

Installing and Configuring Informatica Intelligent Cloud Services in Azure Cloud

Abstract

You can use all the features of Informatica Intelligent cloud services through the secure agent on an Azure instance. This article describes how to install and set up Informatica Secure Agent with an Azure virtual Instance to use Informatica Intelligent cloud services.

Supported Versions

Informatica Intelligent Cloud Services

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Overview

Informatica Secure Agent on Azure virtual instance allows you to connect to your Informatica Intelligent cloud services account to leverage your computing needs. Use as many secure agents as your license permits using this solution. Provide IICS registration account details and add a new agent in your IICS account.

Installation Methods

To install Informatica Secure Agent, use one of the following installation methods:

- Marketplace deployment

Deployment Prerequisites

Before you deploy Informatica Intelligent cloud services in the Azure cloud, verify that you have performed the following steps:

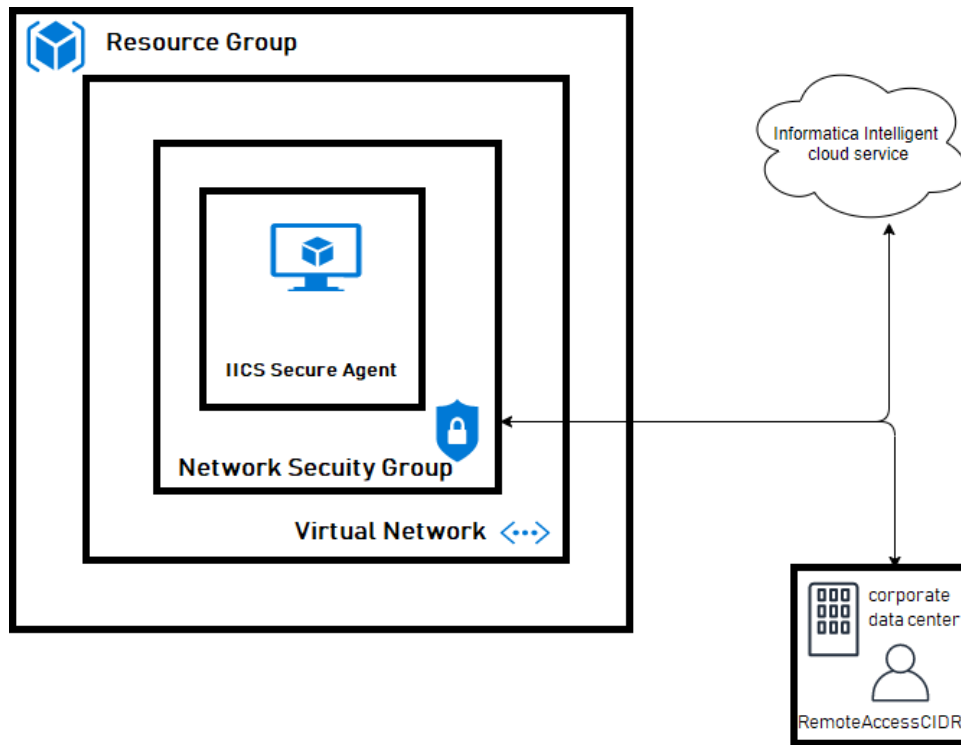
- Make sure that you have a valid account with Microsoft Azure Marketplace.
- Verify that you have a valid subscription in Microsoft Azure Marketplace to create resource
- Create new IICS account <https://dm1-us.informaticacloud.com/ma/register>

Supported Configurations

Operating System	Windows Server 2016 Datacenter Red Hat Enterprise Linux 7.6
Instance size	Standard_D2_v3 Standard_D4_v3 Standard_DS11_v2

Informatica Intelligent cloud services on Azure Architecture Diagram

The following diagram shows the Informatica Intelligent cloud services on Azure architecture with the Azure Marketplace:



Informatica Intelligent cloud services Deployment in the Azure Cloud with the Azure Marketplace

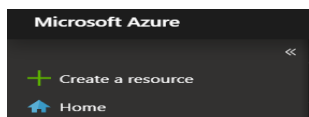
You can deploy Informatica Intelligent cloud services in the Azure cloud with the Azure Marketplace. With the Azure Marketplace or Azure portal, you can ensure automatic and quick deployment of all the infrastructure to run in the Azure cloud.

To deploy Informatica Intelligent cloud services in the Azure cloud with the Azure Marketplace, perform the following steps:

1. Click on given link <https://azuremarketplace.microsoft.com/en-us>.
2. Search **Informatica Intelligent Cloud Services – BYOL**
3. Click on Get it now -> continue

To deploy Informatica Intelligent cloud services in the Azure cloud with the Azure Portal, perform the following steps:

1. Click on given link - <https://portal.azure.com/#home>
2. Choose to create a resource option from top-left corner in azure portal.



