

Configure a serverless runtime environment on Azure Native ISV Services

Abstract

Learn how to set up single sign-on from Azure, create an Informatica organization, and set up a serverless runtime environment in the Azure portal.

Supported Versions

- Informatica Intelligent Cloud Services July 2024

Table of Contents

Overview	2
Step 1. Configure the subnet.	2
Step 2. Create an Informatica organization.	3
Step 3. Create a serverless runtime environment.	6
Managing the serverless runtime environment.	8
Running command tasks.	9

Overview

This article explains how to set up an Informatica Intelligent Cloud Services organization and configure a serverless runtime environment in Azure Native ISV Services.

To configure a serverless runtime environment, complete the following steps:

1. Configure the subnet.
2. Create an organization in Azure Native ISV Services.
3. Create a serverless runtime environment.

Step 1. Configure the subnet

Assign a specific subnet for use with the Azure serverless runtime environment.

Ensure that the subnet has internet connectivity. There are several ways to achieve this connectivity, including configuring a NAT gateway with a public IP address.

Ensure that the service endpoint `Microsoft.AzureActiveDirectory` is enabled on the delegated subnet. This is not required if you have configured a NAT gateway with a public IP address.

There is no limit to the number of serverless runtime environments on the same subnet, provided there are enough IP addresses available.

The following table lists the regions for VNET/subnets linked via subnet delegation:

POD	Regions for VNET/subnets linked via subnet delegation
USW1-1 (US West)	West US East US2 US South Central US Central

POD	Regions for VNET/subnets linked via subnet delegation
CAC2 (Canada)	Canada Central Canada East
EMC1 (Germany)	West Europe Germany West Central North Europe
APAUC1 (Australia)	Australia Central Australia Southeast Australia East

1. Use the Azure Cloud Shell to run the following command:

```
az provider register --namespace 'Informatica.DataManagement'
```

This command registers the "Informatica.DataManagement" resource provider in your subscription where your subnet is located.

2. Create a new subnet and delegate this subnet to the following service: `Informatica.DataManagement/organizations`.

Note: Delegating the subnet to the service `Informatica.DataManagement/organizations` must be done after all subnet-related configuration is complete, otherwise issues might occur during subnet configuration.

Step 2. Create an Informatica organization

After you've subscribed to the Informatica single sign-on app and configured your subnet, you can create a new organization or link to an existing organization.

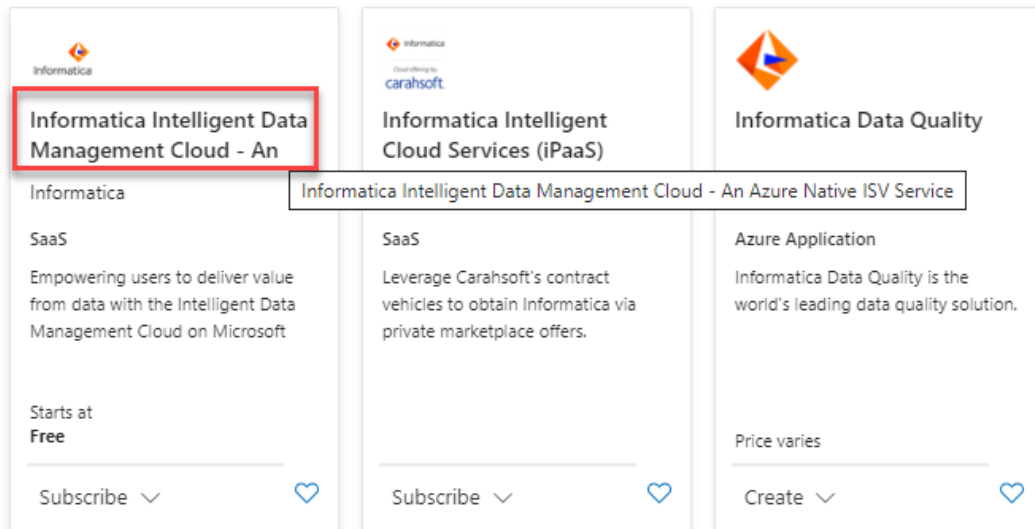
1. From the Azure Portal home page, select **Marketplace**.

2. Search for **Informatica**.

You might see several plans with "Informatica" in their names.

3. Select the plan named **Informatica Intelligent Data Management Cloud - An Azure Native ISV Service**.

If you are in tile or list view, the name is truncated. To confirm that you've selected the correct plan, hover over the name. The following image shows the correct plan:



4. Select the plan specified in your contract, click **Subscribe > Yes, continue**.
The **Create an Informatica organization** page appears.
5. Enter the following information on the **Basics** tab:

Field	Value
Subscription	Select the Azure subscription you want to use to create the Informatica organization. You must have an owner or contributor role for this subscription.
Resource group	Select a resource group or create a new one. You must have a contributor role to this resource group. A resource group is a container that holds related resources for an Azure solution.
Resource Name	Enter a name for the Azure resource.
Region	Select the region where the resource of type "Informatica organization" will be provisioned.
Informatica Region	Select the region that is closest to you. This determines the POD that you'll connect to.
Organization	Choose whether to create a new organization or link to an existing organization. If you link to an existing organization, you can choose either to continue with an existing Informatica billing or use the Azure Marketplace billing. Note: You can only link to a parent organization that has a Production or Sandbox license type. You can't link to a sub-organization or if the license type is Trial. For more information, see <i>Organization Administration</i> .

