Azure SQL Database (PaaS)

Azure SQL Database, is one of the two available Platform as a Service deployment options for SQL Server on the Azure cloud platform.

Based on this option, the SQL database service is provided as a platform, where the main philosophy is that you create, use and manage your database using this service.

Below, you can find the main characteristics of this deployment option for SQL Server on Azure:

- Compatibility with on-premises SQL Server instances:
 - It depends. Assessment is required on a per-case manner, since there are some SQL Server on-premises features that are not supported (i.e., SQL Server Agent, etc.).
- Maintenance:
 - o Automated patching and version updates
 - Automated backups
 - High availability
- Availability:
 - o 99.99%
- Security:
 - o SSL/TLS encryption is enforced by default for all connections
 - o All newly created databases are encrypted by default
- Supports SQL Server Agent?
 - o No
- Other Remarks:
 - o Migration and assessment tools:
 - Data Migration Assistant
 - Azure Database Migration Service

Home > Azure SQL > Select SQL deployment option > Create SQL Database >

Create SQL Database

Microsoft

Basics Networking Security Additional settings Tags Review + create

Product details

SQL database by Microsoft Terms of use | Privacy policy Estimated cost per month

29.44 USD

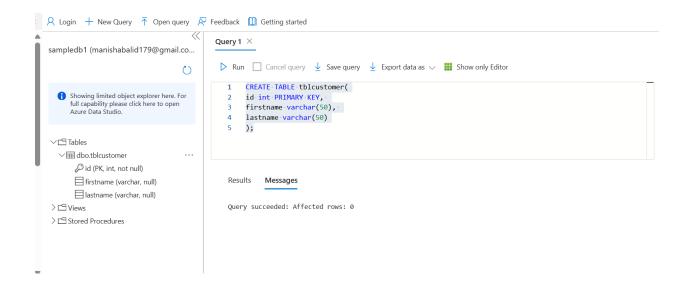
Terms

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see Azure Marketplace Terms.

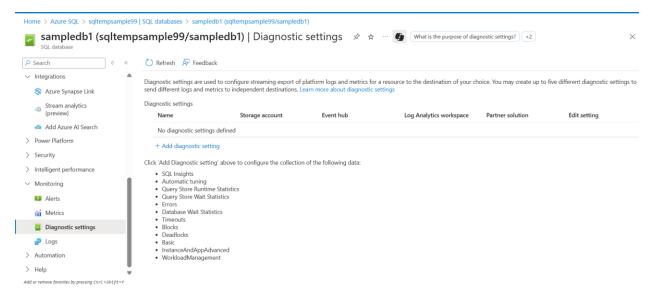
Basics

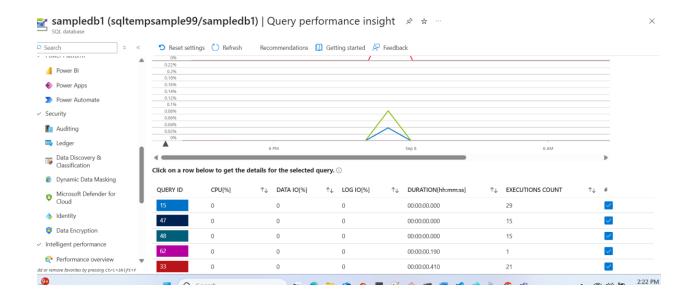
Subscription Azure subscription 1

Resource group sqldemo1



Diagnostics



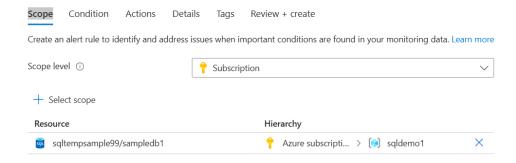


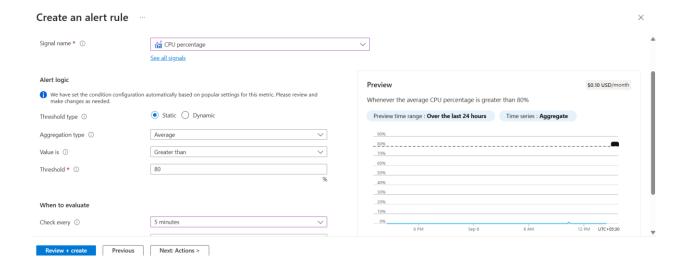
Azure SQL Database Monitoring

Home > sampledb1 (sqltempsample99/sampledb1) | Alerts >

Create an alert rule







Create action group

Basics Notifications Actions Tags Review + create

This is a summary of your action group. Please review to ensure the information is correct and consider <u>Azure N Statement</u>.

