes. To create data volumes, use the OCI console or the utility Oci-AddVolume.py.

This utility **WILL NOT** assign a public IP address to a newly launched VM instance. Use Oci-UpdateVmPubIp.py to assign a public IP address to the VM instance after the instance is created if your application use case requires this.

### CSV Format Values:

Key	CSV Index	Input Type	Description
hostname	0	string	This will be the descriptive name of the VM instance to create.
Virtual Cloud Network	1	string	The name of the virtual cloud network the VM instance will attach to.
Subnetwork	2	string	The name of the subnetwork the VM instance will get its IP address from.
AD Number	3	integer	May be 1, 2, or 3. This will be the availability domain where the VM instance shall reside.
SSH Keyfile	4	string	The fully qualified path to the SSH key file that the "opc user" will be configured for.
Assign Public IP Address	5	boolean	Use True to assign a public IP address to the VM instance, use False to NOT assign a public IP address to the VM. Setting this value to True would require the subnetwork to be configured to permit public IP addresses.
Private IP address	6	string	A unique and unassigned IP address for this VM instance that is in range of the subnetwork's CIDR range of usable IP addresses. The IP address must not already be in use.
Image Name	7	string	The name of an OCI provided image, or the name of a custom image.
Image Compartment	8	string	The compartment where the custom image is stored. Enter the compartment name where the machine instance is being created if using OCI supplied images.

Key	CSV Index	Input Type	Description
Bootvol in Size	9	integer	The size in GBytes of the boot volume. The minimum size of the volume is 50GB. The default performance value of “BALANCED” will be selected when the VM is created.
Shape	10	string	A valid VM instance shape for the type of image being deployed. Supported shapes are within the shape families VM.Standard2, VM.StandardE2, or VM.Standard.E3.Flex.
Memory in GB	11	integer	The amount of memory to be deployed with the shape.
Number of PROCs	12	integer	The number of OCPUs to assign to the VM instance.

### Example:

```
Oci-AddLinuxVmsFromCsvFile.py acad_comp edu_comp "us-ashburn-1" edu_comp_linux_vm_list.csv
```

### Return Values:

The RESTFUL state of each VM instance created by this utility, returned in JSON format.

### See Also

<https://docs.oracle.com/en-us/iaas/Content/Compute/Concepts/computeoverview.htm>

## Program **Oci-AddLocalPeeringGateway.py**

### Synopsis:

This utility creates a local peering gateway within the specified virtual cloud network and region that you specify.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
VCN Name	string	YES	The name of this virtual cloud network.
Local Peering Gateway Name	string	YES	The descriptive name of this local peering gateway name
REGION	string	YES	The region where the virtual cloud network resides within

### Example:

```
Oci-AddLocalPeeringGateway.py acad_comp edu_comp edu_vcn  
EduToComputerScienceLpg "us-ashburn-1"
```

### Return Values:

Returns a message of success if the gateway is created or failure if it is not.

### More Information

<https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/localVCNpeering.htm>

## Program **Oci-AddMountTarget.py**

### Synopsis:

This utility creates a mount target. You must use the same availability domain as you plan on using for the file system resource. A failure to do so will result in errors when you attempt to create file system exports.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
Availability Domain Number	number	YES	Must be 1, 2, or 3.
Virtual Cloud Network	string	YES	The name of the virtual cloud network this mount target will be a member of.
Subnet	string	YES	The name of the subnet the mount target will attach to.
Mount Target Name	string	YES	The descriptive name of this mount target.
Hostname	string	YES	The descriptive name of the host service node that will provide service to this mount target.
IP Address	string in quotes	YES	The IP address that is to be assigned to this mount target.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci-AddMountTarget.py acad_comp edu_comp 3 edu_vcn edu_sub edufsp01_mt edufsp01
"10.0.0.100" "us-ashburn-1"
```

### Return Values:

Key	Returned	Description
Compartment Name	string	The name of the compartment the mount target is a member of
Mount Target Name	string	The descriptive name of this mount target.
Mount Target ID	string	The OCID of this mount target.
Availability Domain	string	The name of the availability domain where the mount target has been created.

Key	Returned	Description
Status	string	The state of the file system, which should always be ACTIVE.

**See Also**

<https://docs.oracle.com/en-us/iaas/Content/File/Tasks/managingmounttargets.htm>

## Program **Oci-AddNatGateway.py**

### Synopsis:

This utility creates a NAT gateway within the specified virtual cloud network.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
Virtual Cloud Network	string	YES	The name of the virtual cloud network this NAT Gateway will be a member of.
NAT Gateway Name	string	YES	The descriptive name of this NAT gateway.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci-AddNatGateway.py acad_comp edu_comp edu_vcn edu_ngw "us-ashburn-1"
```

### Return Values:

Key	Returned	Description
Compartment Name	string	The name of the compartment the NAT Gateway is a member of.
display_name	string	The name of the NAT gateway.
id	string	The OCID of this NAT gateway.
lifecycle_state	string	The lifecycle state of this NAT gateway, which should always be AVAILABLE.
nat_ip	string	The public IP address the OCI service has assigned to the NAT Gateway.
public_ip_id	string	The OCID of the public IP address.
time_created	date	The timestamp in UTC when this NAT gateway was created
vcn_id	string	The OCID of the virtual cloud network this NAT gateway is a member of.

### See Also

<https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/NATgateway.htm>



## Program **Oci-AddNetworkSecurityGroup.py**

### Synopsis:

This utility will create a network security group within the specified virtual cloud network.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment where the RPC exists.
Network Security Group Name	string	YES	The descriptive name of this network security group.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci-AddNetworkSecurityGroup.py acad_comp edu_comp edu_vcn edu_nsg "us-ashburn-1"
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment the security group resides within.
Virtual Cloud Network	string	The name of the virtual cloud network the network security group is a member of.
Network Security Group Name	string	The descriptive name of this network security group.
Lifecycle State	string	The lifecycle state of this resource, which should be AVAILABLE.
NSG ID	string	The OCID of this network security group.

### See Also

<https://docs.oracle.com/en-us/iaas/Content/Network/Concepts/networksecuritygroups.htm>

## Program **Oci-AddParentCompartment.py**

### Synopsis:

This utility creates a parent compartment within your OCI tenancy. The parent compartment will be subordinate to the root “tenancy” compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that you are creating
Compartment Description	string	YES	

### Example:

```
Oci-AddParentCompartment.py admin_comp 'This is the parent admin compartment'
```

### Return Values:

Key	Returned	Description
compartment_id	string	The OCID of the root tenancy compartment
description	string	The descriptive name of the compartment
id	string	OCID of the object
lifecycle-state	string	Should always be ACTIVE
name	string	The descriptive name of the compartment
time_created	date	The date stamp in UTC time when the compartment was created

### More Information

<https://docs.oracle.com/en-us/iaas/Content/Identity/Tasks/managingcompartments.htm>

## Program **Oci-AddRouteRule.py**

### Synopsis:

This utility is used to add route rules to the specified route table.

### Parameters:

Parameter	Value	Required?	Comments
Route Type	string	YES	Valid options include: --ngw-type specify when adding a NAT to route rule. --lpg-type specify when adding a LPG to route rule.
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified gateway in which to get the information
Virtual Cloud Network (VCN)	string	YES	The name of the VCN the route table resides in.
Route Table	string	YES	The name of the route table to add the rule to.
Gateway Name	string	YES	The name of the gateway being added to the route table.
Destination Type	string	YES	Type of destination address
Destination Address	string in quotes	YES	The destination address accounting to the destination type.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Description	string in quotes	YES	The description to be added to the route rule in the router table.
Optional Argument	string	NO	Valid options include: --purge-then-add-route

### Example:

```
Oci-AddRouteRule.py --igw-type admin_comp bas_comp bas_vcn bas_rtb bas_igw \
  CIDR_BLOCK "0.0.0.0/0" "us-ashburn-1" \
  "Inbound traffic from internet to dmz_vcn"
```

**Return Values:**

Key	Returned	Description
Compartment	string	The compartment where the VM is located.
Route Table	string	The name of the route table.
Destination	string	The information of the route destination.
Destination Type	numeric	The type of destination information.
Region	string	The region where the route table is located.
Router Name	string	The name of the router
Router Type	string	The type of router

## Program **Oci-AddRouteTable.py**

### Synopsis:

This utility creates a route table within the specified compartment and region that you specify.

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
VCN Name	string	YES	The name of the virtual cloud network that the route table will be a member of.
Route Table Name	string	YES	The descriptive name of this route table.
REGION	String in quotes	YES	The OCI data center region where this virtual cloud network will be created. The utility creates regional virtual cloud networks that span all availability domains within a region.

### Example:

```
Oci-AddRouteTable.py acad_comp cmsci_comp cmsci_vcn cmsci_rtb "us-ashburn-1"
```

### Return Values:

Key	Returned	Description
compartment_id	string	The OCID of the compartment where this route table was created.
display_name	string	The descriptive name of this route table.
id	string	The OCID of this route table.
lifecycle_state	string	The lifecycle state of this route table, which should always be AVAILABLE.
route_rules	list	A list of route rules for this route table, which is empty upon initial creation.
time_created	date	The timestamp when this route table was created
vcn_id	string	The virtual cloud network the route table is a member of

### More Information

<https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/managingroutetables.htm>

## Program **Oci-AddSecurityList.py**

### Synopsis:

This utility creates a security list within the specified compartment and region that you specify.

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
VCN Name	string	YES	The name of the virtual cloud network that the security list will be a member of.
Security List Name	string	YES	The descriptive name of this security list.
REGION	String in quotes	YES	The OCI data center region where this virtual cloud network will be created. The utility creates regional virtual cloud networks that span all availability domains within a region.

### Example:

```
Oci-AddSecurityList.py acad_comp cmsci_comp cmsci_vcn cmsci_sec "us-ashburn-1"
```

### Return Values:

Key	Returned	Description
compartment_id	string	The OCID of the compartment where this security list was created.
display_name	string	The descriptive name of this security list.
id	string	The OCID of this security list.
lifecycle_state	string	The lifecycle state of this security list, which should always be AVAILABLE.
route_rules	list	A list of route rules for this security list, which is empty upon initial creation.
time_created	date	The timestamp when this security list was created.
vcn_id	string	The virtual cloud network the security list is a member of.

## **More Information**

<https://docs.oracle.com/en-us/iaas/Content/Network/Concepts/securitylists.htm>

## Program **Oci-AddVirtualCloudNetwork.py**

### Synopsis:

This utility creates a virtual cloud network within the child compartment and region that you specify.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
VCN Name	string	YES	The descriptive name of this virtual cloud network.
DNS Label	string	YES	The DNS name for this virtual cloud network. DNS names must follow DNS naming conventions per <a href="https://tools.ietf.org/html/rfc2929">https://tools.ietf.org/html/rfc2929</a>
CIDR	string in quotes	YES	The classless inter-domain routing address of this virtual cloud network. Private IP addressing must be used per <a href="https://tools.ietf.org/html/rfc1918">https://tools.ietf.org/html/rfc1918</a>
REGION	String in quotes	YES	The OCI data center region where this virtual cloud network will be created. The utility creates regional virtual cloud networks that span all availability domains within a region.