Field	Value
Organization name	If you are linking to an existing organization, click Link to an existing Informatica organization and provide your login credentials. The Informatica organization created in the Azure portal automatically links to your existing organization.
Plan	The plan you selected earlier is displayed. If you decide to change it, click Change plan .

- Optionally, click **Next: Tags** to create tags to help you categorize Azure resources.



The following are examples of tags:

- Name: <name of admin>, Value: <email address>
- Name: <business unit>, Value: <user's business unit>

Basics **Tags** Review + create

Tags are name/value pairs that enable you to categorize Azure resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn More](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ⓘ	Value ⓘ	Resource
admin	: mfox@informatica.com	Informatica 
business unit	: Analytics	Informatica 
	:	Informatica

Review + create

< Previous

Next: Review + create >

- Click **Next: Review + create**.

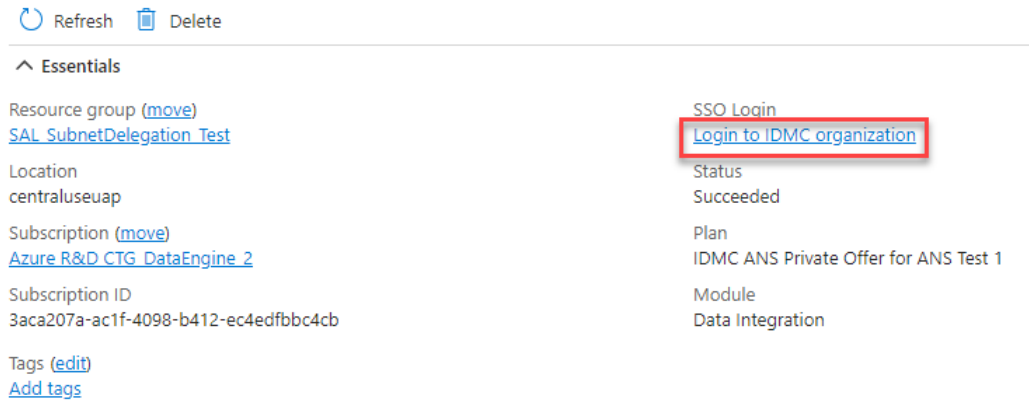
Review the information for accuracy and ensure that **Validation passed** displays at the top of the page.

- To begin the deployment process, click **Create**.

The deployment is complete when you see **Deployment succeeded**.

- To see the resource dashboard for your organization, click **Go to resource**.

- Click **Login to IDMC organization** on the resource dashboard.



Note: It is important to log in to Informatica Intelligent Cloud Services before you create a serverless runtime environment.

- Verify that your personal information is accurate and confirm that you agree to the subscription agreement.
- Click **Confirm** to log in to Informatica Intelligent Cloud Services.
This step is necessary to add you as a user to the system.

Step 3. Create a serverless runtime environment

When you use Azure Native ISV Services, you create and maintain your serverless runtime environments in the Azure portal instead of in Informatica Intelligent Cloud Services.

Note: The System Disk, Data Disk, and Proxy Servers features are currently not supported in Azure serverless runtime environments.

- On your organization's resource page in the Azure portal, click **Serverless Runtime Environment**.
Right now, the list is empty since you have no serverless runtime environments.

- Click **Create New Serverless Environment**.

The configuration is divided across four tabs: **Basics**, **Platform details**, **Runtime configuration**, and **Tags**.

- On the **Basics** tab, enter the following information:

Field	Description
Name	Name of the serverless runtime environment.
Description	Description of the serverless runtime environment.
Task type	Type of tasks that run in the serverless runtime environment: <ul style="list-style-type: none"> - Select Data Integration to run mappings outside of advanced mode. - Select Advanced Data Integration to run mappings in advanced mode.

Field	Description
Maximum computer units per task	Maximum number of serverless compute units corresponding to machine resources that a task can use.
Task time out (Minutes)	By default, the timeout is 2880 minutes (48 hours). You can set the timeout to a value that is less than 2880 minutes.

