

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 Gen1/Gen2	Storage - Azure SQL Database	Storage - SQL DW	Cluster
Designer Cloud powered by Trifacta® Enterprise Edition install for WASB	Azure	WASB	read/write	read only	read	read/write	<ul style="list-style-type: none"> • HDI • Azure Data bricks
Designer Cloud powered by Trifacta Enterprise Edition install for ADLS Gen1	Azure	HDFS	read only	read/write	read	read/write	<ul style="list-style-type: none"> • HDI • Azure Data bricks
Designer Cloud powered by Trifacta Enterprise Edition install for ADLS Gen2	Azure	ABFSS	read only	<ul style="list-style-type: none"> • read /write to ADLS Gen2 • read only to ADLS Gen1 	read	read/write	<ul style="list-style-type: none"> • Azure Data bricks

Legend and Notes:

Column	Notes
Deployment Scenario	Description of the Azure-connected deployment
Trifacta node installation	Location where the Trifacta node is installed in this scenario.
Base Storage Layer	When the Designer Cloud powered by Trifacta platform is first installed, the base storage layer must be set. <div style="border: 1px solid gray; padding: 5px; margin: 10px auto; width: fit-content;"> <p>NOTE: After you have begun using the product, you cannot change the base storage layer.</p> </div>
Storage - WASB	For read/write access to WASB, the base storage layer must be set to WASB.
Storage - ADLS Gen1	For read/write access to ADLS Gen1, the base storage layer must be set to HDFS.

Storage - ADLS Gen2	For read/write access to ADLS Gen2, the base storage layer must be set to ABFSS.
Storage - Azure SQL Database	For Azure installs, you can optionally create a connection to an Azure SQL Database instance.
Storage - SQL DW	For Azure installs, you can optionally create a connection to an Azure-hosted instance of SQL DW.
Cluster	<p>List of Hadoop cluster types that are supported for integration and job execution at scale.</p> <ul style="list-style-type: none"> • The Designer Cloud powered by Trifacta platform can integrate with at most one cluster. It cannot integrate with two different clusters at the same time. • Smaller jobs can be executed on the Trifacta Photon running environment, which is hosted on the Trifacta node itself. • For more information, see <i>Running Environment Options</i> in the Configuration Guide.

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 Designer Cloud powered by 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 Gen1) or WASB.	
Azure Databricks	Optionally, you can integrate the Designer Cloud powered by Trifacta platform with an Azure Databricks cluster.	Base storage layer can be HDFS (for ADLS Gen1), ABFSS (for ADLS Gen2), 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 Gen1	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: 10px; margin: 10px 0;"> <p>NOTE: 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.