

# 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 DB	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>

## 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>	<p>When the Trifacta platform is first installed, the base storage layer must be set.</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p><b>NOTE:</b> After you have begun using the product, you cannot change the base storage layer.</p> </div> <p>For more information, see <a href="#">Set Base Storage Layer</a>.</p>
<b>Storage - WASB</b>	For read/write access to WASB, the base storage layer must be set to WASB. For more information, see <a href="#">Enable WASB Access</a> .
<b>Storage - ADLS</b>	For read/write access to ADLS, the base storage layer must be set to HDFS. For more information, see <a href="#">Enable ADLS Access</a> .
<b>Storage - Azure SQL DB</b>	For Azure installs, you can optionally create a connection to an Azure SQL Database. For more information, see <a href="#">Create Azure SQL Database Connections</a> .
<b>Storage - SQL DW</b>	For Azure installs, you can optionally create a connection to an Azure-hosted instance of SQL DW. For more information, see <a href="#">Create SQL DW Connections</a> .

<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>.</li> </ul>
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## Azure Installations

For more information, see *Install for Azure*.

## 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. See <i>Configure for HDInsight</i> .	Base storage layer can be HDFS (for ADLS) or WASB.	
Azure Databricks	Optionally, you can integrate the Trifacta platform with an Azure Databricks cluster. See <i>Configure for Azure Databricks</i> .	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. See <i>Enable WASB Access</i> .	Base Storage Layer = WASB	HDI cluster WASB Key Vault
ADLS	Active Data Lake Store (ADLS) provides a highly scalable file-based storage system within HDI cluster. See <i>Enable ADLS Access</i> .	Base Storage Layer = HDFS	HDI cluster ADLS 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> <ul style="list-style-type: none"> <li>• For usage information, see <i>Using Hive</i>.</li> <li>• To create the connection, see <i>Create Hive Connections</i>.</li> </ul>
SQL DW	<p>You can read from and write to SQL Data Warehouse, a scalable data warehouse solution for Azure.</p> <ul style="list-style-type: none"> <li>• For usage information, see <i>Using SQL DW</i>.</li> <li>• To create the connection, see <i>Create SQL DW Connections</i>.</li> </ul>
SQL DB	<p>You can read from SQL DB, a SQL Server variant for Azure.</p> <ul style="list-style-type: none"> <li>• For usage information, see <i>Using Databases</i>.</li> <li>• To create the connection, see <i>Create Azure SQL Database Connections</i>.</li> </ul>