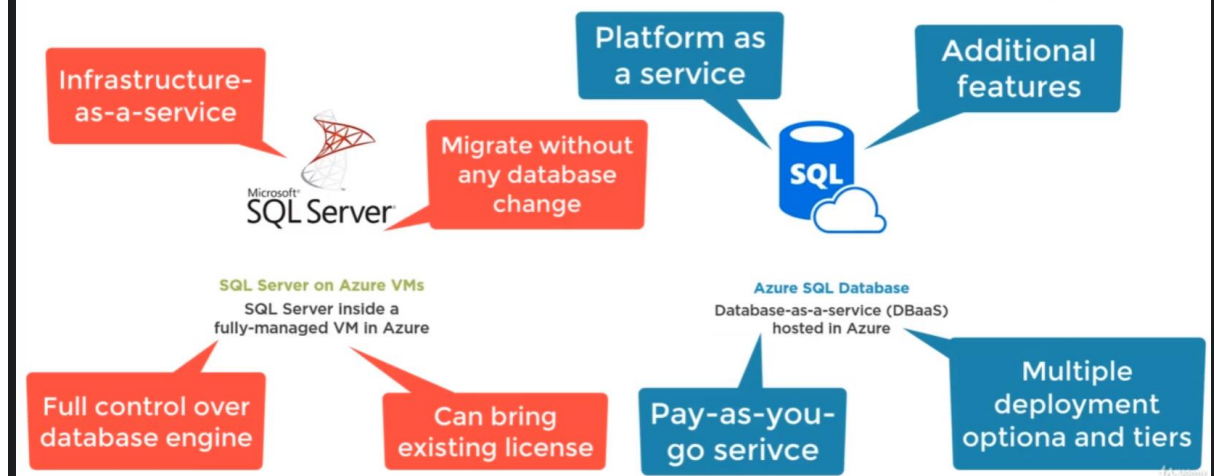
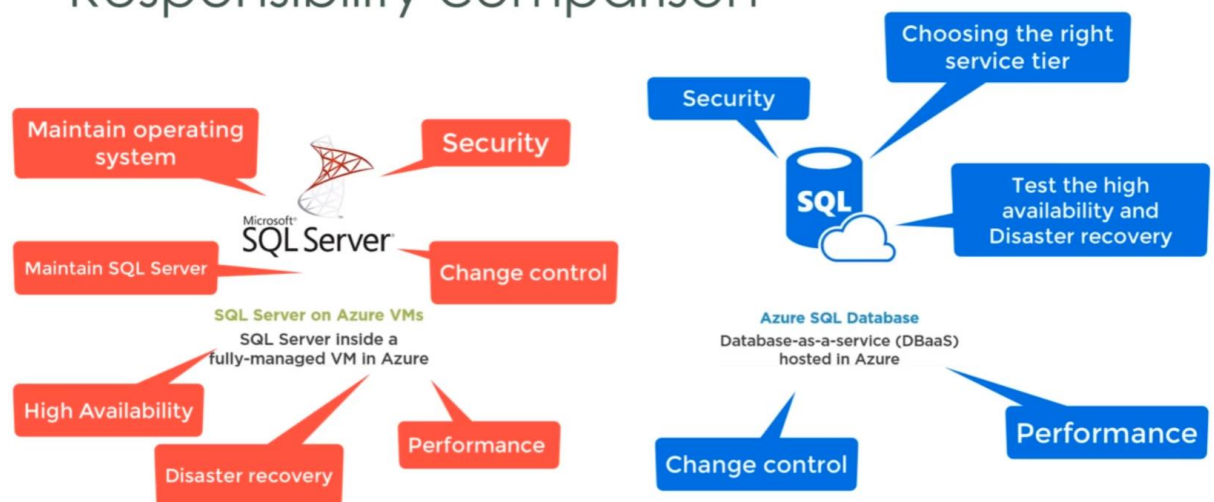


