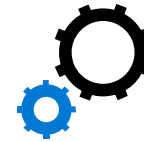


## SQL Server on Azure VM

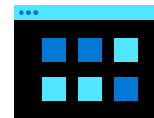
# What is Resource Provider?

Resource Provider brings the functionality of Azure Marketplace images to SQL Server instances self-installed on Azure Virtual Machines

### Key customer benefits



Comprehensive feature set



Dashboard view for VM awareness

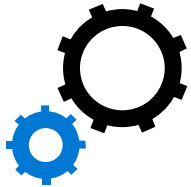


Simple license conversions

\* Some functionality will be available starting July 2019, including new "Azure SQL" blade, full-functionality (auto-patching, auto-backup, etc.) for self-installed SQL VM, and self-install->PAYG license management.

## SQL Server on Azure VM

# Key benefits of Resource Provider on self-installations

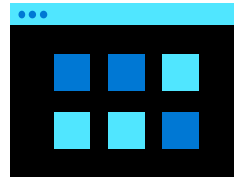


### Comprehensive feature set

Self-installed VMs registered with Resource Provider now can access automation features in Azure Marketplace images



Leverage auto-backup and auto-patching to avoid time-consuming admin and VM customization



### Dashboard view for VM awareness

Azure VMs are now discoverable on the new Azure SQL blade in Azure Marketplace



Easily manage your SQL VM and SQL PaaS deployments from one central location



### Simplified license conversion

Self-installed VMs with RP can be easily converted to PAYG images



Save money by converting variable workloads with Software Assurance to PAYG images

\* Some functionality will be available starting July 2019, including new "Azure SQL" blade, full-functionality (auto-patching, auto-backup, etc.) for self-installed SQL VM, and self-install->PAYG license management.

## SQL Server on Azure VM

# How to take advantage of Resource Provider

1. Register the resource provider to your subscription. You can do so with the Azure Portal, or Azure CLI below:

```
# Register the new SQL resource provider to your subscription  
az provider register --namespace Microsoft.SqlVirtualMachine
```

2. Once subscription registration is complete, register your VM with the SQL VM Resource Provider:

```
# Register your existing SQL Server VM with the new resource provider  
az sql vm create -n <VMName> -g <ResourceGroupName> -l <VMLocation>
```

### Ways to get Resource Provider\*

```
graph TD; A[Ways to get Resource Provider*] --> B[Recommended approach]; A --> C[Lightweight version];
```

#### Recommended approach

##### Full version

Get full access to auto-patching, Always On, auto-backup and other features.

Note: Requires full VM restart.

##### Lightweight version

Speed your provision of Resource Provider with a lightweight process which does not require restarting your VMs.

Note: Does not enable full functionality.

Learn more [www.aka.ms/sqlvm\\_rp](http://www.aka.ms/sqlvm_rp)

\* If you're unable to select Full or Lightweight RP, choose an Agentless approach. Note this option does not enable verification of Resource Provider.

# Azure SQL Resource Provider (RP) benefits

Area	Benefits with Azure SQL Resource Provider	Without Azure SQL Resource Provider
<b>Simplified SQL VM management</b> Monitor and create SQL VM's on one Azure SQL blade [July 2019]	SQL Virtual Machines and SQL specific settings can be managed in dedicated SQL Blades in the Azure Portal. Use SQL VM blade to monitor all SQL VM resources and have a specialized create SQL VM experience. Separate blades are available for each automated administration feature for SQL server like Security settings, automated backup and automated patching.	Complex: Must manually tag each VM running SQL and can only monitor them from Virtual Machines Blades. Current behavior to configure SQL Server Settings on the Portal requires a lot of efforts: there is one long page blade with all SQL Server settings
<b>Simplified Always On Deployment</b> Automated HA and DR provisioning and centralized HADR management & monitoring.	SQL Always On Availability Group configuration and deployment can be managed within the Azure Portal <ul style="list-style-type: none"><li>- HADR Deployment: Automated Always ON AG Provisioning on Single Region and multiple regions with Azure Portal and/or GitHub templates. For example, Azure SQL RP tracks if any resource deployment is failed, and retries the deployment to drive the completion of the end-to-end solution.</li><li>- Manage &amp; Monitor HADR: central portal to manage SQL VMs HADR. Monitor and manage of HADR without need to login to VMs</li></ul>	Configuring Always on AG with SQL on Azure VM manually could be very complex and error prone process.
<b>SQL VMs Automated Patching</b> Save time and money by leveraging automated patching feature for SQL Server.	Companies can setup patching policy for SQL Servers. Automatic patching can be configured, as well as maintenance windows to minimize patching downtime. <b>For example</b> , company can have a policy to automatically deploy SP N-1 or CU N-2. This approach can save business significant amount of time, money and help to keep SQL Server environment secure.	No Policy based automated patching.
<b>Flexible Licensing</b> Convert licensing type for any SQL VM: Pay-as-you-go VM <-> AHB (BYOL)	Increased flexibility to change licensing model for SQL Servers, including the ability to switch to a Pay-as-you-go License on a SQL Server installed by the user. Example: customer who brought SQL VM VHD to Azure and rarely runs the VM on Azure can switch to PAYG model to free up SQL Server license.  Compliance: with Azure SQL RP customers can track all SQL Server VMs with AHB activated.	Cannot change licensing type without Azure SQL RP, only option is replicating DB/VMs

\* Some functionality will be available starting July 2019, including new “Azure SQL” blade, full-functionality (auto-patching, auto-backup, etc.) for self-installed SQL VM, and self-install->PAYG license management.