Basics

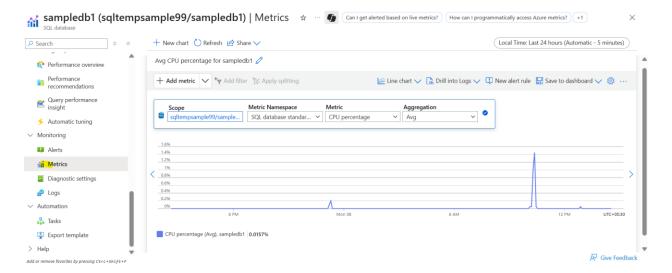
Subscription Azure subscription 1

Resource group sqldemo1
Region global

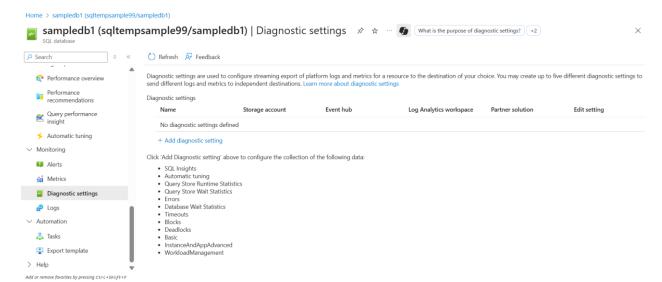
Action group name testactiongroup

Display name testaction

Metrics



Diagnostics



Home \rightarrow sampledb1 (sqltempsample99/sampledb1) | Diagnostic settings \rightarrow

Diagnostic setting

+ Add diagnostic setting

🖫 Save 🗙 Discard 📋 Delete 💆 Feed	dback		
Automatic tuning Query Store Runtime Statistics		Showing all storage accounts including classic storage accounts	
Query Store Wait Statistics		Location North Europe	
Errors		Subscription Azure subscription 1	~
Database Wait Statistics		Storage account * sqltemp99storage	~
Timeouts		Stream to an event hub	
✓ Blocks		Send to partner solution	
Deadlocks			
Metrics			
✓ Basic			
C Refresh Feedback			
Diagnostic settings are used to configure streaming export of platform logs and metrics for a resource to the destination of your choice. You may create up to five different diagnostic settings to send different logs and metrics to independent destinations. Learn more about diagnostic settings			
Diagnostic settings			
Name Sto	corage account Event h	nub Log Analytics workspace Partner so	lution Edit setting
sqldiagnostics sq	ltemp99storage -	-	Edit setting

Azure SQL Database Automation

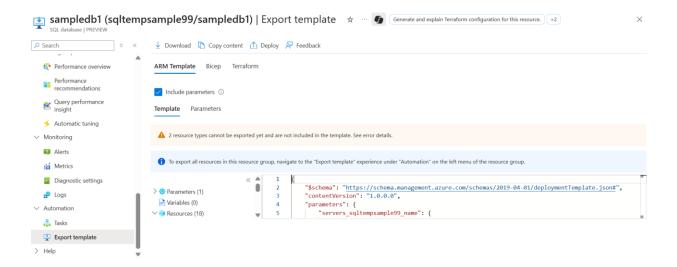




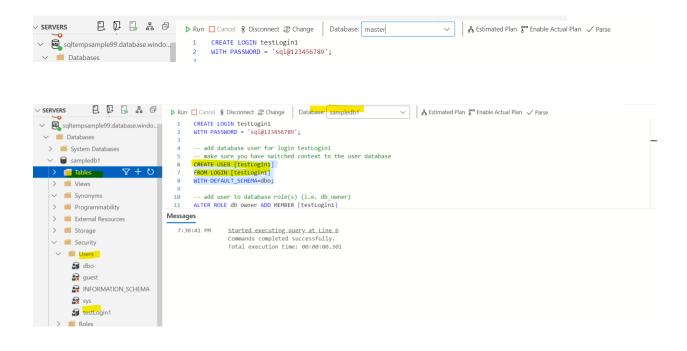
Automation Tasks

Schedule tasks or get notified of changes and take automation actions

Add task

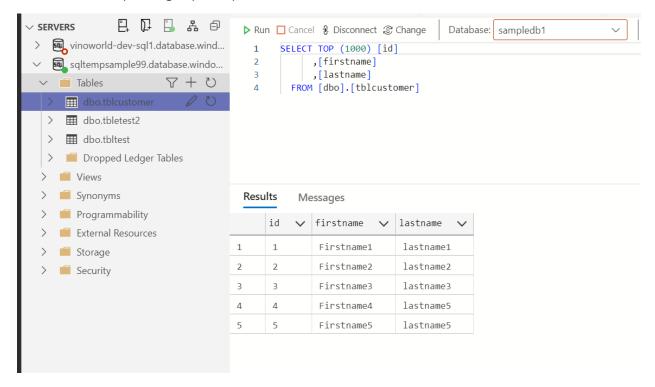


Users for an Azure SQL Database



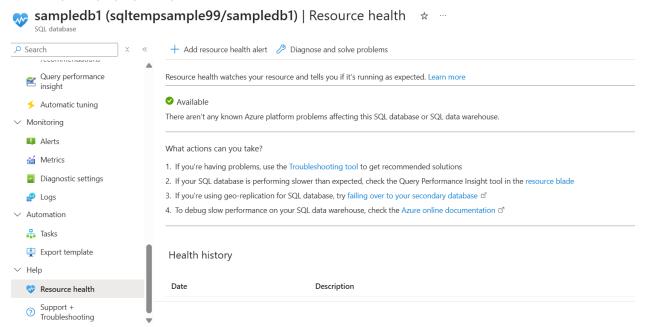


Connect to user (testLogin1)- sampledb1



Resource health

Home > sampledb1 (sqltempsample99/sampledb1)