### Example:

```
Oci-AddVirtualCloudNetwork.py acad_comp cmsci_comp cmsci_vcn cmscivcn  
"192.168.0.0/20" "us-ashburn-1"
```

### Return Values:

Key	Returned	Description
cidr_block	string	The CIDR address of this virtual cloud network
compartment_id	string	The OCID of the compartment this virtual cloud network is a member of
default_dhcp_options_id	string	The OCID of the DHCP default options resource created with this virtual cloud network



Key	Returned	Description
default_route_table_id	string	The OCID of the default route table created with this virtual cloud network
default_security_list_id	string	The OCID of the security list created with this virtual cloud network
display_name	string	The descriptive name of this virtual cloud network
dns_label	string	The RFC compliant DNS name
id	string	The OCID of this virtual cloud network
lifecycle_state	string	The lifecycle state of the resource. This should always be shown as AVAILABLE
time_created	date	The timestamp in UTC when this resource was created
vcn_domain_name	string	The FQDN of the resource

## More Information

<https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/quickstartnetworking.htm>

## Program **Oci-AddVirtualCloudSubNetwork.py**

### Synopsis:

This utility creates a virtual cloud subnetwork within the specified virtual cloud network and region that you specify.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
VCN Name	string	YES	The name of this virtual cloud network.
Subnet Name	string	YES	The descriptive name that will be given to this virtual cloud subnetwork
Subnet DNS Name	string	YES	The RFC compliant DNS name
Subnet CIDR	string	YES	The classless inter-domain routing address of this virtual cloud subnetwork. Private IP addressing must be used per <a href="https://tools.ietf.org/html/rfc1918">https://tools.ietf.org/html/rfc1918</a>
prohibit public IP address	boolean	YES	Use True if you wish to prevent deployment of public IP addresses to this subnetwork, or False if you wish to permit deployment of public IP addresses to this subnetwork. WARNING! This action cannot be changed after this subnetwork has been created.
Route table name	string	YES	The route table that this subnetwork will default to
Security List Name	string	YES	The security list that this subnetwork will default to
REGION	string	YES	The region where the virtual cloud network resides within

### Example:

```
Oci-AddVirtualCloudSubNetwork.py alpha1_test cmsci_comp cmsci_vcn cmsci_podsub
cmscipodsub "192.168.1.0/24" false cmsci_rtb cmsci_sec "us-ashburn-1"
```

## Return Values:

Key	Returned	Description
cidr_block	string	The CIDR for this virtual cloud subnetwork
compartment_id	string	The OCID of the compartment where this subnet exists
dhcp_options_id	string	The DHCP Options resource assigned to this subnetwork
display_name	string	The descriptive name of this cloud subnetwork
dns_label	string	The RFC compliant DNS name of this cloud subnetwork
id	string	The OCID of this virtual cloud subnetwork
lifecycle_state	string	The lifecycle state of this virtual cloud subnetwork. This value should always be AVAILABLE
prohibit_public_ip_on_vnic	boolean	False if public IP addresses may be assigned, True if public IP address may not be assigned
route_table_id	string	The OCID that this cloud subnetwork will default to using
security_list_ids	list	A list of strings representing the security list OCIDs assigned to this cloud subnetwork. Note the codebase only supports one security list per subnetwork even though OCI can support multiple security list assignments.
subnet_domain_name	string	The FQDN DNS name of this resource
time_created	date	The timestamp in UTC time when this resource was created
vcn_id	string	The OCID of the virtual cloud network this subnet is a member of
virtual_router_ip	string	The IP address of the router interface supporting this subnetwork
virtual_router_mac	string	The MAC address of the router interface

## More Information

<https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/managingVCNs.htm>

## Program **Oci-AddVmToBackupPolicy.py**

### Synopsis:

This utility adds all block storage devices attached to a VM instance to a backup policy.

**WARNING!** This utility must be run again if volumes are added to a VM instance.

**CAUTION:** This utility will not remove a volume from a backup policy even if the VM instance is deleted. The OCI Console or OCI CLI must be used to remove a volume from a backup policy to stop backing up the volume. This may not be desirable since removing a volume from a backup policy means it will no longer be protected from data loss.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Backup Compartment	string	YES	The name of the child compartment where the backup policy exists.
Policy Name	string	YES	The descriptive name of this backup policy.
VM Compartment	string	YES	The compartment where the VM instance exists.
VM Name	string	YES	The name of the VM instance to be added to the backup policy.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
oci-AddVmToBackupPolicy.py admin_comp bak_comp kentdmzt01_backup bas_comp kentdmzt01 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment the VM resides in.
VM	string	The name of the VM instance assigned
Volume	string	The name of the volume instance added to the backup policy.
Policy	string	The name of the volume backup policy assigned
Region	string	The region where the resources are located within.

### See Also

<https://docs.oracle.com/en-us/iaas/Content/Block/Tasks/schedulingvolumebackups.htm>

## Program **Oci-AddVolume.py**

### Synopsis:

This utility will add a block volume into the specified compartment and availability domain. It will not attach the volume to a VM instance. To attach a volume to a VM instance, see Oci-AttachIscsiVolume.py or Oci-AttachParavirtualizedVolume.py.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
Volume Name	string	YES	The descriptive name of this volume.
Availability Domain Number	integer	YES	Must be 1, 2, or 3.
Volume Size in GB	integer	YES	Must be at least 50.
Volume Performance Level	string	YES	Must be LOW, BALANCED, or HIGH
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci-AddVolume.py admin_comp dbs_comp kentrmanp01_datavol_0 2 2048 HIGH 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment Name	string	The name of the compartment where the volume was created.
Volume Name	string	The descriptive name of this volume.
Availability Domain	string	The availability domain where the volume was created.
Size in GBS	integer	The size in GBytes of the volume.
Performance	string	The performance level of the volume. May be LOW, BALANCED, or HIGH
Volume ID	string	The OCID of the volume.

### See Also

<https://docs.oracle.com/en-us/iaas/Content/Block/Concepts/overview.htm>

## \*Program **Oci-AddWindowsVmsFromCsvFile.py**

### Synopsis:

This utility will create Windows virtual machine instances from the specified CSV input file. The CSV input file may contain the following delimiters: , ; |

A malformed CSV file will result in a RuntimeError returned by the utility.

The CSV file **MUST** have a header defined as the first row with the key values shown on the first column in the table below.

This utility **WILL NOT** create data volumes. To create data volumes, use the OCI console or the utility Oci-AddVolume.py.

This utility **WILL NOT** assign a public IP address to a newly launched VM instance. Use Oci-UpdateVmPubIp.py to assign a public IP address to the VM instance after the instance is created if your application use case requires this.

### CSV Format Values:

Key	CSV Index	Input Type	Description
hostname	0	string	This will be the descriptive name of the VM instance to create.
Virtual Cloud Network	1	string	The name of the virtual cloud network the VM instance will attach to.
Subnetwork	2	string	The name of the subnetwork the VM instance will get its IP address from.
AD Number	3	integer	May be 1, 2, or 3. This will be the availability domain where the VM instance shall reside.
Assign Public IP Address	4	boolean	Use True to assign a public IP address to the VM instance, use False to NOT assign a public IP address to the VM. Setting this value to True would require the subnetwork to be configured to permit public IP addresses.
Private IP address	5	string	A unique and unassigned IP address for this VM instance that is in range of the subnetwork's CIDR range of usable IP addresses. The IP address must not already be in use.
Image Name	6	string	The name of an OCI provided image, or the name of a custom image.
Image Compartment	7	string	The compartment where the custom image is stored. Enter the compartment name where the machine instance is being created if using OCI supplied images.
Bootvol in Size	8	integer	The size in GBytes of the boot volume. The minimum size of the volume is 50GB. The default performance value of "BALANCED" will be selected when the VM is created.

Key	CSV Index	Input Type	Description
Shape	9	string	A valid VM instance shape for the type of image being deployed. Supported shapes are within the shape families VM.Standard2, VM.StandardE2, or VM.Standard.E3.Flex.
Memory in GB	10	integer	The amount of memory to be deployed with the shape.
Number of PROCs	11	integer	The number of OCPUs to assign to the VM instance.

### Example:

```
Oci-AddWindowsVmsFromCsvFile.py acad_comp edu_comp "us-ashburn-1" edu_comp_windows_vm_list.csv
```

### Return Values:

The RESTFUL state of each VM instance created by this utility, returned in JSON format.

### See Also

<https://docs.oracle.com/en-us/iaas/Content/Compute/Concepts/computeoverview.htm>

## Program **Oci-AttachIscsiVolume.py**

### Synopsis:

This utility will attach a volume to a VM instance in iSCSI mode. Use this attachment mode when high IO performance is required for access to storage by your applications. You should note that in most cases, attaching a volume in Paravirtualized Mode will suffice. See `Oci-AttachParavirtualizedVolume.py` for more information.

**CAUTION!** The VM instance must be powered on and its OS running in order to attach the volume. You should be familiar with iSCSI commands for your operating system to successfully poll for and use the volume with the OS.

**CAUTION!** The volume must be deployed in the same availability domain that the VM instance is deployed within.

**WARNING!** Do not mix iSCSI and Paravirtualized volumes on the same VM instance.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
Instance Name	string	YES	The name of the instance to attach this volume resource to.
Volume Name	string	YES	The descriptive name of this volume.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci-AttachIscsiVolume.py acad_comp edu_comp eduteachp03 eduteachp03_datadisk_0 "us-ashburn-1"
```

### Return Values:

Key	Returned	Description
VM Name	string	The name of the VM instance.
Volume Name	string	The name of the volume.
Availability Domain	string	The availability domain where the resources are located in.



Key	Returned	Description
Attachment State	string	The lifecycle state of the attachment, should always be ATTACHED when the volume is attached to a VM instance.
Volume ID	string	The OCID of the volume

**See Also**

<https://docs.oracle.com/en-us/iaas/Content/Block/Tasks/attachingavolume.htm>

## Program **Oci-AttachParavirtualizedVolume.py**

### Synopsis:

This utility will attach a volume to a VM instance in Paravirtualized mode. Use this attachment mode when low to balanced performance is required for access to storage by your applications. You should note that in most cases, attaching a volume in Paravirtualized Mode will suffice. See `OOci-AttachIscsiVolume.py` for more information about attaching an iSCSI volume for high IO performance to your application.

CAUTION! The VM instance must be powered on and its OS running in order to attach the volume. You should be familiar with commands for your operating system to successfully poll for and use the volume with the OS.

CAUTION! The volume must be deployed in the same availability domain that the VM instance is deployed within.

**WARNING!** Do not mix iSCSI and Paravirtualized volumes on the same VM instance.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment.
Instance Name	string	YES	The name of the instance to attach this volume resource to.
Volume Name	string	YES	The descriptive name of this volume.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci-AttachVolume.py admin_comp dbs_comp kentrmanp01 kentrmanp01_datavol_0 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
VM Name	string	The name of the VM instance.
Volume Name	string	The name of the volume.
Attachment Type	string	Will return "paravirtualized"
Volume ID	string	The OCID of the volume

### See Also

<https://docs.oracle.com/en-us/iaas/Content/Block/Tasks/attachingavolume.htm>

## Program **Oci>CreateDrgAttachment.py**

### Synopsis:

This utility attaches a DRG to a virtual cloud network.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment where the RPC exists.
Virtual Cloud Network	string	YES	The name of the virtual cloud network to attach this DRG to.
Dynamic Router Gateway Name	string	YES	The name of the DRG to attach to the virtual cloud network.
Route Table	string	YES	The name of the route table to associate with this DRG attachment.
DRG Attachment Name	string	YES	The descriptive name of this DRG.
REGION	string in quotes	YES	The region where the resources are located within.

### Example:

```
Oci>CreateDrgAttachment.py acad_comp edu_comp edu_vcn edu_drg edu_rtb edu_drg_attachment  
"us-ashburn-1"
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment the security group resides within.
Virtual Cloud Network	string	The name of the virtual cloud network the network security group is a member of.
Dynamic Router Gateway	string	The name of the DRG.
DRG Attachment Name	string	The descriptive name of this DRG Attachment
Lifecycle State	string	The lifecycle state of this resource, which should be AVAILABLE.

Key	Returned	Description
DRG ID	string	The OCID of this DRG.

## See Also

<https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/managingDRGs.htm>

## Program **Oci>CreateDrgRpcConnection.py**

### Synopsis:

This utility creates an RPC connection between two regions within the same tenancy. It cannot be used to create an RPC peering connection between different regions. Use the OCI console to create an RPC peering connection between different regions.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment where the RPC exists.
DRG	string	YES	The name of the DRG that will initiate the RPC connection.
RPC	string	YES	The name of the RPC on the initiating side of the connection.
REGION	string in quotes	YES	The region of the RPC initiating the remote peering connection.
Peer Parent Compartment	string	YES	The name of the parent compartment that holds the remote RPC.
Peer Child Compartment	string	YES	The name of the remote child compartment that holds the remote RPC.
Peer DRG	string	YES	The name of the remote DRG.
Peer RPC	string	YES	The name of the remote RPC.
Peer Region	string in quotes	YES	The name of the remote RPC's region.