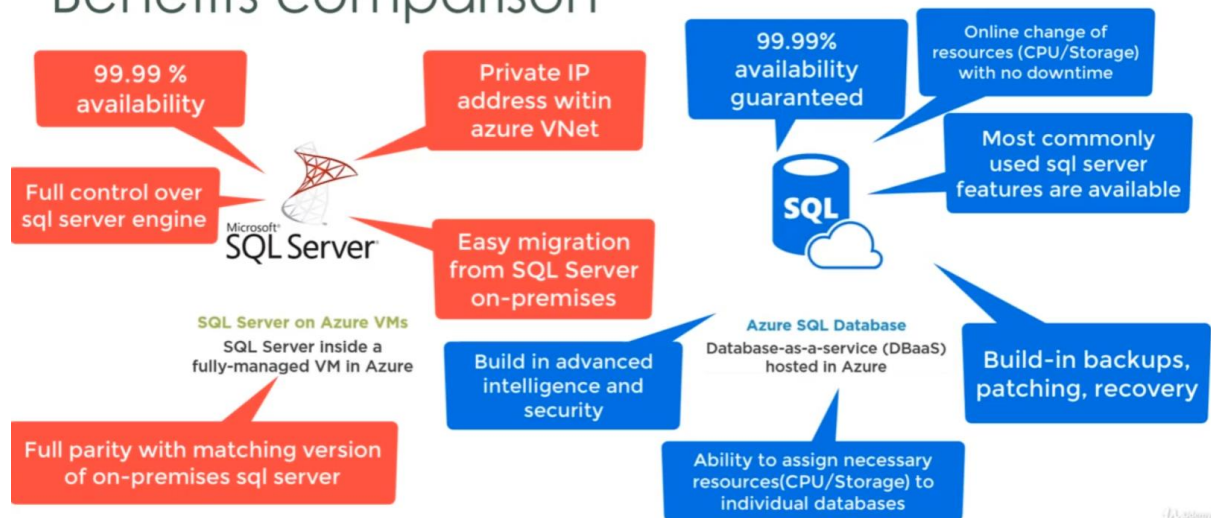
Azure IaaS vs PaaS Database offerings?



Responsibility comparison



Benefits comparison



IaaS vs Managed Instance

One student asked me question about difference between IaaS vs Managed instance. I find that question interesting so adding comparison below.

This slide I have taken from PASS submit. I'll create video on this slide later, meanwhile you can refer this.

Main differences

SQL Server on VM	Managed instance in SQL Database	Single database / elastic pool in SQL Database
<ul style="list-style-type: none"> You have full control over the SQL Server engine Up to 99.95% availability Full parity with the matching version of on-premises SQL Server Fixed, well-known database engine version Previous engine versions support Easy migration from SQL Server on-premises Private IP address within Azure Vnet You have ability to deploy application or services on the host where SQL Server is placed. 	<ul style="list-style-type: none"> High compatibility with SQL Server on-premises 99.99% availability guaranteed Built-in backups, patching, recovery Latest stable Database Engine version (lower comp. level supported) Easy migration from SQL Server. Private IP address within Azure Vnet Built-in advanced intelligence and security Online change of resources (CPU/storage) Automatic tuning available 	<ul style="list-style-type: none"> The most commonly used SQL Server features are available 99.99% availability guaranteed Built-in backups, patching, recovery Latest stable Database Engine version (lower comp. level supported) Ability to assign necessary resources (CPU/storage) to individual databases Built-in advanced intelligence and security Online change of resources (CPU/storage). Automatic tuning available

Comparison of Limitations

SQL Server on VM	Managed instance in SQL Database	Single database / elastic pool in SQL Database
<ul style="list-style-type: none">• SQL Server instances with up to 64 TB of storage• 32,767 databases per instance• Supports Cross-database queries	<ul style="list-style-type: none">• Up to 8 TB storage• Up to 100 databases per instance• Supports Cross-database queries	<ul style="list-style-type: none">• Databases of up to 100 TB• Up to 5000 databases per server• Does not support Cross-database queries