

Power shell - Azure

Get-AzResourceGroup

<https://learn.microsoft.com/en-us/powershell/module/az.resources/get-azresourcegroup?view=azps-13.2.0>

The **Get-AzResourceGroup** cmdlet gets Azure resource groups in the current subscription. You can get all resource groups or specify a resource group by name or by other properties.

```
PS /home/ragasudha> Get-AzResourceGroup |  
>> Sort-Object Location,ResourceGroupName  
  
ResourceGroupName : DP300SqlDatabase  
Location           : centralindia  
ProvisioningState  : Succeeded  
Tags               :  
ResourceId         : /subscriptions/96fe9375-773b-41c9-9097-ebbe931585c5/resourceGroups/DP300SqlDatabase  
  
ResourceGroupName : RG01  
Location           : southcentralus  
ProvisioningState  : Succeeded  
Tags               :  
ResourceId         : /subscriptions/96fe9375-773b-41c9-9097-ebbe931585c5/resourceGroups/RG01
```

```
PS /home/ragasudha> get-AzresourceGroup  
  
ResourceGroupName : DP300SqlDatabase  
Location           : centralindia  
ProvisioningState  : Succeeded  
Tags               :  
ResourceId         : /subscriptions/96fe9375-773b-41c9-9097-ebbe931585c5/resourceGroups/DP300SqlDatabase  
  
ResourceGroupName : RG01  
Location           : southcentralus  
ProvisioningState  : Succeeded  
Tags               :  
ResourceId         : /subscriptions/96fe9375-773b-41c9-9097-ebbe931585c5/resourceGroups/RG01
```

New-AzResourceGroup

<https://learn.microsoft.com/en-us/powershell/module/az.resources/new-azresourcegroup?view=azps-13.2.0>

Create an Azure resource group.

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The `New-AzResourceGroup` cmdlet creates an Azure resource group. You can create a resource group by using just a name and location and then use the `New-AzResource` cmdlet to create resources to add to the resource group.

Create an empty resource group

`New-AzResourceGroup -Name RG01 -Location "South Central US"`

```
PS /home/ragasudha> New-AzResourceGroup -Name RG01 -Location "South Central US"
```

Create a single database - Azure SQL Database

<https://learn.microsoft.com/en-us/azure/azure-sql/database/single-database-create-quickstart?view=azuresql&tabs=azure-powershell#code-try-6>

Azure CLI

<https://learn.microsoft.com/en-us/azure/azure-sql/database/single-database-create-quickstart?view=azuresql&tabs=azure-cli#code-try-6>

The Azure CLI code blocks in this section create a resource group, server, single database, and server-level IP firewall rule for access to the server. Make sure to record the generated resource group and server names, so you can manage these resources later.

Create a resource group

Create a resource group with the [az group create](#) command. An Azure resource group is a logical container into which Azure resources are deployed and managed. The following example creates a resource group named *myResourceGroup* in the *eastus* Azure region:

```
echo "Creating $resourceGroup in $location..."
```

```
az group create --name $resourceGroup --location "$location" --tags $tag
```

Create a server

Create a server with the [az sql server create](#) command.

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echo "Creating \$server in \$location..."

az sql server create --name \$server --resource-group \$resourceGroup --location "\$location" --admin-user \$login --admin-password \$password

Question 1:

Which of the following is correct?

- ☐ Azure SQL Database is PaaS.
Azure SQL Managed Instance and SQL Server on Azure VM are IaaS.
- ☐ Azure SQL Database is IaaS.
Azure SQL Managed Instance and SQL Server on Azure VM are PaaS.
- ☒ Azure SQL Database and Azure SQL Managed Instance are PaaS.
SQL Server on Azure VM is IaaS.
- ☐ Azure SQL Database and Azure SQL Managed Instance are IaaS.
SQL Server on Azure VM is PaaS.

Question 2:

Which of the following can be used to "lift and shift" SQL Server from an on-prem computer to the cloud?

- ☐ Azure SQL Database
- ☐ Azure SQL Managed Instance
- ☒ SQL Server on Azure VM

Question 3:

I want to use SQL Server 2016 Service Pack 2 on Azure.

Which service do I use?

- ☒ **SQL Server on Azure VM**
- ☐ Azure SQL Managed Instance
- ☐ Azure SQL Database

Question 4:

I want to have a database which is 60 Terabytes.

I do not want to manage the SQL Server or an operating system.

Which service do I use?

- ☐ Azure SQL Managed Instance
- ☐ SQL Server on Azure VM
- ☐ Azure SQL Server - General Purpose tier
- ☒ **Azure SQL Server - hyperscale tier**

That's right - you can have up to 100 Tb using the hyperscale tier, and you don't need to manage SQL Server or an operating system.

Question 5:

I want to use CLR (common language runtime) and SQL Agent jobs.

I do not want to manage the SQL Server or an operating system.

Which service do I use?

☐ SQL Server on Azure VM

☐ Azure SQL Database - General Purpose

☐ Azure SQL Database - hyperscale

☒ Azure SQL Managed Instance