

How to: Install and Configure Informatica Intelligent Cloud Services in Google Cloud

Abstract

You can use all the features of Informatica Intelligent Cloud Services™ through the Secure Agent on a Google Cloud Platform (GCP) instance. This article describes how to install and set up a Secure Agent with a GCP virtual instance to use Informatica Intelligent Cloud Services.

Supported Versions

- Informatica Intelligent Cloud Services GCP Beta (Dec 2019)

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Overview

Use the Informatica Secure Agent on a GCP virtual instance to connect to your Informatica Intelligent Cloud Services (IICS) account to leverage your computing needs. You can deploy as many Secure Agents as your license permits using

this solution. This article explains how to provide IICS registration account details and add a new agent in your IICS account.

Intended audience

This article is written for users that are familiar with Google Cloud Platform services and Informatica Intelligent Cloud Services. Users should have a basic understanding of how identity and access work in Google Cloud Platform.

Cost and licensing

Users need to acquire Informatica Intelligent Cloud Services license before deploying this product from Google Cloud Marketplace. Users are responsible for Google Cloud service usage charges such as compute engine, network egress, public IP allocation, etc. Google Cloud service charges are separate from the Informatica licensing fee.

Deployment prerequisites

Before you deploy Informatica Intelligent Cloud Services in the GCP cloud, verify that you have performed the prerequisite steps and that the network requirements are met.

Verify that you have performed the following steps:

- You have a valid account with Google Cloud Marketplace.
- You have a valid IICS account.
- Apart from roles and network, to work with GCP, you have enabled the following APIs in the Google cloud project:
 - Compute Engine API
 - Cloud Deployment Manager V2 API
 - Cloud Runtime Configuration API
 - Identity and Access Management (IAM) API
 - Cloud Resource Manager API
 - Google Cloud DNS API
 - Service Usage API
 - Google Cloud APIs
 - Google Cloud Storage JSON API
 - IAM Service Account Credentials API
- The **<project-number>@cloudservices.gserviceaccount.com** service account has the owner role attached to it or that it has at least the following roles:
 - Deployment Manager Editor
 - Deployment Manager Type Editor
 - Project IAM Admin
 - Service Account Admin
 - Service Account Key Admin
 - Compute Admin
 - Cloud Runtime Config Admin

- Compute Storage Admin

Note: The service account mentioned above is used by the deployment manager, so specified roles are required. All VMs created by the deployment will be attached to a different service account (custom created role attached) which is also created at the time of deployment.

The custom role has the following permissions:

```
runtimeconfig.configs.create
runtimeconfig.configs.delete
runtimeconfig.configs.get
runtimeconfig.configs.getIamPolicy
runtimeconfig.configs.list
runtimeconfig.configs.setIamPolicy
runtimeconfig.configs.update
runtimeconfig.operations.get
runtimeconfig.operations.list
runtimeconfig.variables.create
runtimeconfig.variables.delete
runtimeconfig.variables.get
runtimeconfig.variables.getIamPolicy
runtimeconfig.variables.list
runtimeconfig.variables.setIamPolicy
runtimeconfig.variables.update
runtimeconfig.variables.watch
runtimeconfig.waiters.create
runtimeconfig.waiters.delete
runtimeconfig.waiters.get
runtimeconfig.waiters.getIamPolicy
runtimeconfig.waiters.list
runtimeconfig.waiters.setIamPolicy
runtimeconfig.waiters.update
logging.logEntries.create
```

The network must meet the following requirements:

- Google Network must have one subnetwork created in the intended deployment region.
- At least one route must be present with destination to the selected subnetwork CIDR range.
- The selected subnetwork must have Google Cloud private access enabled if you do not intend to use public IPs for the VM, and it must have access to the Internet via any gateway.