### Example:

```
Oci>CreateDrgRpcConnection.py acad_comp edu_comp edu_drg edu_drg_rpc "us-ashburn-1"
    acad_comp edu_comp edudr_drg edudr_drg_rpc "us-phoenix-1"
```

### Return Values:

A message indicating success or failure to remove the DRG connection.

### See Also

<https://docs.oracle.com/en-us/iaas/Content/Network/Tasks/managingDRGs.htm>

## Program **Oci>CreateKbCluster.py**

### Synopsis:

This utility creates a Kubernetes cluster service within the specified compartment and region.

CAUTION: Be certain to deploy the cluster with good-to-go code that is not too old. The cluster software changes with frequency. It is not uncommon for a cloud provider to release on defective cluster code.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The name of the child compartment where this Kubernetes cluster service will be deployed.
Virtual Cloud Network	string	YES	The name of the virtual cloud network the cluster will bind to.
Subnetwork	string	YES	The subnetwork that will assign an IP address to the cluster.
Cluster Name	string	YES	The descriptive name of this Kubernetes cluster.
Kubernetes Version	string in quotes	YES	The version of Kubernetes to push to the cluster service's backplane.
REGION	string in quotes	YES	The region where these resources will be created.

### Example:

```
Oci>CreateKbCluster.py acad_comp edu_comp edu_vcn edu_sub edukbct01 "v1.17.9" "us-ashburn-1"
```

### Return Values:

Key	Returned	Description
compartment_id	string	The compartment where this Kubernetes cluster service was created within.
id	string	The OCID of this cluster creation work request.
action_type	string	The resulted action of the create request, should be CREATED, but could also be FAILED, FAULTY, or TERMINATED.
status	string	The success or failure of the work request, may only be SUCCESS or FAILURE.
time_accepted	date	The timestamp in UTC when the request was accepted for creation.

Key	Returned	Description
time_finished	date	The timestamp in UTC when the request was completed.
time_started	date	The timestamp in UTC when the request was started.

## See Also

<https://docs.oracle.com/en-us/iaas/Content/ContEng/Concepts/contengoverview.htm>

<https://github.com/kubernetes/kubernetes/releases>



## Program **Oci>CreateLpgPeerConnection.py**

### Synopsis:

This utility establishes an LPG peering connection between virtual cloud networks within the same region.

### Parameters:

Parameter	Value	Required?	Comments
Source Parent Compartment	string	YES	The compartment that holds the source LPG that will initiate the peering connection.
Source Child Compartment	string	YES	The child compartment that holds the actual source LPG resource.
Source Virtual Cloud Network	string	YES	The source network that the source LPG resource is attached to.
Source LPG Router	string	YES	The source LPR resource.
Target Parent Compartment	string	YES	The parent compartment of the target LPG resource.
Target Child Compartment	string	YES	The target child compartment that holds the target LPG resource.
Target Virtual Cloud Network	string	YES	The target virtual cloud network that the target LPG resource is bound to.
Target LPG Router	string	YES	The target LPG resource.
REGION	string in quotes	YES	The region where these resources will be created.

### Example:

```
Oci>CreateLpgPeerConnection.py acad_comp cmsci_comp cmsci_vcn CompSciToEducationLpg acad_comp  
edu_comp edu_vcn EducationToCompSciLpg "us-ashburn-1"
```

### Returned Values:

A message indicating success or failure in creating the LPG connection.

## Program **Oci>CreateNodePool.py**

### Synopsis:

This utility creates a nodepool and attaches it to the specified Kubernetes cluster service.

CAUTION: A nodepool may be created up to the current running version of the cluster service. You should check the version stability of the version you choose to deploy at GitHub.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The parent compartment that holds the Kubernetes cluster service.
Child Compartment	string	YES	The child compartment where the cluster service is located at, which will also hold the nodepool.
Virtual Cloud Network	string	YES	The virtual cloud network that the cluster service and the nodepool bind to.
Subnetwork	string in quotes	YES	The subnet to assign to the nodepool. This must be a dedicated subnetwork used only for the nodepool.
Cluster Name	string	YES	The name of the cluster service.
Nodepool Name	string	YES	The descriptive name of this nodepool.
Kubernetes Version	string in quotes	YES	The version to deploy to this Kubernetes nodepool.
Shape	string	YES	The machine shape to deploy the VM instances on.
Boot Vol Size in GBS	integer	YES	The size in GBytes of each node's boot volume. We recommend a starting size of 65GBytes for small clusters,
Nodes Per Subnet	integer	YES	The number of nodes per subnet. This may be 1,2, or 3, or multiples of 3 thereafter.
REGION	string in quotes	YES	The region where these resources will be created.

### Example:

```
Oci>CreateNodePool.py acad_comp edu_comp edu_vcn edu_podsub edukbct01 edukbct01_np00
v1.16.15" "VM.Standard2.1" "Oracle-Linux-7.9-2020.11.10-1" 65 3 "us-ashburn-1"
```

**Return Values:**

Key	Returned	Description
compartment_id	string	The OCID of the compartment where this nodepool was created.
id	string	The OCID of this nodepool.
resources	list	A list of the nodepool resources that were created.
status	string	SUCCEEDED on success, or FAILED on failure.
time_accepted	date	The timestamp in UTC when the resource creation request was received.
time_finished	date	The timestamp in UTC when the resource request was completed.
time_started	date	The timespamp in UTC when the resource request was started.

## Program **Oci-DeleteBackupPolicy.py**

### Synopsis:

This utility deletes the specified backup policy.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Policy Name	string	YES	The name of the backup policy name
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Destination Region	string in quotes	YES	The name of the region the backup policy is to be replicated to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteBackupPolicy.py admin_comp bak_comp kentdmzt01_backup 'us-ashburn-1' --force
```

### Return Messages:

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to delete backup policy TEST\_POLICY from compartment bak\_comp within region us-ashburn-1  
YES

Backup policy TEST\_POLICY deleted from compartment bak\_comp.

## Program **Oci-DeleteBackupPolicySchedule.py**

### Synopsis:

This utility deletes the specified backup policy schedule in the specified backup policy.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Policy Name	string	YES	The name of the backup policy name
Backup Type	string	YES	The type of backup: "FULL" or "INCREMENTAL"
Backup Frequency	string	YES	The frequency of the backup: "DAILY" or "WEEKLY" "MONTHLY" "YEARLY"
Start Hour	numeric	YES	The hour the backup should start "0" to "23"
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteBackupPolicySchedule.py admin_comp bak_comp kentdmzt01_backup FULL YEARLY 23 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Schedule Type	string	The type of backup: "FULL" or "INCREMENTAL"
Day of Month	interger	The numeric day of the month.
Day of Week	string	The name of the day of the week.
Start Time	interger	The hour the backup should start "0" to "23"
Month	string	The name of the month the backup occurs.
Frequency	string	The frequency of the backup: "DAILY" or "WEEKLY" "MONTHLY" "YEARLY"
Backup Retention in Days	interger	The numeric number of days to retain the backups.

## Program **Oci-DeleteBootVolume.py**

### Synopsis:

This utility deletes the boot volume from the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Boot Volume Name	string	YES	The name of the boot volume to delete.
Region	string in quotes	YES	The name of the region the backup policy is to be added to.

### Example:

```
Oci-DeleteBootVolume.py acad_comp edu_comp 'EDUTEACHT01 (Boot Volume)' 'us-ashburn-1' --force
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to proceed with deletion of boot volume kentwft01 (Boot Volume) or press enter to abort.

YES

Deleting volume.....

Boot volume deletion completed successfully.

COMPARTMENT	BOOT VOLUME	LIFECYCLE STATE	REGION
-----	-----	-----	-----
dba_comp	kentwft01 (Boot Volume)	TERMINATED	us-ashburn-1

## Program **Oci-DeleteChildCompartment.py**

### Synopsis:

This utility deletes the specified child compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteChildCompartment.py admin_comp auto_comp --force
```

### Messages:

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
ARE YOU SURE THAT YOU WANT TO DO THIS?
```

```
Enter 'YES' to proceed to remove child compartment alphal_test, or any other key to exit  
YES
```

```
Child compartment TEST_COMPARTMENT remove request submitted.
```

## Program **Oci-DeleteDbSystem.py**

### Synopsis:

This utility terminates the specified DB system.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
DB System Name	string	YES	The name of the database system to be deleted.
Region	string in quotes	YES	The name of the region the backup policy is to be added to.

### Example:

```
Oci-DeleteDbSystem.py admin_comp dbs_comp KENTBNRCDB 'us-ashburn-1'
```

### Messages:

Fetching and verifying tenant resource data. Please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

This program will delete the DB sytem TESTCDB from child compartment edu\_comp within region us-ashburn-1

There is no recovery from this operation once started.

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Press any key to continue to the next prompt.

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Delete request for DB System TESTCDB in compartment edu\_comp in region us-ashburn-1

You are about to destroy and delete this DB System. Make sure you have good backups if required and that you are certain this is something that is is an approved action.

Enter PROCEED\_TO\_DELETE\_DB\_INSTANCE and press enter to confirm, or just press the enter key to abort.  
PROCEED\_TO\_DELETE\_DB\_INSTANCE

Deleting of DB System TESTCDB has been started and cannot be reversed, please wait.....

The DB System TESTCDB has been deleted from compartment edu\_comp within region us-ashburn-1.



## Program **Oci-DeleteDrgAttachment.py**

### Synopsis:

This utility deletes the the specified attachment in the referenced DRG.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified parent compartment in which to get the information
Virtual Cloud Network	string	YES	The name of the VCN where the DRG resides
Dynamic Router Gateway	string	YES	The name of the DRG where the attachment will be deleted
DRG Attachment Name	string	YES	The name of the attachment to delete in the DRG
Region	string in quotes	YES	The name of the region the backup policy is to be added to.

### Example:

```
Oci-DeleteDrgAttachment.py admin_comp vpn_comp vpn0_vcn vpn0_drg vpn0_drg_attachment 'us-ashburn-1'
```

### Messages:

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

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WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to delete DRG attachment drgtest\_drg\_attachment from virtual cloud network drgtest\_vcn  
YES

Successfully disassociated dynamic router gateway drgtest\_drg from virtual cloud network drgtest\_vcn

## Program **Oci-DeleteDrgRemotePeeringConnection.py**

### Synopsis:

This utility deletes the DRG remote peering connection.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified parent compartment in which to get the information
Dynamic Router Gateway	string	YES	The name of the DRG where the RPC connection will be deleted.
Remote Peering Connection Name	string	YES	The name of the RPC to be deleted from the DRG.
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteDrgRemotePeeringConnection.py admin_comp vpn_comp vpn_drg vpn_drg_rpc 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to proceed with deleting the remote peering connection drgtest\_drg\_primaryregion\_rpc from Dynamic router gateway drgtest\_drg  
YES

Deleting the remote peering connection resource. This can take up to 5 minutes to complete.....

Deletion of remote peering gateway drgtest\_drg\_primaryregion\_rpc from dynamic router gateway drgtest\_drg was successful.

## Program **Oci-DeleteDynamicRouterGateway.py**

### Synopsis:

This utility updates the performance setting of the specified volume.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified parent compartment in which to get the information
Virtual Cloud Network	string	YES	The name of the VCN where the DRG resides
Dynamic Router Gateway	string	YES	The name of the DRG where the RPC connection will be deleted.
Region	string in quotes	YES	The name of the region the DRG resides.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteDynamicRouterGateway.py admin_comp vpn_comp vpn0_vcn vpn0_drg 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to remove dynamic router gateway resource drgtest\_drg from virtual cloud network  
drgtest\_vcn

YES

Removal of dynamic router gateway resource drgtest\_drg successful from virtual cloud network  
drgtest\_vcn

## Program **Oci-DeleteExport.py**

### Synopsis:

This utility deletes the export from the file system and mount target.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
File System	string	YES	The name of the file system associated with the mount target.
Mount Target	string	YES	The name of the mount target to be deleted.
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteExport.py admin_comp dbs_comp KENTFST01 KENTFST01_MT 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to delete the export associated with mount target exptestfst01\_mt and file system exptestfst01 , or any other key to abort

YES

Deleting export path from mount target exptestfst01\_mt and file system exptestfst01

Please wait.....