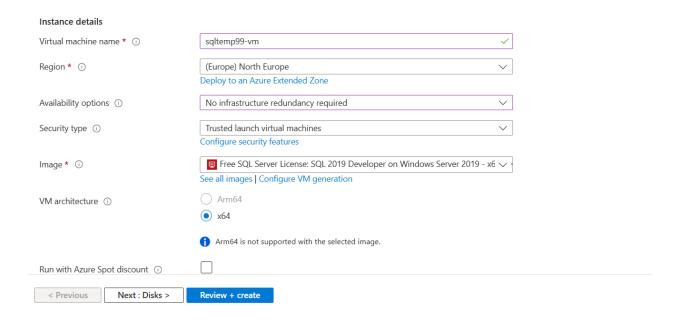


Home > sampledb1 (sqltempsample99/sampledb1)



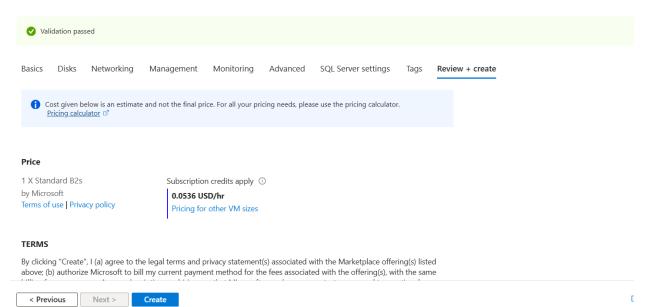
Create an Azure SQL Server Virtual Machine

Create a virtual machine

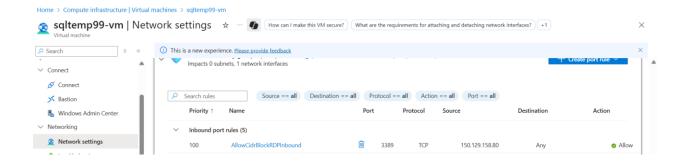


<u>Home</u> > Azure SQL > Select SQL deployment option > Create a virtual machine >

Create a virtual machine

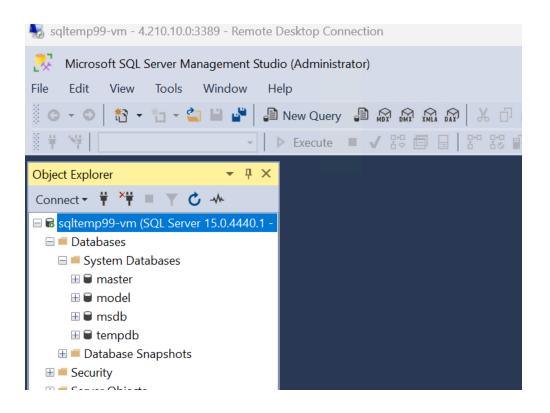


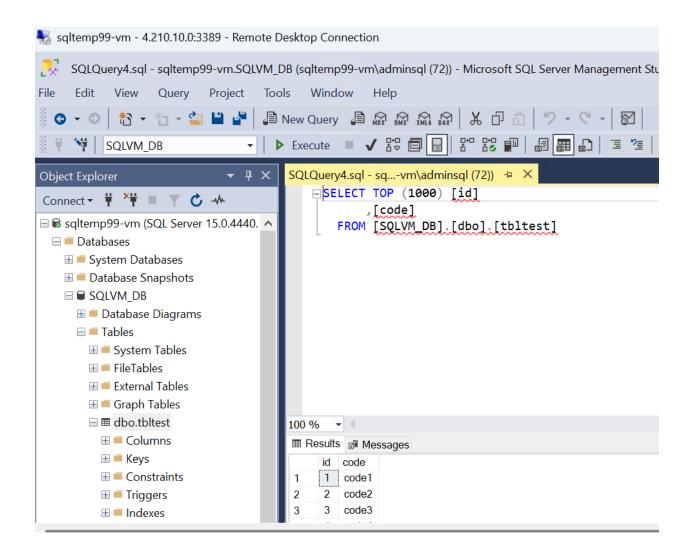
Firewall Rules for Virtual Machine and SQL Server



Accessing the Virtual Machine via RDP







Installing Multiple SQL Server Instances on a Single Azure VM