3. Search for Informatica **Intelligent Cloud Services – BYOL**
4. Click on create

Deployment Steps:

Step 1. Configure Basic Settings to deploy IICS

Home > Informatica Intelligent Cloud Services - BYOL (preview) > Create Informatica Intelligent Cloud Services - BYOL

Create Informatica Intelligent Cloud Services - BYOL

Basics | IICS Secure Agent Settings | Infrastructure Settings | Review + create

A next-generation iPaaS, reimagined for new hybrid data management challenges with a microservices architecture. The cloud can drive innovation, uncover efficiencies, and help redefine business processes. But these benefits are only achieved when your cloud infrastructure allows you to integrate, synchronize, and relate all data, applications, and processes—on premises or in any part of your multi-cloud environment. Informatica Intelligent Cloud Services is a next generation iPaaS, which is made up of a growing number of data management products. The productivity of the environment is accelerated by a common user experience across all products, the AI/ML-driven intelligence of the CLAIRE™ engine, and a microservices architecture.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Resource Group * ⓘ
[Create new](#)

Instance details

Region * ⓘ

[Review + create](#) [Previous](#) [Next: IICS Secure Agent Settings >](#)

Parameter label (name)	Default	Description
Subscription	<i>Requires input</i>	Select the subscription associated with your account.
Resource Group	<i>Requires input</i>	Create new resource group or choose existing resource group from dropdown list.
Region	<i>Requires input</i>	Select the required regional location where you want to deploy IICS from the Region drop-down list.

Step 2. Configure IICS secure agent settings.

Create Informatica Intelligent Cloud Services-BYOL ...

Basics **IICS Secure Agent Settings** Infrastructure Settings Review + create

Operating system ⓘ

Virtual machine name * ⓘ

Username * ⓘ

Password *

Confirm password *

Size * ⓘ **1x Standard DS11 v2**
2 vcpus, 14 GB memory
[Change size](#)

IICS username * ⓘ

IICS password * ⓘ

Confirm password * ⓘ

Secure agent group name ⓘ

[Review + create](#) [< Previous](#) [Next : Infrastructure Settings >](#)

Parameter label (name)	Default	Description
Operating System	<i>Requires input</i>	Choose deployment operating system. Windows Server 2016 Datacenter Red Hat Enterprise Linux 7.6
Virtual machine name	<i>Requires input</i>	Name of the virtual machine where the IICS deployment resides.
Username	<i>Requires input</i>	Virtual machine username.
Password	<i>Requires input</i>	Virtual machine password
Size	<i>Requires input</i>	Size of your machine i.e. number of cores and thememory size for deploying IICS.
IICS Username	<i>Requires input</i>	Username of Informatica intelligent cloud service i.e. while registering with IICS you have provided ausername, specify same username in box.

Parameter label (name)	Default	Description
IICS Password	<i>Requires input</i>	Password of Informatica intelligent cloud service i.e. while registering with IICS you have provided a password, specify same password in IICS password textbox.
Secure agent group name	<i>Optional</i>	This is optional. Name of the group that you want the Secure Agent to join to. If your account doesn't have the group mentioned in this input the agent will be added to an unnamed group. If this field is kept empty, then the agent will create its own group.

Note: If IICS Username and Password is incorrect then, connection with secure agent will not work. To establish the connection with secure agent, follow the steps provide in log file (for **Linux** - /home/iics/iics_log.log and for windows - C:\Informatica\secureagent.log).

Step 3. Configure Infrastructure setting

Home > Informatica Intelligent Cloud Services - BYOL (preview) > Create Informatica Intelligent Cloud Services - BYOL

Create Informatica Intelligent Cloud Services - BYOL

Basics IICS Secure Agent Settings **Infrastructure Settings** Review + create

Configure virtual networks

Virtual Network * ⓘ (new) SecureAgentVNET

Subnet * ⓘ (new) SecureAgentSubnet (10.4.0.0/24)

CIDR IP Address Range * ⓘ

Parameter label (name)	Default	Description
Virtual network	<i>Requires input</i>	<p>Click Virtual network. The Choose virtual network pane appears with the list of virtual networks associated with the subscription and location you specified. Select the required virtual network or click Create new to create a new virtual network.</p> <ul style="list-style-type: none"> • Configure the following parameters if you want to create a new virtual network: • Name. Specify a unique name for the new virtual network. • Address space. Specify the range of IP addresses for the virtual network
Subnets	<i>Requires input</i>	<p>Click Subnets to specify the subnets that must include all resources such as cluster components and virtual machines. The Subnets pane appears. Configure the following properties for the subnets:</p> <ul style="list-style-type: none"> • Subnet name. Specify a unique name for the subnet. • Subnet address prefix. Specify a range of IP addresses for the subnets.
CIDR IP Address Range	<i>Requires input</i>	<p>The CIDR public IP address range that you can use to access the secure agent. For example: 108.124.81.10/32</p>

Step 4. Summary of deployment.

