

Resource Graph Queries

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Details	Query
Show all virtual machines ordered by name in descending order	<code>project name, location, type where type =~ 'Microsoft.Compute/virtualMachines' order by name desc</code>
Count virtual machines by OS Type (Windows or Linux)	<code>where type =~ 'Microsoft.Compute/virtualMachines' summarize count() by tostring(properties.storageProfile.osDisk.osType)</code>
List virtual machines that match something in their name (Example is for SQL)	<code>where type =~ 'microsoft.compute/virtualmachines' and name contains "sql" project name order by name asc</code>
List virtual machines that used a 2012 version of the marketplace image (By SKU)	<code>where type =~ 'microsoft.compute/virtualmachines' and tostring(properties.storageProfile.imageReference.sku) contains "2012" project name, tostring(properties.storageProfile.imageReference.sku) order by name asc</code>
List virtual machines that used a SQL based marketplace image (By Offer)	<code>where type =~ 'microsoft.compute/virtualmachines' and tostring(properties.storageProfile.imageReference.offer) contains "sql" project name, tostring(properties.storageProfile.imageReference.offer) order by name asc</code>
List storage account count by subscription and location	<code>where type =~ 'Microsoft.Storage/storageaccounts' summarize count() by tostring(subscriptionId), tostring(properties.primaryLocation)</code>
List all virtual machines in a certain region	<code>project name, location, type where type =~ 'Microsoft.Compute/virtualMachines' and location == 'eastus2'</code>
List all virtual machines with a certain VALUE in a TAG	<code>project name, location, type where type =~ 'Microsoft.Compute/virtualMachines' and tags.TAG contains 'VALUE'</code>
List all virtual machines with a certain VALUE in a TAG	<code>project name, properties.hardwareProfile.vmSize, location, type, tags where type =~ 'Microsoft.Compute/virtualMachines' and tags.Role contains 'DB'</code>
List all virtual machines that have been registered with the SQL Virtual Machine Resource Provider and list the license type, the type of agent that is installed onto the VM, the image type along with the version of SQL	<code>where type == "microsoft.sqlvirtualmachine/sqlvirtualmachines" project name, properties.sqlServerLicenseType, properties.sqlManagement, properties.sqlImageOffer, properties.sqlImageSku</code>
List VMs that are using unmanaged disks	<code>where properties.storageProfile.osDisk.vhd.uri <> "" where type =~ 'Microsoft.Compute/virtualMachines'</code>
List all VMs that report to a Log Analytics Workspace	<code>Resources where type == "microsoft.compute/virtualmachines/extensions" and name == "MicrosoftMonitoringAgent" extend VM1 = split(id, "/") extend VMName = VM1[8] extend LogAnalyticsWorkspaceID = properties.settings.workspaceId extend ProvisionState = properties.provisioningState join kind=leftouter (ResourceContainers where type=='microsoft.resources/subscriptions' project SubName=name, subscriptionId) on subscriptionId project SubName, VMName, ProvisionState, LogAnalyticsWorkspaceID</code>