

# Supported Deployment Scenarios for Azure

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## Azure Deployment Scenarios

The following are the Azure deployment scenarios.

Deployment Scenario	Trifacta node installation	Base Storage Layer	Storage - WASB	Storage - ADLS	Storage - Azure SQL Database	Storage - SQL DW	Cluster
Trifacta Wrangler Enterprise install for WASB	Azure	WASB	read/write	read only	read	read/write	<ul style="list-style-type: none"> <li>• HDI</li> <li>• Azure Databricks</li> </ul>
Trifacta Wrangler Enterprise install for ADLS	Azure	HDFS	read only	read/write	read	read/write	<ul style="list-style-type: none"> <li>• HDI</li> <li>• Azure Databricks</li> </ul>
Trifacta Wrangler Enterprise install for ADLS Gen2	Azure	ABFSS	read only	<ul style="list-style-type: none"> <li>• read/write to ADLS Gen2</li> <li>• read only to ADLS Gen1</li> </ul>	read	read/write	<ul style="list-style-type: none"> <li>• Azure Databricks</li> </ul>

## Legend and Notes:

Column	Notes
<b>Deployment Scenario</b>	Description of the Azure-connected deployment
<b>Trifacta node installation</b>	Location where the Trifacta node is installed in this scenario.
<b>Base Storage Layer</b>	When the Trifacta platform is first installed, the base storage layer must be set. <div style="border: 1px solid gray; padding: 10px; margin-top: 10px;"> <p><b>NOTE:</b> After you have begun using the product, you cannot change the base storage layer.</p> </div>
<b>Storage - WASB</b>	For read/write access to WASB, the base storage layer must be set to WASB.
<b>Storage - ADLS Gen1</b>	For read/write access to ADLS (Gen1), the base storage layer must be set to HDFS.
<b>Storage - ADLS Gen2</b>	For read/write access to ADLS Gen2, the base storage layer must be set to ABFSS.

<b>Storage - Azure SQL Database</b>	For Azure installs, you can optionally create a connection to an Azure SQL Database instance.
<b>Storage - SQL DW</b>	For Azure installs, you can optionally create a connection to an Azure-hosted instance of SQL DW.
<b>Cluster</b>	<p>List of Hadoop cluster types that are supported for integration and job execution at scale.</p> <ul style="list-style-type: none"> <li>• The Trifacta platform can integrate with at most one cluster. It cannot integrate with two different clusters at the same time.</li> <li>• Smaller jobs can be executed on the Trifacta Photon running environment, which is hosted on the Trifacta node itself.</li> <li>• For more information, see <i>Running Environment Options</i> in the Configuration Guide.</li> </ul>

## Azure Installations

For more information, see *Install for Azure* in the Install Guide.

## Azure Integrations

The following table describes the different Azure components that can host or integrate with the Trifacta platform. Combinations of one or more of these items constitute one of the deployment scenarios listed in the following section.

Azure Service	Description	Base Storage Layer	Other Required Azure Services
HDI	Microsoft Azure deployments can integrate with an HDI cluster, which can be pre-existing or created at the time of deployment.	Base storage layer can be HDFS (for ADLS) or WASB.	
Azure Databricks	Optionally, you can integrate the Trifacta platform with an Azure Databricks cluster.	Base storage layer can be HDFS (for ADLS) or WASB.	
WASB	Windows Azure Storage Blobs (WASB) extends HDFS to enable access to storage blobs that have not been deployed into the HDI cluster.	Base Storage Layer = WASB	HDI or Azure Databricks Key Vault
ADLS	Active Data Lake Store (ADLS) provides a highly scalable file-based storage system within HDI cluster.	Base Storage Layer = HDFS	HDI or Azure Databricks Key Vault
ADLS Gen2	Azure Data Lake Storage Gen2 is a set of capabilities dedicated to big data analytics, built on Azure Blob storage.	Base Storage Layer = ABFSS	Azure Databricks Key Vault

The following database connections are optional.

Database Name	Description
Hive	<p>You can read from and write to Hive, a data warehouse built on top of HDI.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>NOTE:</b> Access to Hive is not supported on Azure Databricks.</p> </div>
SQL DW	You can read from and write to SQL Data Warehouse, a scalable data warehouse solution for Azure.

Azure SQL Database

You can read from Azure SQL Database, a SQL Server variant for Azure.