Create Informatica Intelligent Cloud Services-BYOL ...

✓ Validation Passed

Subscription	Azure R&D PM Marketplace
Resource group	hhh
Region	Southeast Asia

IICS Secure Agent Settings

Operating system	Windows Server 2016 Datacenter
Virtual machine name	vm-test
Username	infauser
Password	*****
Size	Standard_DS11_v2
IICS username	iicsuser
IICS password	*****
Secure agent group name	-

Infrastructure Settings

Virtual network	SecureAgentVNET
Subnet	SecureAgentSubnet
Address prefix (Subnet)	10.1.0.0/16
CIDR IP Address Range	130.67.66.90/32

Create

< Previous

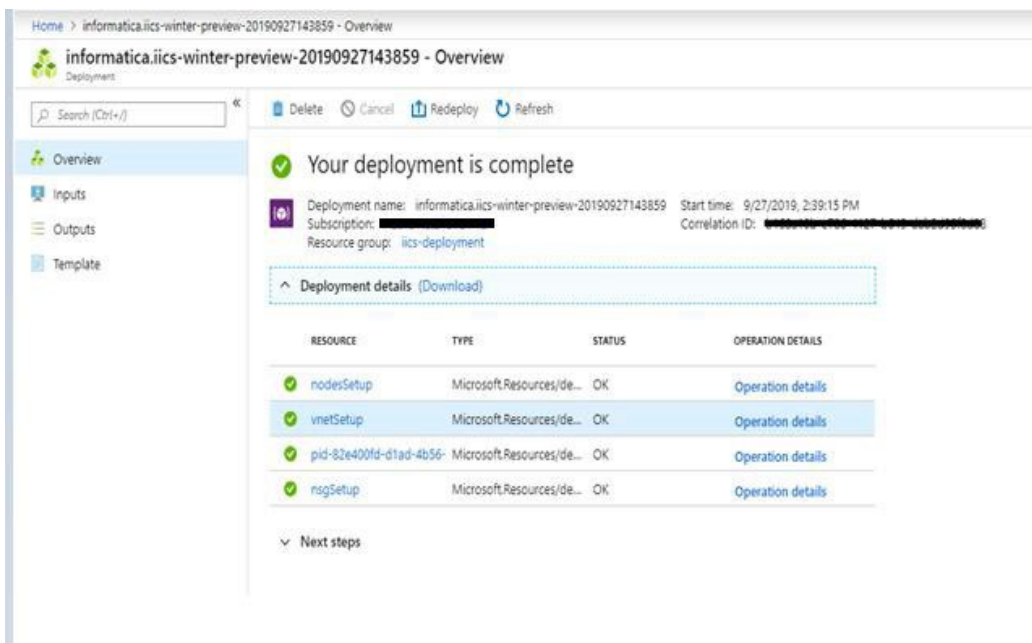
Next

[Download a template for automation](#)

➤ The summary page displays all the inputs provided. The template validates the properties and values that you provided for correctness. If any of the properties is incorrect and the validation fails, you cannot proceed further without correcting the property values