Deletion of export from mount target exptestfst01\_mt and file system exptestfst01 completed successfully.

COMPARTMENT	FILE SYSTEM NAME	MOUNT TARGET NAME
-----	-----	-----
exptest_comp	exptestfst01	exptestfst01_mt

EXPORT ID

-----  
ocid1.export.oc1.iad.aaaaacvippxuhcpqnfqwillqojxwiotjmfsc2ylefuyqaaaa

## Program **Oci-DeleteExportFsExportOption.py**

### Synopsis:

This utility deletes the export option from the export within the mount target.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Mount Target	string	YES	The name of the mount target to remove the export from.
Source	string	YES	The name of the source that is associated with the mount target.
Region	string in quotes	YES	The name of the region the mount target is associated with.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteExportFsOption.py admin_comp dbs_comp KENTFST01_MT '172.16.0.57' 'us-ashburn-1'
```

### Messages:

```
Fetching and validating tenancy resource data.....
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to delete source 192.168.1.11/32 from the mount target exptestfst01_mt export option
entries, or any other key to abort
YES

Export option for source 192.168.1.11/32 successfully deleted from mount target exptestfst01_mt
export option entries.
```

## Program **Oci-DeleteFileSystem.py**

### Synopsis:

This utility deletes the specified file system within the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
File System Name	string	YES	The name of the file system to delete
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteFileSystem.py admin_comp dbs_comp KENTFST01 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to proceed with deletion of file system exptestfst01 from compartment exptest\_comp , or any other key to abort

YES

Deleting the file system, please wait.....

File system deletion is completed, please review the results below:

```
COMPARTMENT    FILE SYSTEM NAME
-----
exptest_comp   exptestfst01
```

```
FILE SYSTEM ID                                     AVAILABILITY DOMAIN
-----
ocid1.mounttarget.oc1.iad.aaaaaa4np2s3ncupnfqwillqojxwiotjmfsc2ylefuyqaaaa clNq:US-ASHBURN-AD-3
```

```
STATUS
-----
DELETED
```

## Program **Oci-DeleteInternetGateway.py**

### Synopsis:

This utility deletes the internet gateway resource from within the virtual cloud network.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified parent compartment in which to get the information
Virtual Cloud Network	string	YES	The name of the VCN the IGW resides
Internet Gateway	string	YES	The name of the IGW
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteInternetGateway.py admin_comp auto_comp auto_vcn auto_igw 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to remove internet gateway exptest\_igw from virtual cloud network exptest\_vcn  
YES

Internet gateway exptest\_igw successfully removed from virtual cloud network exptest\_vcn

## Program **Oci-DeleteKbCluster.py**

### Synopsis:

This utility deletes the cluster from the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Cluster Name	string	YES	The name of the docker cluster to be deleted.
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force                      Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteKbCluster.py acad_comp math_comp MATHKBC01 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to proceed with deleting cluster alphasstc01 or any other key to abort  
YES

Cluster alphasstc01 delete request initiated from compartment kbc\_comp within region us-ashburn-1

This delete operation could take up to 20 minutes to complete.



## Program **Oci-DeleteLocalPeeringGateway.py**

### Synopsis:

This utility deletes the local peering gateway.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Virtual Cloud Network	string	YES	The name of the vcn where the LPG resides
Local Peering Gateway	string	YES	The name of the LPG to be deleted
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

```
Oci-DeleteLocalPeeringGateway.py admin_comp auto_comp auto_vcn auto_to_dbs_lpg 'us-ashburn-1'
```

### Example:

### Messages:

```
Fetching and validating tenancy resource data, please wait.....
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
Enter YES to proceed with removal of LPG DrgToExpLpg or any other key to abort
YES
```

```
Removal of LPG DrgToExpLpg from virtual cloud network drgtest_vcn successful.
```

## Program **Oci-DeleteMountTarget.py**

### Synopsis:

This utility deletes the specified mount target within the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Mount Target Name	string	YES	The name of the mount target to delete
Region	string in quotes	YES	The name of the region the backup policy is to be added to.

### Example:

```
Oci-DeleteMountTarget.py admin_comp dbs_comp KENTFST01_MT 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to proceed with deletion of mount target exptestfst01\_mt from compartment exptest\_comp within region us-ashburn-1, or any other key to abort

YES

Deleting mount target, please wait.....

Mount target deletion is complete. Please inspect the results below:

```
COMPARTMENT      MOUNT TARGET NAME
-----
exptest_comp     exptestfst01_mt
```

```
MOUNT TARGET ID                                     STATUS
-----
ocid1.mounttarget.oc1.iad.aaaaaa4np2s3ncupnfgwillqojxwiotjmfsc2ylefuyqaaaa DELETED
```

## Program **Oci-DeleteNatGateway.py**

### Synopsis:

This utility deletes the NAT gateway to the specified virtual cloud network.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Virtual Cloud Network	string	YES	The name of the vcn where the LPG resides
Local Peering Gateway	string	YES	The name of the LPG the NAT is in that to be deleted
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteNatGateway.py admin_comp auto_comp auto_vcn auto_ngw 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to delete NAT gateway drgtest\_ngw or any other key to abort  
YES

Nat gateway drgtest\_ngw successfully deleted from virtual cloud network drgtest\_vcn

## Program **Oci-DeleteNodePool.py**

### Synopsis:

This utility deletes the specified node pool from the specified cluster.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Cluster Name	string	YES	The name of the docker cluster.
Node Pool Name	string	YES	The name of the node pool in the specified cluster.
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteNodePool.py acad_comp math_comp MATHKBC01 MATHKBC01_NP01 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to proceed with deletion of nodepool alphasstc01\_np00 from cluster alphasstc01 or any other key to abort

YES

Deletion of nodepool alphasstc01\_np00 from cluster alphasstc01 completed.

## Program **Oci-DeleteParentCompartment.py**

### Synopsis:

This utility deletes the parent compartment object that is subordinate to the root tenancy compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteParentCompartment.py admin_comp
```

### Messages:

```
Fetching and validating tenancy resource data, please wait.....
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
ARE YOU SURE THAT YOU WANT TO DO THIS?
```

```
Enter 'YES' to proceed to remove parent compartment mytest_comp, or any other key to exit  
YES
```

```
Parent compartment mytest_comp remove request submitted.
```

## \*Program **Oci-DeleteRouteRule.py**

### Synopsis:

This utility deletes an LPG route rule from the specified route table.

### Parameters:

Parameter	Value	Required?	Comments
Route Type	string	YES	Valid options include: --ngw-type      specify when adding a NAT to route rule. --lpg-type     specify when adding a LPG to route rule. --igw-type     specify when adding a IGW to route rule. --drg-type     specify when adding a DRG to route rule.
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified parent compartment in which to get the information
Virtual Cloud Network	string	YES	The name of the VCN
Route Table	string	YES	The name of the route table the route rule resides.
Gateway Name	string	YES	The gateway name associated with the route table.
Destination Type	string	YES	The type of reference for the destination address.
Destination Address	string	YES	The destination address of the route rule to be deleted.
Region	string in quotes	YES	The name of the region the backup policy is to be added to.

### Example:

```
OciDeleteRouteTable.py --lpg-type admin_comp auto_comp auto_vcn auto_rtb auto_to_web_lpg
CIDR_BLOCK '10.1.6.0/23' 'us-ashburn-1'
'This is the route to the production app tier virtual cloud network'
```

### Messages:

Returns the data for the remaining items in the gateway in json format.

## Program **Oci-DeleteRouteTable.py**

### Synopsis:

This utility updates the performance setting of the specified volume.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
VCN Name	string	YES	The name of the VCN the router table resides.
Route Table Name	string	YES	The name of the router table to be deleted.
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteRouteTable admin_comp web_comp web_vcn web_rtb 'us-ashburn-1' --force
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to delete route table dmz\_rtb from virtual network edu\_vcn, or any other key to abort :

YES

Route table dmz\_rtb deleted from virtual cloud network edu\_vcn

## Program **Oci-DeleteSecurityList.py**

### Synopsis:

This utility deletes the network security list to the specified virtual cloud network.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Virtual Network	string	YES	The name of the VCN.
Security List Name	string	YES	The name of the security list to be deleted.
Region	string in quotes	YES	The name of the region the security list is to be deleted.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteSecurityList.py admin_comp auto_comp auto_vcn auto_sec 'us-ashburn-1'
```

### Messages:

```
Fetching and validating tenancy resource data, please wait.....
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
Enter YES to proceed with deleting network security rule edudmz_nsg within virtual cloud network
edu_vcn
YES
```

```
Removal of network security group edudmz_nsg successful.
```



## Program **Oci-DeleteVirtualCloudNetwork.py**

### Synopsis:

This utility deletes the virtual cloud network within the specified child compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
VCN Name	string	YES	The name of the VCN to be deleted.
Region	string in quotes	YES	The name of the region the VCN is to be deleted.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteVirtualNetwork.py admin_comp auto_comp auto_vcn autovcn 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to delete virtual cloud network edu2\_vcn from child compartment edu\_comp, or any other key to abort :

YES

Virtual cloud network edu2\_vcn deleted from child compartment edu\_comp

## Program **Oci-DeleteVirtualCloudSubNetwork.py**

### Synopsis:

This utility deletes virtual cloud subnetwork within the specified virtual cloud network.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
VCN Name	string	YES	The name of the VCN the subnetwork resides.
Subnet Name	string	YES	The name of the subnet to be deleted.
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteVirtualCloudSubNetwork.py admin_comp auto_comp auto_vcn auto_sub01 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to delete virtual cloud subnetwork edu2\_sub from child compartment edu\_comp, or any other key to abort :

YES

Cloud subnetwork edu2\_sub deleted from child compartment edu\_comp

## Program **Oci-DeleteVM.py**

### Synopsis:

This utility deletes the specified virtual machine within the specified compartment and region.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
VM Name	string	YES	The name of the VM to be deleted.
Preserve Disks	boolean	YES	The option to preserve or delete the associated disks. "TRUE/FALSE"
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteVM.py admin_comp tst_comp DKCESMT01 True 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to delete VM instance kentansp01 from compartment auto\_comp within region us-ashburn-1 or any other key to abort  
YES

Delete request for VM kentansp01 submitted, please wait.....

VM successfully deleted. Please inspect the results below.

VM NAME	LIFECYCLE STATE	COMPARTMENT	REGION
-----	-----	-----	-----
kentansp01	TERMINATED or TERMINATING	auto_comp	us-ashburn-1

This VM instance has no data disks to delete.

## Program **Oci-DeleteVmFromBackupPolicy.py**

### Synopsis:

This utility updates the performance setting of the specified volume.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
VM Name	string	YES	
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

### Messages:

```
Oci-DeleteVmFromBackupPolicy.py admin_comp bas_comp kentdmzt01 'us-ashburn-1'
```

```
Fetching and validating tenancy resource data, please wait.....
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
Enter YES to Delete backup the backup policy assignment to VM eduteachp01 or enter to abort.
```

```
YES
```

```
Any backup policy assignments for VM eduteachp01 in compartment edu_comp within region us-ashburn-1 have been deleted.
```

```
This VM will no longer be backed up.
```

## Program **Oci-DeleteVmFromNetworkSecurityGroup.py**

### Synopsis:

This utility deletes the VM's primary virtual network interface from the VM's primary VNIC.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Virtual Machine	string	YES	The name of the VM to be removed from the NSG
Region	string in quotes	YES	The name of the region the backup policy is to be added to.

### Example:

```
Oci-DeleteVmFromNetworkSecurityGroup.py admin_comp tst_comp kentesmt01 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

Deleting virtual machine instance kentanst02 from all network security groups.....

Update successful, please inspect the results below.

