|  |  |
| --- | --- |
| **Function** | **APIs** |
| Create Capacity Reservation Group | PUT  [https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/CapacityReservationGroup/{CapacityReservationGroupName}&api-version=2020-06-01](https://management.azure.com/subscriptions/%7bsubscriptionId%7d/resourceGroups/%7bresourceGroupName%7d/providers/Microsoft.Compute/CapacityReservationGroup/%7bCapacityReservationGroupName%7d&api-version=2020-06-01)  **URI Parameters**   |  |  |  | | --- | --- | --- | | **Name** | **Required** | **Type** | | **subscriptionId** | True | String | | **resourceGroupName** | True | String | | **capacityReservationGroupName** | True | String | | **api-version** | True | String |   **Request Body**   |  |  |  |  | | --- | --- | --- | --- | | **Name** | **Required** | **Type** | **Description** | | **location** | True | String | Azure region | | **tags** | False | Map <String, String> |  | | **zones** | False | String[] | Availability Zones(s) |   For regional reservation group, only pass the Azure region and for zonal reservation group, pass the region along with zone(s).  Regional  {  "location":"eastus",  }  Zonal  {  "location":"eastus",  “zones”: [“1”, “2”, “3”]  } |
| Create Capacity Reservation | PUT  [https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/CapacityReservationGroup/{CapacityReservationGroupName}/CapacityReservation/{CapacityReservationName}?api-version=2020-06-01](https://management.azure.com/subscriptions/%7bsubscriptionId%7d/resourceGroups/%7bresourceGroupName%7d/providers/Microsoft.Compute/CapacityReservationGroup/%7bCapacityReservationGroupName%7d/CapacityReservation/%7bCapacityReservationName%7d?api-version=2020-06-01)  **URI Parameters**   |  |  |  | | --- | --- | --- | | **Name** | **Required** | **Type** | | **subscriptionId** | True | String | | **resourceGroupName** | True | String | | **capacityReservationGroupName** | True | String | | **capacityReservationName** | True | String | | **api-version** | True | String |     **Request Body**   |  |  |  |  | | --- | --- | --- | --- | | **Name** | **Required** | **Type** | **Description** | | **sku** | True | sku | VM size | | **location** | True | String | Azure Region | | **tags** | False | Map<String, string> |  | | **zones** | False | String[] | Availability Zone. Only one AZ per capacity reservation is allowed |   **sku**   |  |  |  |  | | --- | --- | --- | --- | | **Name** | **Required** | **Type** | **Description** | | **name** | True | String | VM size | | **capacity** | True | int | Quantity to reserve |   {  "location": "eastus",  “zones”: [“1”],  "tags": {          "environment": "testing"      },  "sku": {  "name": "Standard\_D2s\_v3”  "capacity": 5,  }  } |
| Get Capacity Reservation Group | **URI Parameters**   |  |  |  | | --- | --- | --- | | **Name** | **Required** | **Type** | | **subscriptionId** | True | String | | **resourceGroupName** | True | String | | **capacityReservationGroupName** | True | String | | **api-version** | True | String |   GET  https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/CapacityReservationGroups/{CapacityReservationGroupName}?api-version=2020-06-01  **Response**  {      "name": "myCapacityReservationGroup",      "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/capacityReservationGroups/myCapacityReservationGroup",      "type": "Microsoft.Compute/capacityReservationGroups",      "location": "southcentralus",      "zones": [          "1"      ],      "properties": {          "capacityReservations": [              {                  "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/capacityReservationGroups/MYCAPACITYRESERVATIONGROUP/capacityReservations/MYCAPACITYRESERVATION"              }          ]      }  }  **Instance view**  GET InstanceView  https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/CapacityReservationGroup/{CapacityReservationGroupName}/InstanceView?api-version=2020-06-01  **Response**  {      "name": "myRegionalCapacityReservationGroup",      "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/capacityReservationGroups/myRegionalCapacityReservationGroup",      "type": "Microsoft.Compute/capacityReservationGroups",      "location": "eastus2euap",      "properties": {          "capacityReservations": [              {                  "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/capacityReservationGroups/MYREGIONALCAPACITYRESERVATIONGROUP/capacityReservations/MYCAPACITYRESERVATION"              }          ],          "virtualMachinesAssociated": [              {                  "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/virtualMachines/MYD2V3VM"              }          ],          "instanceView": {              "capacityReservations": [                  {                      "name": "myCapacityReservation",                      "utilizationInfo": {                          "virtualMachinesAllocated": [                              {                                  "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/virtualMachines/myD2v3VM"                              }                          ]                      },                      "statuses": [                          {                              "code": "ProvisioningState/succeeded",                              "level": "Info",                              "displayStatus": "Provisioning succeeded",                              "time": "2021-03-08T19:20:22.2692084+00:00"                          }                      ]                  }              ]          }      }  } |
| Get Capacity Reservation | **URI Parameters**   |  |  |  | | --- | --- | --- | | **Name** | **Required** | **Type** | | **subscriptionId** | True | String | | **resourceGroupName** | True | String | | **CapacityReservationGroupName** | True | String | | **CapacityReservationName** | True | String | | **api-version** | True | String |   GET  [https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/CapacityReservationGroup/{CapacityReservationGroupName}/capacityReservation/{capacityReservationName}?api-version=2020-06-01](https://management.azure.com/subscriptions/%7bsubscriptionId%7d/resourceGroups/%7bresourceGroupName%7d/providers/Microsoft.Compute/CapacityReservationGroup/%7bCapacityReservationGroupName%7d/capacityReservation/%7bcapacityReservationName%7d?api-version=2020-06-01)  **Response**  {      "name": "myCapacityReservation",      "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/capacityReservationGroups/myCapacityReservationGroup/capacityReservations/myCapacityReservation",      "type": "Microsoft.Compute/capacityReservationGroups/capacityReservations",      "location": "southcentralus ",      "sku": {          "name": "Standard\_D2\_v3",          "capacity": 3      },      "zones": [          "1"      ],      "properties": {          "reservationId": "<reservationId>",          "provisioningTime": "2021-03-03T00:01:34.5064139+00:00",          "provisioningState": "Succeeded"      }  }  **Instance View**  GET instance view  [https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/CapacityReservationGroup/{CapacityReservationGroupoName}/CapacityReservation/{CapacityReservationName}/instanceview?api-version=2020-06-01](https://management.azure.com/subscriptions/%7bsubscriptionId%7d/resourceGroups/%7bresourceGroupName%7d/providers/Microsoft.Compute/CapacityReservationGroup/%7bCapacityReservationGroupoName%7d/CapacityReservation/%7bCapacityReservationName%7d/instanceview?api-version=2020-06-01%20)    **Response**  {      "name": "myCapacityReservation",      "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/capacityReservationGroups/myRegionalCapacityReservationGroup/capacityReservations/myCapacityReservation",      "type": "Microsoft.Compute/capacityReservationGroups/capacityReservations",      "location": "eastus2euap",      "sku": {          "name": "Standard\_D2\_v3",          "capacity": 3      },      "properties": {          "virtualMachinesAssociated": [              {                  "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/virtualMachines/MYD2V3VM"              }          ],          "reservationId": "<reservationId>",          "provisioningTime": "2021-03-08T19:20:22.2692084+00:00",          "provisioningState": "Succeeded",          "instanceView": {              "utilizationInfo": {                  "virtualMachinesAllocated": [                      {                          "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/virtualMachines/myD2v3VM"                      }                  ]              },              "statuses": [                  {                      "code": "ProvisioningState/succeeded",                      "level": "Info",                      "displayStatus": "Provisioning succeeded",                      "time": "2021-03-08T19:20:22.2692084+00:00"                  }              ]          }      }  } |