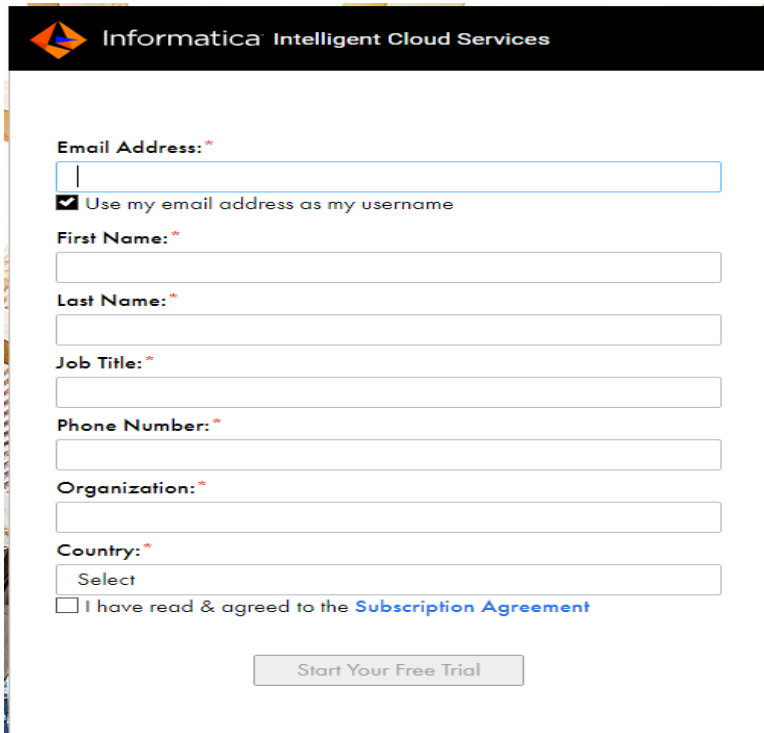
➤ Click **Create** to deploy IICS on Microsoft Azure Marketplace. The deployment progress appears on the top right corner of your screen.

1. The template deploys the components in the following order:
2. vnetSetup is for VPN and setups is for network security group
3. nodesSetup is for Linux or Windows virtual machine and to install secure agent in it.



How to register with Informatica Intelligent Cloud Services Account.

Go to <https://dm1-us.informaticacloud.com/ma/register> and fill up the form. You will get a registration confirmation mail with link to create your password.



The screenshot shows the registration form for Informatica Intelligent Cloud Services. The form is titled "Informatica Intelligent Cloud Services" and includes the following fields and options:

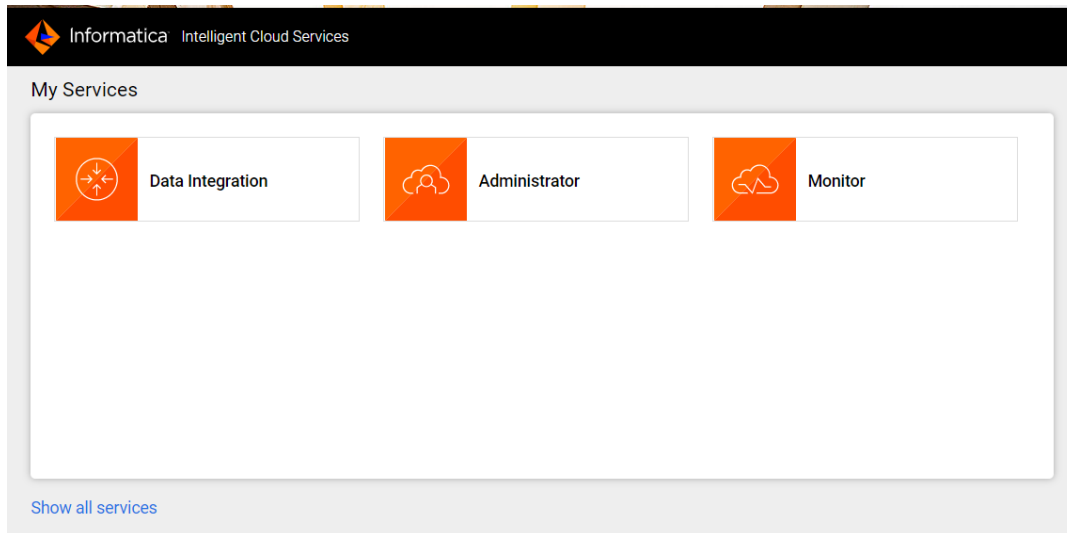
- Email Address: *** (Text input field)
- Use my email address as my username
- First Name: *** (Text input field)
- Last Name: *** (Text input field)
- Job Title: *** (Text input field)
- Phone Number: *** (Text input field)
- Organization: *** (Text input field)
- Country: *** (Dropdown menu with "Select" as the current selection)
- I have read & agreed to the [Subscription Agreement](#)

At the bottom of the form, there is a button labeled "Start Your Free Trial".

Once new password generation is done log into your account using the region of pod you chose at the time of registration.