```
+-----+-----+-----+
| VIRTUAL MACHINE | VNIC NAME           | SECURITY GROUP ASSIGNMENT |
+-----+-----+-----+
| kentanst02      | kentanst02_vnic_00 |                          |
+-----+-----+-----+

+-----+-----+-----+
| VNIC ID                                                |
+-----+-----+-----+
| ocid1.vnic.oc1.iad.abuwcljrcmpf7j6wyq2wljmoovgzimsxw35ev6ym41lqdcnf6kxk2bn6a |
+-----+-----+-----+
```

## Program **Oci-DeleteVolume.py**

### Synopsis:

This utility deletes the volume from the specified child compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Volume Name	string	YES	The name of the volume to be deleted.
Region	string in quotes	YES	The name of the region the volume is to be deleted.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DeleteVolume.py admin_comp dbs_comp kentrmanp01_datavol_0 'us-ashburn-1'
```

### Messages:

Fetching and validating tenancy resource data, please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter YES to proceed with deletion of volume TEST\_VOLUME from compartment bas\_comp or any other key to abort:

YES

Deleting volume TEST\_VOLUME from compartment bas\_comp, please wait.....

Volume deletion successful. Please inspect the results below.

COMPARTMENT	VOLUME	AVAILABILITY DOMAIN	LIFECYCLE STATE	REGION
-----	-----	-----	-----	-----
bas_comp	TEST_VOLUME	clNq:US-ASHBURN-AD-1	TERMINATED	us-ashburn-1

## Program **Oci-DetachVolume.py**

### Synopsis:

This utility detaches the volume from the specified VM instance.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
VM Instance Name	string	YES	The name of the VM to detach the volume from.
Volume Name	string	YES	The name the volume to be deleted.
Region	string in quotes	YES	The name of the region the backup policy is to be added to.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-DetachVolume.py admin_comp dba_comp kentrmanp01 kentrmanp01_datavol_0 'us-ashburn-1'
```

### Messages:

```
Fetching and validating tenancy resource data, please wait.....
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!
```

```
Enter YES to proceed to detach volume TEST_VOLUME_1 from VM instance kentdmzt03, or any other key to abort.
```

```
YES
```

```
Detaching volume TEST_VOLUME_1 from VM instance kentdmzt03. Please wait.....
```

```
Volume detachment successful, please inspect the results below.
```

## Program **Oci-ExportSecurityList.py**

### Synopsis:

This utility exports the security list rules of the specified network security list.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified security list in which to get the information
Virtual Network	string	YES	The name of the VCN to get the information about
Network Security List	string	YES	The name of the network security list to export
Region	string in quotes	YES	Then name of the region where the compartment resides.

### Example:

```
Oci-ExportSecurityList.py admin_comp auto_comp auto_vcn auto_sec 'us-ashburn-1'
```

**No Return Values for this script.**



## Program **Oci-GetBackupPolicy.py**

### Synopsis:

This utility lists all backup policies in the child compartment and can optionally list them by name.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment where the backup policies are located.
Policy Name or list_all_policies	string	YES	The name of the policy to be listed OR "list_all_policies" to get a summery list of all of the policies in the specified compartment.
REGION	string in quotes	YES	The region where these resources will be created.

### Example:

```
Oci-GetBackupPolicy.py admin_comp bak_comp list_all_policies 'us-ashburn-1'
```

### Return Values for a specified policy:

Key	Returned	Description
COMPARTMENT	string	The OCID of the compartment where the backup policies were created.
POLICY	string	The name of the policy specified
POLICY_ID	string	The OCID of this policy.
SCHEDULE TYPE	string	Either FULL or INCREMENTAL
DAY OF MONTH	integer	The number of the day of the month
DAY OF WEEK	string	The TEXT of the days of the week
START TIME	integer	The hour of the start time in 24 hour format
MONTH	string	The TEXT of the name of the month
FREQUENCY	string	"ONE_DAY", "ONE_WEEK", "ONE_MONTH", or "ONE_YEAR"
BACKUP RETENTION IN DAYS	integer	The number of days the backups are retained, as set in the policy.

## Program **Oci-GetChildCompartment.py**

### Synopsis:

This utility lists all child compartments in the parent compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information or “list_all_child_compartments” to get a summarization list of all of the child compartments that are in the specified parent compartment.
Optional Argument	string	NO	The optional arguments ‘—ocid’

### Example:

```
oci-GetChildCompartment.py admin_comp auto_comp
```

### Return Values:

Key	Returned	Description
COMPARTMENT	string	The name of the compartment specified in the child department parameter
DESCRIPTION	string	The name of the policy specified
LIFECYCLE STATE	string	The OCID of this policy.

## Program **Oci-GetDbSystem.py**

### Synopsis:

This utility lists the database systems in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment where the backup policies are located.
Db System Name	string	YES	The name of the policy to be listed OR "list_all_db_systems" to get a list of all of the policies in the specified compartment.
Region	string in quotes	YES	The region where these resources will be created.
Optional Argument	string	NO	The optional arguments

### Example:

```
Oci-GetDbSystem.py admin_comp dbs_comp list_all_db_systems 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Availability Domain	string in quotes	The name of the availability domain for the database system.
Compartment Id	string in quotes	The OCID of the compartment where the database was created.
CPU Core Count	integer	The number of CPU cores in use by this database system.
Data Storage Percentage	integer	The numeric percentage of the storage used in the data area.
Data Storage Size In GBs	integer	The size of the data storage in Gigabytes.
Database Edition	string in quotes	The edition of Oracle in use.
Disk Redundancy	string in quotes	The level of disk redundancy.
Domain	string in quotes	The domain the database is in.

Key	Returned	Description
Fault Domains	string in quotes	The fault domain the database container is in.
Hostname	string in quotes	The hostname of the database.
Id	string in quotes	The OCID of the database.
License Model	string in quotes	The license model the database is using.
Lifecycle State	string in quotes	The current lifecycle state of the database.
Listener Port	integer	The numeric port the listener is listening on for database connections.
Node Count	integer	The number of nodes in the DBaaS.
RECO Storage Size in GB	integer	The numeric size of the RECO storage in Gigabytes.
Shape	string in quotes	The name of the shape for the database container.
Ssh Public Keys	string in quotes	The ssh public key(s) used to create the database.
Time Zone	string in quotes	The timezone the database is using
Version	string in quotes	The version of Oracle in use on the database.
DB Node	string	The name of the data base node.

## Program **Oci-GetDrgAttachment.py**

### Synopsis:

This utility lists all of the DRG attachments in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information or “list_all_child_compartments” to get a summarization list of all of the child compartments that are in the specified parent compartment.
Virtual Cloud Network	string	YES	The name of the virtual cloud network (VCN).
Dynamic Router Gateway	string	YES	The name of the dynamic router gateway (DRG).
DRG Attachment Name	string	YES	The name of the attachment to get details about or “list_all_drg_attachments” to get a summery list of all DRG attachments.
Region	string in quotes	YES	Then name of the region where the compartment resides.

### Example:

```
Oci-GetDrgAttachment.py admin_comp vpn_comp vpn0_vcn vpn0_drg vpn0_drg_attachment  
    'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
DRG Attachment	string	The description given to the compartment specified in parent compartment parameter.
Lifecycle State	string	The current state of the compartment.
Region	string	The name of the region where the DRG attachment is.

## Program **Oci-GetDynamicRouterGateway.py**

### Synopsis:

This utility lists all of the dynamic routing gateways in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified DRG in which to get the information.
Virtual Cloud Network	string	YES	The name of the virtual cloud network (VCN).
Dynamic Router Gateway	string	YES	The name of the dynamic router gateway (DRG) to get details about or "list_all_drgs" to get a summary list of all DRGs.
Region	string in quotes	YES	Then name of the region where the compartment resides.

### Example:

```
Oci-GetDynamicRouterGateway.py admin_comp dbs_comp dbs_vcn list_all_drgs 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
DRG	string	The name of the DRG in the specified compartment and VCN
Lifecycle State	string	The current state of the compartment.

## Program **Oci-GetExport.p**

### Synopsis:

This utility lists all NFS exports in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified NFS export in which to get the information
Mount Target	string	YES	The name of the mount target to get detail information on.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Prints the OCID of the export resource --lifecycle-state Prints the state of the export resource --path Prints the export's root path --export-options Prints the export's details --json Prints all resource data in JSON format and suppresses other output

### Example:

```
Oci-GetExport.py admin_comp dba_comp KENTFST01_MT 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
File System Name	string	The name of the NFS filesystem
Mount Target	string	The mount target name
Path	string	The path of the NFS filesystem
Lifecycle State	string	The current state of the compartment.
Region	string in quotes	The name of the region where the mount target is.

## Program **Oci-GetFileSystem.py**

### Synopsis:

This utility lists all file systems in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified NFS file system in which to get the information.
File System	string	YES	The name of the file system or "list_all_filesystems" to get a summarization list of all of the file systems that are in the specified parent compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Prints the OCID of the export resource --name Prints the name of the file system --availability-domain Prints the availability domain the file system was created in --lifecycle-state Prints the state of the export resource --json Prints all resource data in JSON format and suppresses other output

### Example:

```
oci-GetFileSystem.py admin_comp dbs_comp list_all_filesystems 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
File System	string	The name of the NFS filesystem
Lifecycle State	string	The current state of the compartment.
Region	string in quotes	The name of the region where the mount target is.



## Program **Oci-GetImage.py**

### Synopsis:

This utility lists all install images available in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Image Name	string	YES	The only option is using 'list_all_images' which list all available VM image.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --name Prints the name of the file system

### Example:

```
Oci-GetImage.py admin_comp bak_comp list_all_images 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Image Name	string	The name of the image
Image OCID	string	The OCID of the image

## Program **Oci-GetInternetGateway.py**

### Synopsis:

This utility lists all internet gateways in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified IGW in which to get the information.
Virtual Cloud Network	string	YES	The virtual cloud network where the IGW is located.
Internet Gateway	string	YES	The name of the internet gateway or "list_all_igws" to get a summarization list of all of the file systems that are in the specified parent compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Prints the OCID of the export resource --name Prints the name of the file system --lifecycle-state Prints the state of the export resource --json Prints all resource data in JSON format and suppresses other output

### Example:

```
Oci-GetInternetGateway.py admin_comp bas_comp bas_vcn list_all_igws 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
Internet Gateway Name	string	The name of the internet gateway
Lifecycle State	string	The current state of the compartment.
Region	string in quotes	The name of the region where the mount target is.

## Program **Oci-GetKbCluster.py**

### Synopsis:

This utility lists all Kubernetes clusters in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Cluster Name	string	YES	The name of the Kubernetes cluster or "list_all_clusters" to get a summarization list of all of the file systems that are in the specified parent compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Print the OCID of the cluster --name Print the name of the cluster --available-upgrades Prints any upgrades that may be available for the cluster --lifecycle-state Prints the cluster's lifecycle status --metadata Prints the cluster metadata information --network-config Prints the cluster's network configuration --json Prints all resource data in JSON format and suppresses other output

### Example:

```
Oci-GetKbCluster.py admin_comp dbs_comp list_all_clusters 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
Cluster	string	The name of the internet gateway.
Version	string	The version of the Kubernetes cluster.
Kubernetes Dashboard State	string	The current state of the Kubernetes dashboard.
Pods CIDR	integer	The CIDR of the pods in the cluster.
Services CIDR	integer	The services CIDR of the cluster.

Key	Returned	Description
Lifecycle State	string	The current state of the compartment.
Region	string in quotes	The name of the region where the mount target is.

## Program **Oci-GetLocalPeeringGateway.py**

### Synopsis:

This utility lists all Local Peering Gateways (LPG) in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified LPG in which to get the information
Virtual Cloud Network	string	YES	The virtual cloud network (VCN) where the local peering gateway is.
Local Peering Gateway	string	YES	The name of the local peering gateway or "list_all_lpgs" to get a summarization list of all of the local peering gateways that are in the specified parent compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Prints the OCID of the export resource --name Prints the name of the file system --lifecycle-state Prints the state of the export resource --json Prints all resource data in JSON format and suppresses other output

### Example:

```
Oci-GetLocalPeeringGateway.py admin_comp auto_comp auto_vcn list_all_lpgs 'us-ashburn-1'
```

**Return Values:**

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
LPG	string	The name of the local peering gateway.
Cross Tenancy Peering	boolean	If the local peering gateway uses cross tenancy peering.
Peering Status	string	The status of the local peering gateway.
Peer Advertised Route	Integer	The peer advertised route.
Lifecycle State	string	The current state of the local peering gateway in the compartment.
Region	string in quotes	The name of the region where the mount target is.

## Program **Oci-GetMountTarget.py**

### Synopsis:

This utility lists all NFS mount targets in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified mount target in which to get the information
Virtual Cloud Network	string	YES	The virtual cloud network (VCN) where the mount target is.
Subnet	string	YES	The name of the subnet the mount target is located in.
Mount Target	string	YES	The name of the mount target or "list_all_mount_targets" to get a summarization list of all of the file systems that are in the specified parent compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Prints the OCID of the export resource --name Prints the name of the file system --lifecycle-state Prints the state of the export resource --json Prints all resource data in JSON format and suppresses other output

### Example:

```
Oci-GetMountTarget.py admin_comp dbs_comp dbs_vcn dbs_sub list_all_mount_targets 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
Mount Target	string	The name of the mount target
Availability Domain	string	The name of the availability domain the mount target is in.
Service IP Address	Integer	The service IP address of the mount target
Lifecycle State	string	The current state of the mount target in the compartment.
Region	string in quotes	The name of the region where the mount target is.

