

IBAZ: Installation

Prerequisites

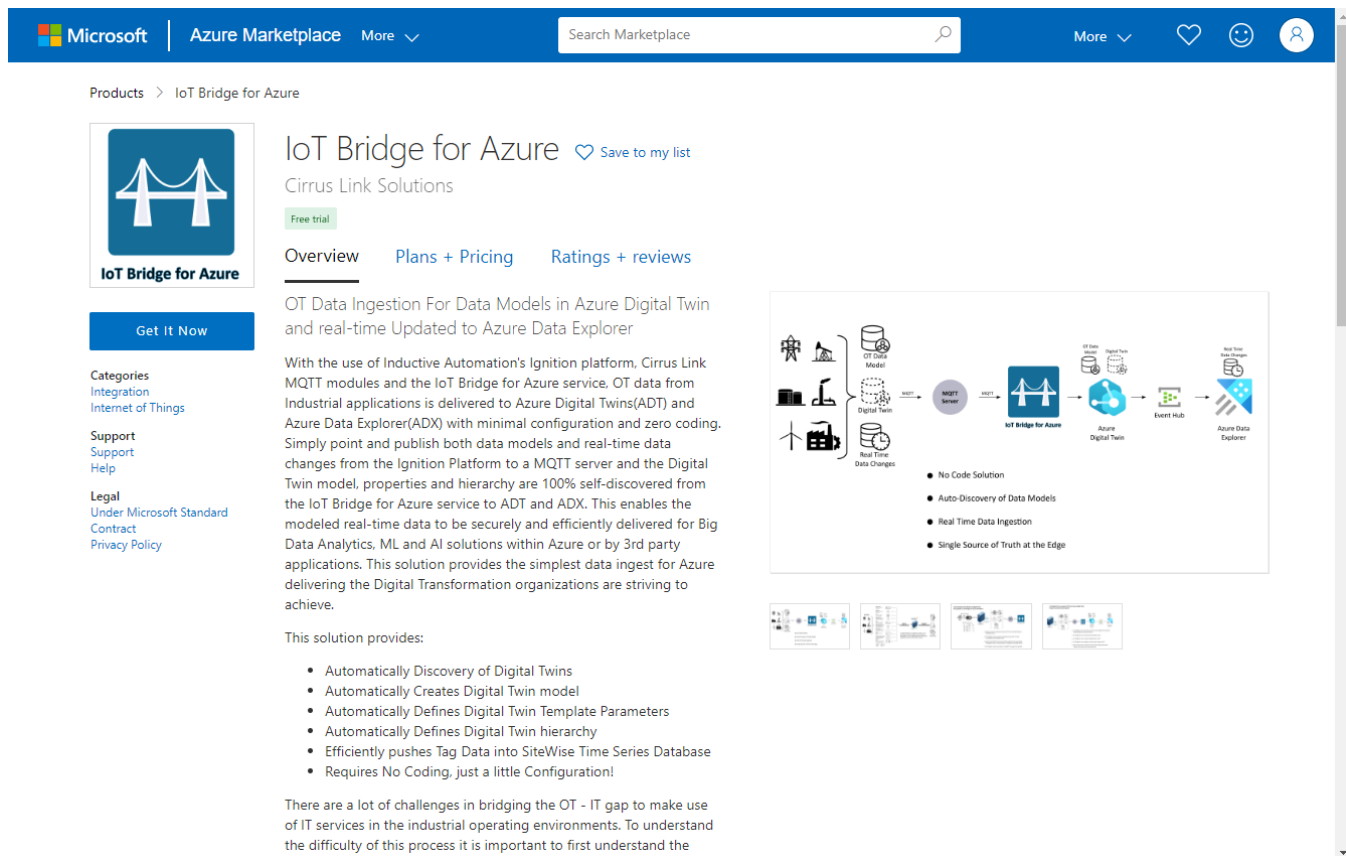
Before being able to install and set up IoT Bridge you must have an Azure account. If you do not already have one you can create one [here](#).

Summary

This process covers installing the IoT Bridge for Azure into an Azure subscription as an VM instance.

IoT Bridge Installation

Select the IoT Bridge for Azure from the Azure Marketplace.



The screenshot shows the Azure Marketplace page for 'IoT Bridge for Azure' by Cirrus Link Solutions. The page includes a 'Get It Now' button, a 'Free trial' badge, and a 'Save to my list' link. The description states that the solution ingests OT data from industrial applications into Azure Digital Twins (ADT) and Azure Data Explorer (ADX) with minimal configuration and zero coding. It highlights the use of Inductive Automation's Ignition platform and Cirrus Link MQTT modules. A diagram illustrates the data flow from industrial sources through a MQTT server to the IoT Bridge for Azure, which then connects to ADT and ADX via Event Hub. A list of benefits is provided: No Code Solution, Auto-Discovery of Data Models, Real Time Data Ingestion, and Single Source of Truth at the Edge. Below the main description, there are four smaller diagrams showing different use cases or components of the solution.

Select Get It Now and then follow the steps in the wizard to create and deploy the VM.



If the subscription is a Microsoft CSP (Cloud Solution Provider) created subscription, the CSP Tenant ID must be provided to CirrusLink to be added to the CSP whitelist on the offering.

The IoT Bridge will fail to deploy with a subscription error if this has not been completed.

To get the Tenant ID:

- Provide the subscription ID to the CSP to give to Microsoft Support
 - The CSP needs to request their CSP Tenant ID for the subscription ID from Microsoft Support
- Provide support@cirrus-link.com the Tenant ID to be added to the CSP whitelist on the offering
 - It usually takes 24 - 48 hours for this submission to complete



When selecting the image, you must select the one named "Standard x64 Gen1" with the IoT Bridge icon next to it as shown below:

Home > Marketplace > IoT Bridge for Azure >

Create a virtual machine

Create new

Instance details

Virtual machine name * ⓘ

Region * ⓘ (US) West US 2

Availability options ⓘ Availability zone

Availability zone * ⓘ Zones 1

☒ You can now select multiple zones. Selecting multiple zones will create one VM per zone. [Learn more](#)

Security type ⓘ Standard

Image * ⓘ **Standard - x64 Gen1**

VM architecture ⓘ

Run with Azure Spot discount ⓘ

Size * ⓘ

Administrator account

Authentication type ⓘ

Recently used

- standard - x64 Gen1
- standard - x64 Gen1
- Standard - x64 Gen1**
- CirrusLink.ComputeGallery.Chariot/Chariot/1.0.3/CirrusLink.ComputeGallery.C
- CirrusLink.ComputeGallery.Chariot/Chariot/1.0.2/CirrusLink.ComputeGallery.C
- Standard - x64 Gen1

Marketplace images to get started

- Ubuntu Server 20.04 LTS - x64 Gen2
- Ubuntu Server 22.04 LTS - x64 Gen2
- SUSE Linux Enterprise Server 15 SP4 + Patching - x64 Gen2
- Red Hat Enterprise Linux 8.7 (LVM) - x64 Gen2
- Oracle Linux 8.6 (LVM) - x64 Gen2

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After the Azure VM Infrastructure has been deployed via the Azure Marketplace 1-click procedure, the application must be configured. In order to configure the application you must be able to access the VM instance via SSH. Information on accessing the VM instance via SSH can be found [here](#).

Reference Documentation

The [IoT Bridge Quickstart Guide](#) covers end to end setup of IoT Bridge including Edge setup and seeing data in Azure Digital Twins.

The [IoT Bridge Configuration Reference](#) covers configuration options for the IoT Bridge VM instance.