Supported configurations

Operating systems:

- Windows Server 2016 Datacenter
- Red Hat Enterprise Linux 7.6

Instance size:

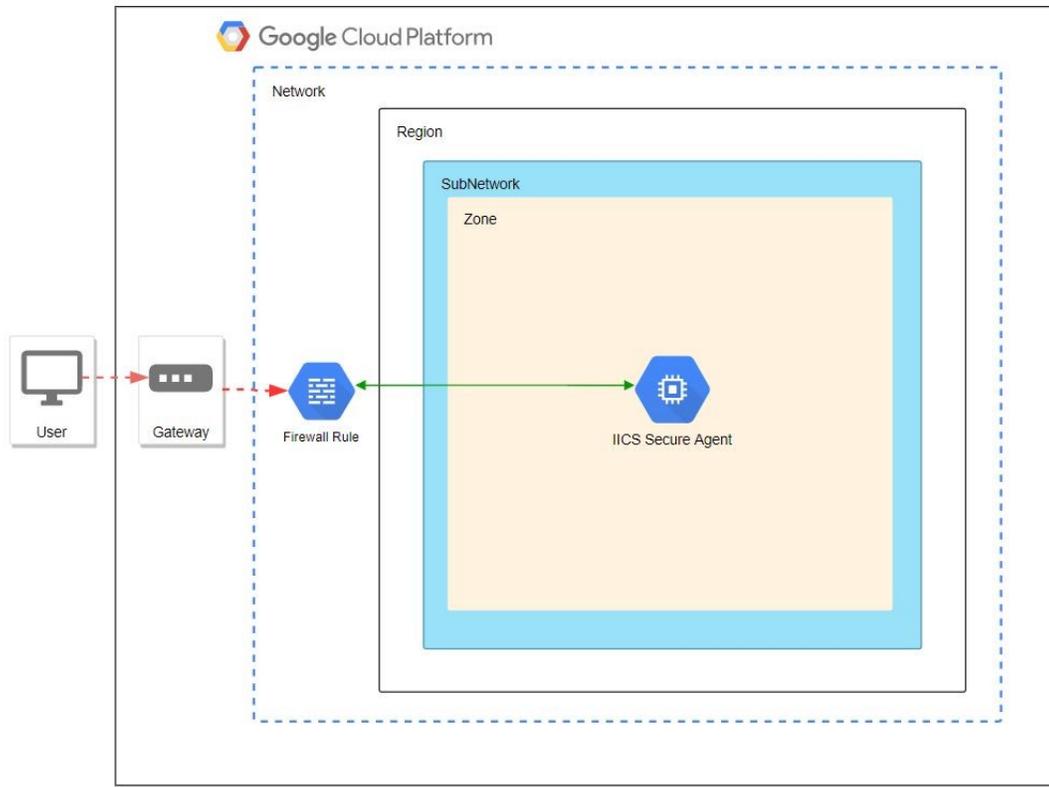
- Default n1-standard-4

The following table lists all resources created with sizing details:

Resource	Sizing
Firewall rule	1 firewall rule
Service account	1 service account
Custom rule	1 custom rule
Cloud function	1 cloud function
Runtime config	1 runtime config
Runtime waiter	1 runtime waiter
VM instance	1 (4 vCPU and 15 GB RAM) Informatica Secure Agent VM. CPU and RAM can be increased by the user.

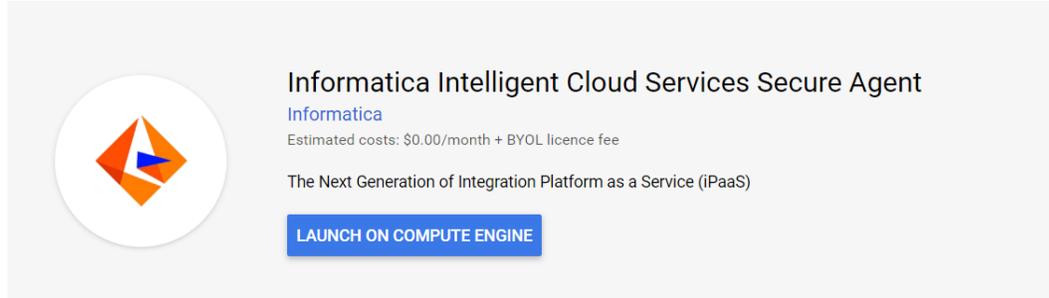
IICS on GCP architecture diagram

The following diagram shows Informatica Intelligent Cloud Services on GCP architecture with the GCP Marketplace:



IICS deployment in the GCP Cloud with the GCP Marketplace

1. Search for Informatica IICS Secure Agent on the Google Cloud Marketplace and click the found product link.
2. An overview page appears, as shown in the following image:



Runs on
Google Compute Engine

Type
Single VM
BYOL

Last updated
04/11/2019, 12:54

Category
[Analytics](#)
[Big data](#)

Version
Winter 2019

Operating system

Overview

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.