## Program **Oci-GetNatGateway.py**

### Synopsis:

This utility lists all Name Address Translation gateways in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified gateway in which to get the information
Virtual Cloud Network	string	YES	The virtual cloud network (VCN) where the NAT gateway is.
NAT Gateway	string	YES	The name of the NAT gateway that is in the specified parent compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Prints the OCID of the export resource --name Prints the name of the file system --nat-ip Prints the NAT gateway's public IP address --lifecycle-state Prints the state of the export resource --json Prints all resource data in JSON for

### Example:

```
Oci-GetNatGateway.py admin_comp bas_comp bas_vcn list_all_nat_gateways 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
NAT Gateway	string	The name of the mount target.
Public IP Address	string	The public IP of the mount target is in.
Block Traffic	string	The service IP address of the mount target.
Lifecycle State	string	The current state of the compartment.
Region	string in quotes	The name of the region where the mount target is.



## Program `Oci-GetNetworkSecurityGroup.py`

### Synopsis:

This utility lists all Network Security Groups (NSG) in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified NSG in which to get the information
Virtual Cloud Network	string	YES	The virtual cloud network (VCN) where the NAT gateway is.
Network Security Group	string	YES	The name of the NSG or "list_all_security_groups_in_vcn" that lists all of the NSGs that is in the specified parent compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Prints the OCID of the export resource --name Prints the name of the file system --lifecycle-state Prints the state of the export resource --virtual-cloud-network Prints the OCID of the virtual cloud network associated with the network security group --json Prints all resource data in JSON for

### Example:

```
Oci-GetNetworkSecurityGroup.py admin_comp auto_comp auto_vcn list_all_security_groups 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
Security Group	string	The name of the NSG.
Lifecycle State	string	The current state of the compartment.
Region	string in quotes	The name of the region where the mount target is.

## Program **Oci-GetNodePool.py**

### Synopsis:

This utility lists the node pool attributes of the specified node pool.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment the specified node pool is in
Cluster Name	string	YES	The name of the cluster the node pool is located in
Node Pool Name	string	YES	The name of the node pool to get information about
Region	string in quotes	YES	Then name of the region where the DRG resides.
Optional Argument	string	NO	Valid options include: --ocid Print the OCID of the RPC resource --name Prints the name of the nodepool resource --version Prints the version of kubernetes --node-config Prints the node configuration details --shape Prints the shape deployed to the nodepool --json Print all resource data in JSON format and surpress other output

### Example:

```
Oci-GetNodePool.py admin_comp tst_comp list_all_node_pools 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The compartment where the node pool is located.
Cluster	string	The name of the cluster the node pool is in.
Node Pool	string	The name of the node pool
KB Version	string	The version of kubernetes
OS Version	string	The O/S version of the cluster
Nodes in Pool	numeric	The number of nodes in the pool
Shape	string	The shape of the Vm
Region	string	The region where the node pool is located.

## Program **Oci-GetParentCompartment.py**

### Synopsis:

This utility lists the parent compartment in the specified child compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of the parent compartment to get information on.
Optional Argument	string	NO	The optional arguments 'list_all_parent_compartments' lists a summary of all of the parent compartments in the root compartment

### Example:

```
Oci-GetParentCompartment.py admin_comp
```

### Return Values:

Key	Returned	Description
COMPARTMENT	string	The name of the compartment specified in the parent department parameter
DESCRIPTION	string	The description given to the compartment specified in parent compartment parameter
LIFECYCLE STATE	string	The current state of the compartment

## Program **Oci-GetRouteTable.py**

### Synopsis:

This utility lists all route tables in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Virtual Cloud Network	string	YES	The virtual cloud network (VCN) where the NAT gateway is.
Route Table Name	string	YES	The name of the route table or 'list_all_route_tables' that are in the specified parent compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Prints the OCID of the export resource --name Prints the name of the file system --route-rules Prints the defined route rules of the route table resource --lifecycle-state Prints the lifecycle state of the route table resource --json Prints all resource data in JSON for

### Example:

```
oci-GetRouteTable.py admin_comp web_comp web_vcn list_all_route_tables 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
Route Table	string	The name of the route table.
Lifecycle State	string	The current state of the compartment.
Region	string in quotes	The name of the region where the mount target is.

## Program Oci-GetRpc.py

### Synopsis:

This utility lists remote peering connections of a specified DRG.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified DRG in which to get the information
Virtual Cloud Network (VCN)	string	YES	The VCN the RPC is located in
Dynamic Router Gateway (DRG)	string	YES	The name of the DRG the remote peering connections will be added to.
RPC	string	YES	The name of the remote peering connection to be added to the DRG.
Region	string in quotes	YES	Then name of the region where the DRG resides.
Optional Argument	string	NO	Valid options include: --ocid Print the OCID of the RPC resource --peering-status Print the peering status of the RPC --lifecycle-state Print the lifecycle state of the RCP --json Print all resource data in JSON format and surpress other output

### Example:

```
Oci-GetRpc.py admin_comp dbs_comp dbs_vcn dbs_drg list_all_rpcs 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The compartment where the VM is located.
VCN	string	The name of the route table.
DRG	string	The information of the route destination.
RPC	numeric	The type of destination information.
Peering Status	string	The status of the rpc.
Lifecycle State	string	The current state of the compartment.
Region	string	The region where the route table is located.

## Program **Oci-GetSecurityList.py**

### Synopsis:

This utility lists all route tables in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified security list in which to get the information
Virtual Cloud Network	string	YES	The virtual cloud network (VCN) where the NAT gateway is.
Network Security List	string	YES	The name of the security list or 'list_all_security_lists' that are in the specified parent compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Prints the OCID of the export resource --name Prints the name of the file system --egress-security-rules Print the egress security rules within the security list --ingress-security-rules Print the ingress security rules within the security list --lifecycle-state Prints the lifecycle state of the route table resource --json Prints all resource data in JSON for

### Example:

```
oci-GetSecurityList.py admin_comp auto_comp auto_vcn list_all_security_lists 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
Security List	string	The name of the security list.
Lifecycle State	string	The current state of the compartment.
Region	string in quotes	The name of the region where the mount target is.

## Program **Oci-GetSecurityList.py**

### Synopsis:

This utility lists all route tables in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified security list in which to get the information
Virtual Cloud Network	string	YES	The virtual cloud network (VCN) where the NAT gateway is.
Network Security List	string	YES	The name of the security list or 'list_all_security_lists' that are in the specified parent compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Prints the OCID of the export resource --name Prints the name of the file system --egress-security-rules Print the egress security rules within the security list --ingress-security-rules Print the ingress security rules within the security list --lifecycle-state Prints the lifecycle state of the route table resource --json Prints all resource data in JSON for

### Example:

```
Oci-GetSecurityList.py admin_comp auto_comp auto_vcn list_all_security_lists 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
Security List	string	The name of the security list.
Lifecycle State	string	The current state of the compartment.
Region	string in quotes	The name of the region where the mount target is.

## Program **Oci-GetShape.py**

### Synopsis:

This utility gets the current shape attributes of the specified VM.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment the VM is in
Shape	string in quotes	YES	The name of the VM shape to get the information about or 'list_all_vm_shapes' to list all of the shapes available for the specified child compartment.
Region	string	YES	The region where the VM is located.

### Example:

```
Oci-GetShape.py admin_comp tst_comp list_all_vm_shapes 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The compartment where the node pool is located.
Shape	string	The name of shape
OCPUs	numeric	The number of VCPUs in the specified shape
Memory	numeric	The amount of memory in the specified shape
Bandwidth in Gbps	numeric	The maximum bandwidth of all of the VNICs
Max VNICs	numeric	The maximum number of VNICs supported by the specified shape.
CPU Description	string	The description of the VCPUs for the specified shape.
Region	string	The region where the node pool is located.



## Program **Oci-GetVirtualCloudNetwork.py**

### Synopsis:

This utility lists attributes of the specified Virtual Cloud Network (VCN).

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified VCN in which to get the information
VCN Name	string	YES	The name of the VCN to get the information about or 'list_all_vcns' to list all of the VCNs in the specified child compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid            Print the OCID of the VCN resource --name          Print the name of the VCN resource --cidr-block    Print the CIDR IP address range of the VCN --defaults      Print the default settings for DHCP, route table, and security list --lifecycle-state: Print the lifecycle state of the VCN resource --json          Prints all resource data in JSON format and suppresses other output

### Example:

```
oci-GetVirtualCloudNetwork.py admin_comp auto_comp auto_vcn 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The compartment where the VCN is located.
VNC	string	The name of the virtual cloud network (VCN)
CIDR	string	The CIDR block of the specified VCN
FQDN	string	The fully qualified domain name.
Route Table	string	The route table associated with the VCN
Security List	string	The security list associated with the VCN
DHCP Options	string	The option settings of the DHCP server associated with the VCN.
Region	string	The region where the VCN is located.

## Program **Oci-GetVirtualCloudSubNetwork.py**

### Synopsis:

This utility lists attributes of the specified Virtual Cloud Subnet Network.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
VCN Name	string	YES	The name of the VCN subnetwork to get the information about or 'list_all_subnetworks' to list all of the VCN subnetworks in the specified child compartment.
Subnet Name	string	YES	The name of the subnet to get information about.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid                      Print the OCID of the VCN resource --name                    Print the name of the VCN resource --prohibit_public_ip_addresses   Returns False if public IP addresses are allowed, otherwise it returns True. --lifecycle-state:        Print the lifecycle state of the subnet resource. --json                    Prints all resource data in JSON format and surpresses other output

### Example:

```
Oci-GetVirtualCloudSubnetwork.py admin_comp dr_comp dr_vcn list_all_subnetworks 'us-phoenix-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The compartment where the subnetwork is located.
VNC	string	The name of the virtual cloud network (VNC).
VCN CIDR	numeric	The CIDR block of the virtual cloud network (VNC).
Subnetwork	string	The subnetwork associated with the VNC.
CIDR	numeric	The CIDR block of the specified subnetwork.
Lifecycle State	string	The lifecycle state of the subnetwork.
Region	string	The region where the subnetwork is located.