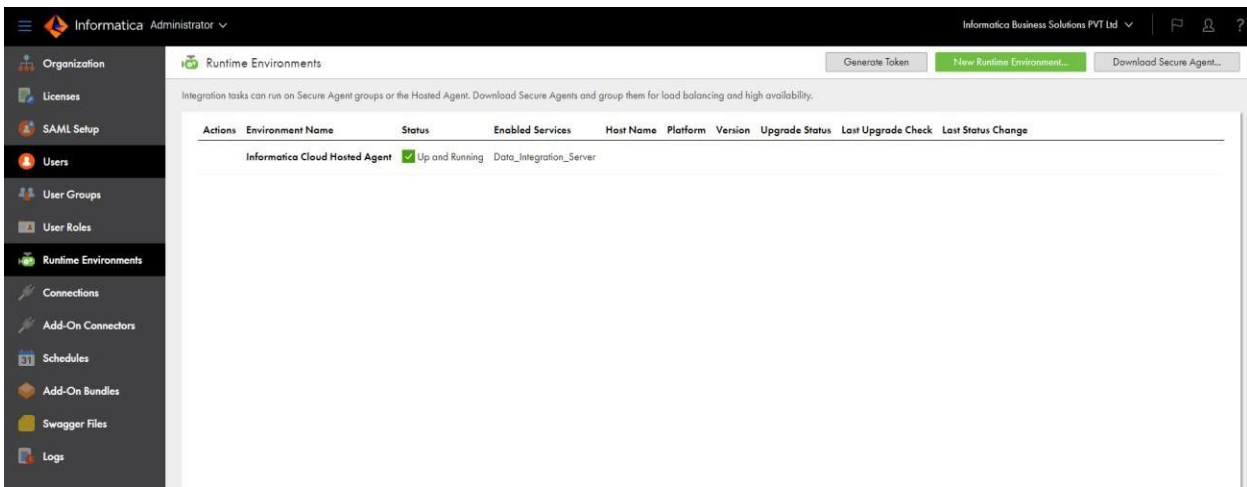
Note: There is only one datacenter location for IICS in Azure i.e. in US location.

Steps to be followed to create secure agent group in IICS account.



Click on Administrator.

Then choose Runtime environments. There you will see your secure agents if any added.



Create secure agent groups:

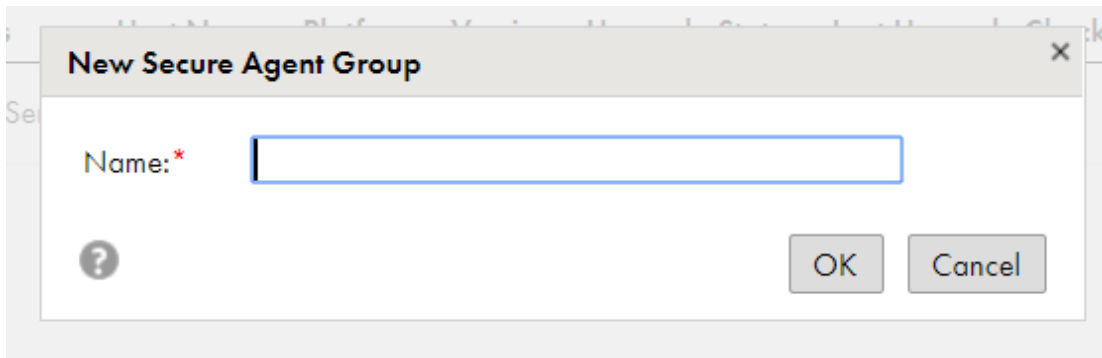
The screenshot displays the Informatica Administrator web interface. The top navigation bar includes the Informatica logo, the user role 'Administrator', and the organization name 'Informatica Business Solutions PVT Ltd'. The left sidebar contains a menu with categories: Organization, Licenses, SAML Setup, Users, User Groups, User Roles, Runtime Environments (highlighted), Connections, Add-On Connectors, Schedules, Add-On Bundles, Swagger Files, and Logs.

The main content area is titled 'Runtime Environments'. It features three buttons at the top: 'Generate Token', 'New Runtime Environment...' (circled in red), and 'Download Secure Agent...'. Below the buttons is a descriptive text: 'Integration tasks can run on Secure Agent groups or the Hosted Agent. Download Secure Agents and group them for load balancing and high availability.'

A table lists the existing runtime environments:

Actions	Environment Name	Status	Enabled Services	Host Name	Platform	Version	Upgrade Status	Last Upgrade Check	Last Status Change
	Informatica Cloud Hosted Agent	Up and Running	Data_Integration_Server						

Click on “New Runtime Environment” then create a new group.



Troubleshooting

After you complete the deployment, see the log files to know the status of the deployment. You can access the log files on the Linux virtual machine at the following location:

- /home/iics/apps/agentcore/agentcore.log
- /home/iics/apps/agentcore/infaagent.log
- /home/iics/iics_log.log

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