| Update the quantity of a Capacity Reservation | PATCH  [https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/CapacityReservationGroup/{CapacityReservationGroupName}/CapacityReservation/{CapacityReservationName}?api-version=2020-06-01](https://management.azure.com/subscriptions/%7bsubscriptionId%7d/resourceGroups/%7bresourceGroupName%7d/providers/Microsoft.Compute/CapacityReservationGroup/%7bCapacityReservationGroupName%7d/CapacityReservation/%7bCapacityReservationName%7d?api-version=2020-06-01)  {  "location": "eastus",  "sku": {  "name": "Standard\_D2s\_v3”  "capacity": 10,  }  }  Update “capacity” to the new desired quantity (10) to be reserved. |
| Delete Capacity Reservation | DELETE  [https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/CapacityReservationGroup/{CapacityReservationGroupName}/CapacityReservation/{CapacityReservationName}?api-version=2020-06-01](https://management.azure.com/subscriptions/%7bsubscriptionId%7d/resourceGroups/%7bresourceGroupName%7d/providers/Microsoft.Compute/CapacityReservationGroup/%7bCapacityReservationGroupName%7d/CapacityReservation/%7bCapacityReservationName%7d?api-version=2020-06-01)  **Note**  Capacity Reservation can only be deleted if there are no virtual machines associated with it. In order to delete reservation, first dissociate all the VMs in the “*virutalMachinesAssociated”* property and then proceed with the deletion. |
| Delete Capacity Reservation Group | DELETE  [https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/CapacityReservationGroup/{CapacityReservationGroupName}?api-version=2020-06-01](https://management.azure.com/subscriptions/%7bsubscriptionId%7d/resourceGroups/%7bresourceGroupName%7d/providers/Microsoft.Compute/CapacityReservationGroup/%7bCapacityReservationGroupName%7d?api-version=2020-06-01)  **Note**  Capacity Reservation Groups can only be deleted if there are no underlying capacity reservations. Hence, first delete the underlying capacity reservations and then proceed with deleting the capacity reservation group. |
| Associate VM to a Capacity Reservation Group | PUT  [https://management.azure.com/subscriptions/{subscription-id}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/virtualMachines/{VirtualMachineName}?api-version=2020-12-01](https://management.azure.com/subscriptions/%7bsubscription-id%7d/resourceGroups/%7bresourceGroupName%7d/providers/Microsoft.Compute/virtualMachines/%7bVirtualMachineName%7d?api-version=2020-12-01)  {  "location": "eastus",  "properties": {  "hardwareProfile": {  "vmSize": "Standard\_D2s\_v3"  },  …  “CapacityReservation”:{  “capacityReservationGroup”:{  “id”:”subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/CapacityReservationGroup/{CapacityReservationGroupName}”  }  "storageProfile": {  …  },  "osProfile": {  …  },  "networkProfile": {  …  }  }  }  Get VM  GET  [https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}//providers/Microsoft.Compute/virtualMachines/{VirtualMachineName}?api-version=2020-12-01](https://management.azure.com/subscriptions/%7bsubscriptionId%7d/resourceGroups/%7bresourceGroupName%7d//providers/Microsoft.Compute/virtualMachines/%7bVirtualMachineName%7d?api-version=2020-12-01)  {      "name": "myD2v3VM",      "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName} /providers/Microsoft.Compute/virtualMachines/myD2v3VM",      "type": "Microsoft.Compute/virtualMachines",      "location": "westcentralus",      "properties": {          "vmId": "<VMId>",          "hardwareProfile": {              "vmSize": "Standard\_D2\_v3"          },          "capacityReservation": {              "capacityReservationGroup": {                  "id": "/subscriptions/{subscriptionId}//resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/capacityReservationGroups/{CapacityReservationGroupName}"              }          } |
| Dissociate VM from a Capacity Reservation Group | There are 2 ways to dissociate a VM from a Capacity Reservation Group:   1. Change quantity reserved for the Capacity Reservation to zero and then dissociate the VM by removing the reference to the Capacity Reservation Group. 2. Deallocate the VM first and then dissociate it by removing the reference to the Capacity Reservation Group. |