## Program Oci-GetVM.py

### Synopsis:

This utility lists all virtual machines in the specified compartment.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified VM in which to get the information
VM			The name of the VM to get the information about or 'list_all_vms' to list all of the VMs in the specified child compartment.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --ocid Print the OCID of the VM resource --name Print the name of the VM resource --availability-domain Print the availability domain where the VM resource resides --lifecycle-state Print the lifecycle state of the VM resource --metadata Print the metadata of the VM resource --pub-ip Print all public IP addresses associated with the VM resource --priv-ip Print all private IP addresses associated with the VM resource --shape Print the shape details of the VM resource --source-details Print the source details from which this VM resource had been created from --json Print all resource data in JSON format and suppresses other output

### Example:

```
Oci-GetVm.py admin_comp web_comp DKCDCP01 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment the VM is in.
VM Name	string	The name of the VM
Availability Domain	string	The Availability Domain the VM is located in
VCN	string	The VCN name the VM is associated with.
Subnet	string	The subnet the VM is connected to.
Primary IP Address	numeric	The private IP assigned to the VM

Key	Returned	Description
Public IP address	numeric	The public IP assigned to the VM
Shape	string	The name of the shape the VM is using
Lifecycle State	string	The current state of the VM
Region	string	The name of the region where the mount target is.

## Program **Oci-GetVmVolume.py**

### Synopsis:

This utility lists attributes of the specified VM.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified VM volume in which to get the information
VM	string	YES	The name of the VM to get the information about.
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --json                      Prints all resource data in JSON format and surpresses other output

### Example:

```
Oci-GetVolume.py admin_comp dbs_comp 'kentrmanp01 (Boot Volume)' 'us-ashburn-1' --boot-volume
```

### Return Values:

Key	Returned	Description
VM Name	string	Name of the VM.
Volume Type	string	Type of volume.
Volume Name	string	The name of the volume.
Size in GBytes	integer	Size of the volume in Gigabytes.
Performance Setting	string	The performance setting of the volume.
Lifecycle State	string	The current state of the compartment.

## Program **Oci-ImportNetworkSecurityGroupRules.py**

### Synopsis:

This utility imports security group rules from a .csv file.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Virtual Network	string	YES	The name of the VCN to get the information about or 'list_all_vcns' to list all of the VCNs in the specified child compartment.
Network Security Group	string	YES	The name of the NSG to create/add the security rules to.
Region	string in quotes	YES	Then name of the region where the compartment resides.
CSV File	string	YES	The name of the .csv file that contains the security rules to add.

### Example:

```
Oci-ImportNetworkSecurityGroupRules.py admin_comp auto_comp auto_vcn dmzt01_grp 'us-ashburn-1'
dmzt01_grp.csv
```

### Return Values for each rule in the security list:

Key	Returned	Description
Description	string	Description of the security rule purpose.
Destination	string	On EGRESS rules, shows the destination CIDR, on INGRESS shows null
Destination Type	numeric	On EGRESS rules, shows the destination type, on INGRESS shows null
Direction	string	Denotes INGRESS or EGRESS
ICMP Options	numeric	The ICMP options when the destination_type is ICMP
Id	string	The Id number of the security rule
Is Stateless	boolean	Stateless = true, stateful = false
Is Valid	boolean	Should always be true
Protocol	string in quotes	The numeric respresentation of the protocol

Key	Returned	Description
Source	string in quotes	On INRESS rules, shows the destination CIDR, on EGRESS shows null
Source Type	string in quotes	On INRESS rules, shows the destination type, on EGRESS shows null
TCP Options	string in quotes	When TCP ports are specified, destination_port_range minimum and maximum
Time Created	string	Time and date the rule was created.
UDP Options	string in quotes	When UDP ports are specified, destination_port_range minimum and maximum

## Program **Oci-ImportSecurityList.py**

### Synopsis:

This utility imports the security list rules of the specified network security list.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified network security list in which to get the information
Virtual Network	string	YES	The name of the VCN to get the information about
Network Security List	string	YES	The name of the network security list to export
Region	string in quotes	YES	Then name of the region where the compartment resides.
CSV File	string	YES	The name of the .csv file that contains the security rules to add.

### Example:

```
Oci-ImportSecurityList.py admin_comp auto_comp auto_vcn auto_sec 'us-ashburn-1' auto_sec_rules.csv
```

### Return Values for each rule in the security list:

Key	Returned	Description
Description	string	Description of the security rule purpose.
Destination	string	On EGRESS rules, shows the destination CIDR, on INGRESS shows null
Destination Type	numeric	On EGRESS rules, shows the destination type, on INGRESS shows null
Direction	string	Denotes INGRESS or EGRESS
ICMP Options	numeric	The ICMP options when the destination_type is ICMP
Is Stateless	boolean	Stateless = true, stateful = false
Protocol	string in quotes	The numeric representation of the protocol
TCP Options	numeric	When TCP ports are specified, destination_port_range minimum, maximum, and source_port_range
UDP Options	numeric	When UDP ports are specified, destination_port_range minimum, maximum, and source_port_range



## Program **Oci-ReplicateBootVolumeToRegion.py**

### Synopsis:

This utility reports the status of all VM instance backups in the specified compartment or the status of backups for the specified VM instance.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Backup Item ID	string in quotes	YES	Then OCID of the backup job
Source Region	string in quotes	YES	Then name of the region where the backup image resides.
Destination Region	string in quotes	YES	Then name of the region secondary where the backup replication resides.

### Example:

```
Oci-ReplicateBootVolumeToRegion.py admin_comp dbs_comp
'ocidl.bootvolumebackup.oc1.iad.abuwcljtslmyxmeakhrxbwwolo7b5vdi4e4jn5qwasti6atfhrzug4f157wg'
'us-ashburn-1' 'us-phoenix-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
VM	string	The name of the VM the backup volume is attached to.
Backup Name	string	The name of the backup of the volume.
Synchronization State	string	The state of the copy from the primary to secondary region.
Protected Volume	string	The name of the volume being backed up
Date	string	The date and time of the backup of the volume
Lifecycle State	string	The current state of the volume.
Primary Region	string	The name of the region where the volume resides.
Secondary Region	string	The name of the secondary region where the volume is being replicated to.

## Program **Oci-ReplicateVolumeToRegion.py**

### Synopsis:

This utility replicates the specified boot volume item to the specified destination region.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Backup Item ID	string in quotes	YES	Then OCID of the backup job
Source Region	string in quotes	YES	Then name of the region where the backup image resides.
Destination Region	string in quotes	YES	Then name of the region secondary where the backup replication resides.

### Example:

```
Oci-ReplicateVolumeToRegion.py admin_comp dbs_comp
'ocidl.volumebackup.oc1.iad.abuwcljtslmyxmeakhrxbwolo7b5vdi4e4jn5qwasti6atfhrzug4f157wq'
'us-ashburn-1' 'us-phoenix-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
VM	string	The name of the VM the backup volume is attached to.
Backup Name	string	The name of the backup of the volume.
Synchronization State	string	The state of the copy from the primary to secondary region.
Protected Volume	string	The name of the volume being backed up
Date	string	The date and time of the backup of the volume
Lifecycle State	string	The current state of the volume.
Primary Region	string	The name of the region where the volume resides.
Secondary Region	string	The name of the secondary region where the volume is being replicated to.

## Program **Oci-RestoreVM.py**

### Synopsis:

This utility restores a VM backup to a specified location.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified parent compartment in which to get the information
Virtual Cloud Network (VCN)	string	YES	The name of the VCN the route table resides in.
Source VM	string	YES	The name of the VM backup to use
Region	string in quotes	YES	Then name of the region where the VM resides.
New VM Name	string	YES	The name of the VM that is being created.
Target Parent Compartment	string	YES	The name of the parent compartment the new VM is being created in.
Target Child Compartment	string	YES	The name of the child compartment the new VM is being created in.
Target Virtual Cloud Network	string	YES	The name of the VCN the new VM is being created in.
Target Subnet	string	YES	The name of the subnet the new VM is being created in.
Target Region	string in quotes	YES	The name of the region the new VM is being created in.
Target AD Number	numeric	YES	The name of the AD the new VM is being created in.
IP address	string in quotes	YES	The IP address of the new VM is being given.

### Example:

```
Oci-RestoreVm.py acad_comp edu_comp edursrchp01 'us-ashburn-1' tstrestoret01 acad_comp
edu_comp edudr_vcn edudr_sub01 'us-phoenix-1' 2 '10.1.0.100'
```

**Return Values:**

Key	Returned	Description
Compartment	string	The compartment where the VM is located.
VM	string	The name of the new VM
Recovery Action	string	The type of action used for recovery
Lifecycle State	string	“Available”, “Running”, or “Exception”
Availability Domain	string	The availability domain of the restored VM
Fault Domain	string	The name of the fault domain of the restored VM
Shape	string	The shape of the restored VM
OCPUs	numeric	The number of OCPUs in the shape
Memory	numeric	The amount of memory assigned to the shape
Region	string	The region where the route table is located.

## Program **Oci-StartDbSystem.py**

### Synopsis:

This utility starts a database instance in the specified DBaaS.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
DB System Name	string	YES	The name of the database to start.
Region	string in quotes	YES	Then name of the region where the compartment resides.

### Example:

```
Oci-StartDbSystem.py admin_comp dbs_comp KENTBNRCDB 'us-ashburn-1'
```

### Return Message:

Shutdown of DB system PRODCDB within compartment edu\_comp in region us-ashburn-1 has been submitted.

It will take up to 20 minutes for the shutdown to complete.

## Program **Oci-StartVM.py**

### Synopsis:

This utility starts the specified VM.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified VM in which to get the information
VM Name	string	YES	The name of the VM to start.
Region	string in quotes	YES	Then name of the region where the compartment resides.

### Example:

```
Oci-StartVM.py admin_comp tst_comp DKCESMT01 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The compartment where the VM is located.
VM Instance	string	The name of the VM starting.
Lifecycle State	string	The lifecycle state of the VM.
Region	string	The region where the VM is located.

## Program **Oci-StopVM.py**

### Synopsis:

This utility stops the specified VM.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified VM in which to get the information
VM Name	string	YES	The name of the VM to stop.
Region	string in quotes	YES	Then name of the region where the compartment resides.

### Example:

```
Oci-StopVM.py admin_comp tst_comp DKCESMT01 'us-ashburn-1'
```

### Return Message:

Initiating a graceful shutdown of VM instance kentdmzt02 in compartment bas\_comp within region us-ashburn-1

This will take a few minutes to complete, please wait.....

Graceful shutdown of VM instance kentdmzt02 within compartment bas\_comp in region us-ashburn-1 completed.

## Program **Oci-UpdateDbSystemLicenseModel.py**

### Synopsis:

This utility updates the license model of the database system of the specified DBaaS.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment the specified node pool is in
DB System Name	string	YES	The name of the cluster the node pool is located in
License Model	string	YES	The two options are BRING_YOUR_OWN_LICENSE and LICENSE_INCLUDED
Region	string in quotes	YES	Then name of the region where the DRG resides.

### Example:

```
Oci-UpdateDbSystemLicenseModel.py admin_comp dbs_comp KENTBNRCDB 'LICENSE_INCLUDED' 'us-ashburn-1'
```

### Messages:

Fetching and verifying tenant resource data. Please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Have you made sure that the database for this DB System is in an OPEN state?  
Do not apply the license model change unless the database is in an OPEN state. Corruption to the SP files could happen if this change is applied with the database in any state other than an OPEN state.

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Press any key to continue to the next prompt.

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

License model change request for DB System EDUTSTCDB in compartment edu\_comp in region us-ashburn-1

You are about to change the DB System's license model. Make sure no other changes are being applied to the database system during this time. The license model change may take up to 20 minutes to completed.

Enter PROCEED\_TO\_CHANGE\_LICENSE\_MODEL and press enter to confirm, or just press the enter key to abort.



## Program **Oci-UpdateDbSystemShape.py**

### Synopsis:

This utility updates the shape of the database system VM of the specified DBaaS.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment the specified node pool is in
DB System Name	string	YES	The name of the cluster the node pool is located in
License Model	string	YES	The two options are BRING_YOUR_OWN_LICENSE and LICENSE_INCLUDED
Region	string in quotes	YES	Then name of the region where the DRG resides.

### Example:

```
Oci-UpdateDbSystemShape.py admin_comp dbs_comp KENTBNRCDB 'VM.Standard2.2' 'us-ashburn-1'
```

### Messages:

Fetching and verifying tenant resource data. Please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Have you made sure that the database for this DB System is in an OPEN state?  
Do not apply the license model change unless the database is in an OPEN state. Corruption to the SP files could happen if this change is applied with the database in any state other than an OPEN state.

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!  
Press any key to continue to the next prompt.  
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Shape change request for DB System EDUTSTCDB in compartment edu\_comp in region us-ashburn-1

You are about to change the DB System's shape. Make sure no other changes are being applied to the database system during this time. The shape change may take up to 20 minutes to completed.