4. On the **Platform Detail** tab, enter the following information:

Field	Description
Region	Select the region where the serverless runtime environment is hosted.
Virtual network	Select a virtual network to use.
Subnet	Select a subnet within the virtual network to use. Note: Be sure you've completed the prerequisite "Step 1. Configure the subnet" on page 2.
Supplementary file location	ADLS Gen2 location of any supplementary files. Use the following format: <code>abfs://<file_system>@<account_name>.dfs.core.windows.net/<path></code> For example, to use a JDBC connection, you place the JDBC JAR files in the supplementary file location and then enter this location: <code>abfs://discaleqa@serverlessadlsgen2acct.dfs.core.windows.net/serverless</code> If you intend to run command tasks within the Azure serverless runtime environment, create a folder named <code>command_scripts</code> within supplementary file location. For example, you would create the folder here: <code>abfs://discaleqa@serverlessadlsgen2acct.dfs.core.windows.net/serverless/command_scripts</code> For more information about command tasks, see "Command task steps" in <i>Taskflows</i> . Note: Ensure that there are no extra spaces or special characters in the supplementary file location, because this might cause the deployment to fail.
Custom properties	Specific properties are required for accessing the supplementary file location. Add the following custom properties and their appropriate values: - ServicePrincipalId - ServicePrincipalSecret. Check for accuracy, as the secret is masked once the configuration is saved. Informatica Global Customer Support might direct you to add other custom properties. Note: If you clone an Azure serverless runtime environment, you need to re-enter the ServicePrincipalSecret because the original value is replaced by a masked string.

Note: You can't change the supplementary file location and custom properties once the configuration is saved. If you need to make corrections, clone the configuration. For more information about cloning, see ["Managing the serverless runtime environment" on page 8.](#)

5. On the **Runtime Configuration** tab, enter properties that determine how the serverless runtime environment behaves.
Don't make any changes to this tab unless directed by Informatica Global Customer Support.
6. On the **Tags** page, create tags that help you categorize Azure resources and view consolidated billing.
Enter as many tags as necessary as name-value pairs.

7. On the **Review+Create** page, verify that all entries are correct and then click **Create**.
 If you need to go back to make corrections, click **Previous** to return to the appropriate tab.
 For more information on using and managing serverless runtime environments, see [Serverless Runtime Environments](#) on the Informatica Documentation Portal.

Managing the serverless runtime environment

Use the actions provided in the Azure portal interface to manage your serverless runtime environment. The **Serverless Environments** page in Administrator provides additional supplementary actions that you can use.

The following table describes the actions that are available for Azure serverless runtime environments, in the Azure portal:

Action	Description
View properties	Display the properties of the serverless runtime environment. You can perform this action in both the Azure and Informatica Intelligent Cloud Services interfaces.
Edit properties	Edit the properties of the serverless runtime environment. <ul style="list-style-type: none"> - If the environment is up and running, you can edit only certain properties. - If the environment failed, you can edit all the properties. You can perform this action in both the Azure and Informatica Intelligent Cloud Services interfaces.
Delete environment	Delete the serverless runtime environment if there are no dependencies. You can perform this action only in the Azure interface.
Start environment	Start a serverless runtime environment that wasn't running because it had failed. Use this action after you update the properties of the serverless runtime environment. You can perform this action only in the Azure interface.
Clone environment	Copy the selected environment to quickly create a new serverless runtime environment. Cloning an environment can save you time if the properties are mostly similar. You can perform this action only in the Azure interface.

The following table describes that actions that are available on the **Serverless Environments** page in **Administrator**:

Action	Description
View	Display the properties of the serverless runtime environment.
Edit	Edit the properties of the serverless runtime environment. <ul style="list-style-type: none"> - If the environment is up and running, you can edit only certain properties. - If the environment failed, you can edit all the properties.
Redeploy	Also applies to Azure serverless runtime environments.
Clone	Not active for Azure serverless runtime environments. Use the equivalent action in the Azure portal.
Delete	Not active for Azure serverless runtime environments. Use the equivalent action in the Azure portal.
Show Dependencies	Also applies to Azure serverless runtime environments.

Action	Description
Permissions	Also applies to Azure serverless runtime environments.
Download Status Details	Also applies to Azure serverless runtime environments.

For more information on managing serverless runtime environments, see [Managing a serverless runtime environment](#) on the Informatica Documentation Portal.

Running command tasks

To run command tasks in an Azure serverless runtime environment, you must place the shell scripts in a specific folder.

Ensure that there is a folder named `/command_scripts` within the ["Step 3. Create a serverless runtime environment" on page 6](#) of the Azure serverless runtime environment.

1. Place the script files that you want to run in the command task in the `/command_scripts` folder. The `/command_scripts` folder can have its own subfolders.

The files placed in the `/command_scripts` folder are synchronized to the Secure Agent machine, to following folder in the Secure Agent installation directory:

```
apps/Common_Integration_Components/data/command/serverless/command_scripts
```

2. Add a command task step to your taskflow. The script specified in the command task is executed in the Secure Agent Docker container.

The files under `apps/Common_Integration_Components/data/command/serverless/command_scripts` are mounted under the `/command_scripts` folder inside docker container. You can reference any other files by using the relative path. The script working directory is set to `/command_scripts`.

For more information about command tasks, see "Command task step" in *Taskflows*.

Author

Informatica Cloud Trust Team