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!  
THIS IS A DISRUPTIVE OPERATION. THE DATABASE WILL BE RESTARTED  
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter PROCEED\_TO\_CHANGE\_SHAPE and press enter to confirm, or just press the enter key to abort.  
PROCEED\_TO\_CHANGE\_SHAPE

Updating DB system EDUTSTCDB with a compute shape change to VM.Standard2.2 , this will take up to 20 minutes to complete.....

DB System shape change is completed. Please inspect the results below and check your databases.

## Program **Oci-UpdateDbSystemSshKeys.py**

### Synopsis:

This utility updates the ssh keys associated with the database system of the specified DBaaS.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment the specified node pool is in
DB System Name	string	YES	The name of the cluster the node pool is located in
Key Directory	string	YES	The directory where the ssh keys to be added reside
Region	string in quotes	YES	Then name of the region where the DRG resides.

### Example:

```
Oci-UpdateDbSystemSshKeys.py admin_comp dbs_comp KENTBNRCDB /home/ansible/ssh_keys 'us-ashburn-1'
```

### Messages:

Fetching and verifying tenant resource data. Please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Have you made sure that the database for this DB System is in an OPEN state?  
Do not apply the license model change unless the database is in an OPEN state. Corruption to the SP files could happen if this change is applied with the database in any state other than an OPEN state.

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!  
Press any key to continue to the next prompt.  
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Shape change request for DB System EDUTSTCDB in compartment edu\_comp in region us-ashburn-1

You are about to change the DB System's SSH keys. Make sure no other changes are being applied to the database system during this time. The SSH key change may take up to 20 minutes to completed.

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!  
THIS IS A DISRUPTIVE OPERATION. THE DATABASE WILL BE RESTARTED  
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

You are about to change the DB System's SSH keys. Make sure no other changes are being applied to the database system during this time. The SSH key change may take up to 20 minutes to completed.

DB System ssh key change is completed. Please inspect the results below and check your databases.

## Program **Oci-UpdateDbSystemStorageSize.py**

### Synopsis:

This utility updates the database system storage size of the specified DBaaS.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment the specified node pool is in
DB System Name	string	YES	The name of the cluster the node pool is located in
New Storage Amount	string	YES	The size in GB to resize the storage to.
Region	string in quotes	YES	Then name of the region where the DRG resides.

### Example

```
Oci-UpdateDbSystemIncreaseStorage.py admin_comp dbs_comp KENTBNRCDB 512 'us-ashburn-1'
```

### Messages:

Fetching and verifying tenant resource data. Please wait.....

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Have you made sure that the database for this DB System is in an OPEN state?  
Do not apply the license model change unless the database is in an OPEN state. Corruption to the SP files could happen if this change is applied with the database in any state other than an OPEN state.

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!  
Press any key to continue to the next prompt.  
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Storage size change request for DB System EDUTSTCDB in compartment edu\_comp in region us-ashburn-1

You are about to increase the DB System's storage. Make sure no other changes are being applied to the database system during this time. The storage increase may take up to 20 minutes to completed.

WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!  
THIS IS A DISRUPTIVE OPERATION. THE DATABASE WILL BE RESTARTED  
WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING! WARNING!

Enter PROCEED\_TO\_INCREASE\_STORAGE and press enter to confirm, or just press the enter key to abort.  
PROCEED\_TO\_INCREASE\_STORAGE

The storage increase to DB System EDUTSTCDB has started  
to 512 , please wait.....

The storage increase to the DB System is complete. Please inspect the results below and check your databases.

## Program **Oci-UpdateLocalPeeringGateway.py**

### Synopsis:

This utility updates the routes in the local peering gateway (LPG).

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Virtual Cloud Network	string	YES	The virtual cloud network (VCN) where the local peering gateway is.
Local Peering Gateway	string	YES	The name of the local peering gateway
Route Table	string	YES	The name of the route table to add to the LPG
Region	string in quotes	YES	Then name of the region where the compartment resides.

### Example:

```
Oci-UpdateLocalPeeringGateway.py admin_comp auto_comp auto_vcn auto_to_dbs_lpg DmztoIntranetLpg  
'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
LPG	string	The name of the local peering gateway.
Peer Advertised Route	string	The peer advertised route.
Route Table	string	The route table to be replaced in the LPG
Region	string	The name of the region where the LPG resides.

## Program **Oci-UpdateRouteRule.py**

### Synopsis:

This utility updates the rules in the specified router table.

### Parameters:

Parameter	Value	Required?	Comments
Router Type	string	YES	Must be --lpg-type for local peering gateway, --ngw-type for nat gateway, --igw-type for internet gateway, --drg-type for dynamic router gateway
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Virtual Cloud Network	string	YES	The virtual cloud network (VCN) where the local peering gateway is.
Route Table	string	YES	The name of the route table
Gateway Name	string	YES	The name of the gateway
Destination Type	string	YES	The type of destination, always use CIDR_BLOCK
Destination Address	String in quotes	YES	The CIDR of the route, such as "172.16.0.0/16"
Region	String in quotes	YES	The region where the route table is located in
New Destination Type	string	YES	The new destination router type
New Destination Type	string	YES	Must be CIDR_BLOCK
New Destination Address	String in quotes	YES	The CIDR of the route, such as "172.16.0.0/16"
New Description	String in quotes	YES	The new description name for the route rule

### Example:

```
OciUpdateRouteTable.py --lpg-type admin_comp auto_comp auto_vcn auto_rtb auto_to_web_lpg
CIDR_BLOCK '10.1.6.0/23' 'us-ashburn-1' CIDR_BLOCK '10.1.6.0/24' \
'This is the updated production route table for web app tier traffic'
```

**Return Values:**

Key	Returned	Description
Compartment	string	The compartment where the VM is located.
Route Table	string	The name of the route table.
Destination	string	The information of the route destination.
Destination Type	numeric	The type of destination information.
Region	string	The region where the route table is located.
Router Name	string	The name of the router
Router Type	string	The type of router

## Program **Oci-UpdateVmName.py**

### Synopsis:

This utility updates the name of the specified VM.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
VM Name	string	YES	The virtual cloud network (VCN) where the local peering gateway is.
New VM Name	string	YES	The name of the local peering gateway
Region	string in quotes	YES	Then name of the region where the compartment resides.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-UpdateVmName.py admin_comp tst_comp KENTBAST01 KENTBASP01
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
Old VM name	string	The original name of the VM.
New VM Name	string	The name the VM is being changed to.
Lifecycle State	string	The current state of the VM
Region	string	The name of the region where the LPG resides.

## Program **Oci-UpdateVmPubIp.py**

### Synopsis:

This utility enables and disables the public IP address of the specified VM.

### Parameters:

Parameter	Value	Required?	Comments
Child Compartment	string	YES	The child compartment of the specified in which to get the information
VM Name	string	YES	The virtual cloud network (VCN) where the local peering gateway is.
Region	string in quotes	YES	Then name of the region where the VM resides.
Action Argument	string	YES	Valid options include: --enable            Enable the public IP for the VM --disable          Disable the public IP for the VM
Optional Argument	string	NO	Valid options include: --force            Bypasses the confirmation prompt.

### Example:

```
oci-UpdateVmPubIp.py admin_comp tst_comp KENTBAST01 'us-ashburn-1' --enable
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
VM name	string	The original name of the VM.
Public IP address	string	The IP address assigned to the VM.
Region	string	The name of the region where the LPG resides.



## Program **Oci-UpdateVmShape.py**

### Synopsis:

This utility updates the shape of the specified VM.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified VM in which to get the information
VM Name	string	YES	The name of the VM to be updated.
Shape	string in quotes	YES	The shape to set the VM to.
Region	string in quotes	YES	Then name of the region where the VM resides.
Action Argument	string	YES	Valid options include: --force Bypasses the confirmation prompt. --prompt Enable the confirmation prompt.
Optional Argument	string	NO	Valid options include: --ocpus Bypasses the confirmation prompt. --memory Enable the confirmation prompt.

### Example:

```
Oci-UpdateVmShape.py admin_comp tst_comp DKCJUBSUBT01 'VM.Standard2.2' 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
VM name	string	The original name of the VM.
New Shape	string	The name of the new shape of the VM.
OCPUs	integer	The number of OCPUs in the VM.
Memory	integer	The amount of memory in GB in the VM
Lifecycle State	string	The current state of the VM.
Region	string	The name of the region where the LPG resides.

## Program **Oci-UpdateVolumeName.py**

### Synopsis:

This utility updates the name of the specified volume.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified volume in which to get the information
Volume Name	string	YES	The name of the volume to be updated
New Volume Name	string in quotes	YES	The new name of the volume that was updated
Region	string in quotes	YES	Then name of the region where the VM resides.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-UpdateVolumeName.py admin_comp dbs_comp kentrmanp01_datavol_0 kentrmanp01_datavol_1 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
Availability Domain	string	The availability domain of the VM.
Old Volume Name	string	The previous name of the VM.
New Volume Name	integer	The new name of the VM.
Lifecycle State	string	The current state of the VM.
Region	string	The name of the region where the LPG resides.

## Program **Oci-UpdateVolumeSize.py**

### Synopsis:

This utility updates the size of the specified volume.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Volume Name	string	YES	The virtual cloud network (VCN) where the local peering gateway is.
Volume Size in Gbytes	string in quotes	YES	The size to increase the volume to, in GB
Region	string in quotes	YES	Then name of the region where the VM resides.

### Example:

```
Oci-UpdateVolumeSize.py admin_comp dbs_comp kentrmanp01_datavol_0 2048 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
Availability Domain	string	The availability domain of the VM.
Volume Name	string	The name of the VM.
Old Size	integer	The previous size of the volume
New Size	integer	The new size of the volume
Lifecycle State	string	The current state of the volume.
Region	string	The name of the region where the volume resides.

## Program **Oci-UpdateVolumeSpeed.py**

### Synopsis:

This utility updated the performance setting of the specified volume.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
Instance	string	YES	The VM name that is associated with the volume.
Volume Name	string	YES	The virtual cloud network (VCN) where the local peering gateway is.
Speed Rating	string in quotes	YES	The speed rating of the volume (LOW/BALANCED/HIGH)
Region	string in quotes	YES	Then name of the region where the VM resides.
Optional Argument	string	NO	Valid options include: --force Bypasses the confirmation prompt.

### Example:

```
Oci-UpdateVolumeSpeed.py admin_comp dba_comp kentrmanp01 kentrmanp01_datavol_0 HIGH 'us-ashburn-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
VM	string	The name of the VM the volume is attached to.
Availability Domain	string	The availability domain of the VM.
Volume	string	The name of the volume.
Previous Performance Setting	string	The previous performance setting of the volume
Updated Performance Setting	string	The new performance setting of the volume
Lifecycle State	string	The current state of the volume.
Region	string	The name of the region where the volume resides.

## Program **Oci-VmBackupReport.py**

### Synopsis:

This utility displays all of the VMs backups and their synchronization status or shows the synchronization status all of the backup jobs for the specified VM.

### Parameters:

Parameter	Value	Required?	Comments
Parent Compartment	string	YES	The name of this parent compartment that the child compartment will be subordinate to.
Child Compartment	string	YES	The child compartment of the specified in which to get the information
VM Instance	string	YES	The name of the VM in the backup policy
Primary Region	string in quotes	YES	Then name of the region where the VM resides.
Secondary Region	string in quotes	YES	The name of the region where the backup is being replicated to.
Optional Argument	string	NO	Valid options include: --json provides the output in json format

### Example:

```
Oci-VmBackupReport.py acad_comp math_comp list_all_backups 'us-ashburn-1' 'us-phoenix-1'
Oci-VmBackupReport.py acad_comp math_comp algebrap01 'us-ashburn-1' 'us-phoenix-1'
```

### Return Values:

Key	Returned	Description
Compartment	string	The name of the compartment specified in the parent department parameter.
VM	string	The name of the VM the backup volume is attached to.
Backup ID	string	The OCID of the backup of the volume.
Synchronization State	string	The state of the copy from the primary to secondary region.
Protected Volume	string	The name of the volume being backed up
Date	string	The date and time of the backup of the volume
Lifecycle State	string	The current state of the volume.
Primary Region	string	The name of the region where the volume resides.
Secondary Region	string	The name of the secondary region where the volume is being replicated to.