[Learn more](#) 

About Informatica

Informatica is the only proven Enterprise Cloud Data Management leader that accelerates data-driven digital transformation. Informatica enables companies to fuel innovation, become more agile, and realize new growth opportunities, resulting in intelligent market disruptions.

3. Click **Launch on Compute Engine**.
4. Select the appropriate project.

The **New Informatica Intelligent Cloud Services Secure Agent deployment** page is displayed, as shown in the following image:

Deployment name

Virtual Machine Configuration

Region ?

Operating System

Machine Type ?

15 GB memory [Customise](#)

Networking

Network ?

Subnetwork ?

Informatica Intelligent Cloud Services Account Details

Username ?
Username for the Informatica Intelligent Cloud Services account

Install Token ?
Secure Agent registration requires an install token. To get the install token, login to your IICS account and use the Generate Install Token option in Administrator

Deploy

5. Enter the deployment parameters including the deployment name, VM configuration properties, networking properties, and Informatica Intelligent Cloud Services account details.
6. Click **Deploy** to start the deployment.

When the deployment finishes successfully, the output screen displays the following field:

Field	Description
Secure Agent Public IP / Private DNS	DNS or IP to access the Informatica Secure Agent instance.

Deployment parameters

Configure the deployment parameters on the **New Informatica Intelligent Cloud Services Secure Agent deployment** page.

The following tables describe the deployment parameters:

Deployment Name

Parameter	Description
Deployment Name	Google Cloud deployment manager managed field.

Virtual Machine Configuration properties

Parameter	Description
Region	Google Cloud Platform zone in which the deployment should take place.
Operating System	Operating system for the Secure Agent to deploy. Select Microsoft Windows Server 2016 or Red Hat Linux 7.6.
Machine Type	Select the CPUs and RAM sizing for the instance of the Secure Agent machine.

Networking properties

Parameter	Description
Network	Select the network in which all resources will be created.
Subnetwork	Select the subnetwork within the zone.

Informatica Intelligent Cloud Services Account Details

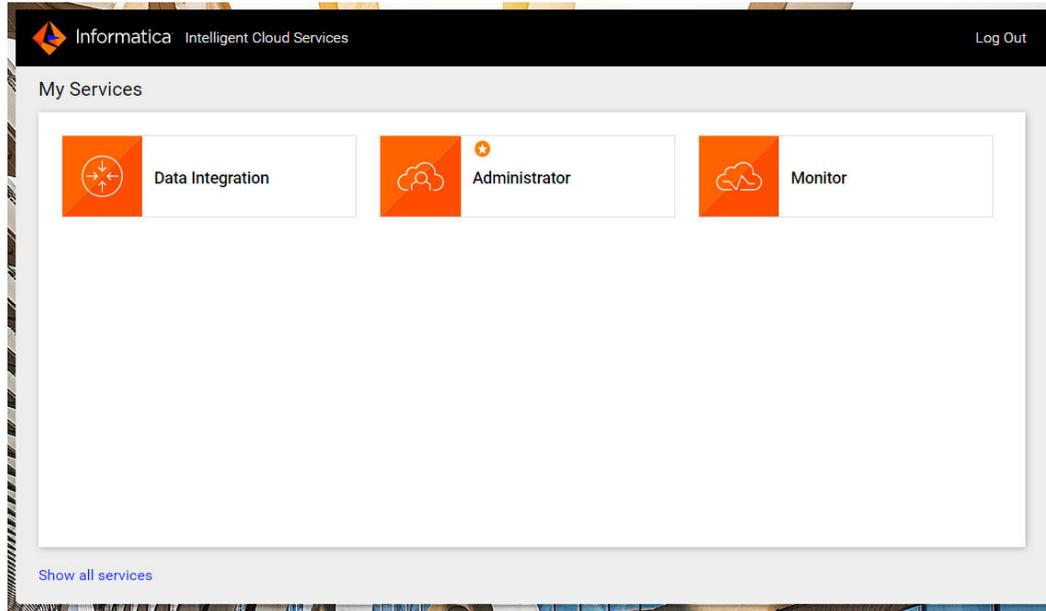
Parameter	Description
Username	IICS account user name.
Token	Install token used to deploy the Secure Agent. To get the token, log in to your Informatica Intelligent Cloud Services account, open the Administrator service, and click Generate Install Token on the Runtime Environments page.

Steps to generate an install token

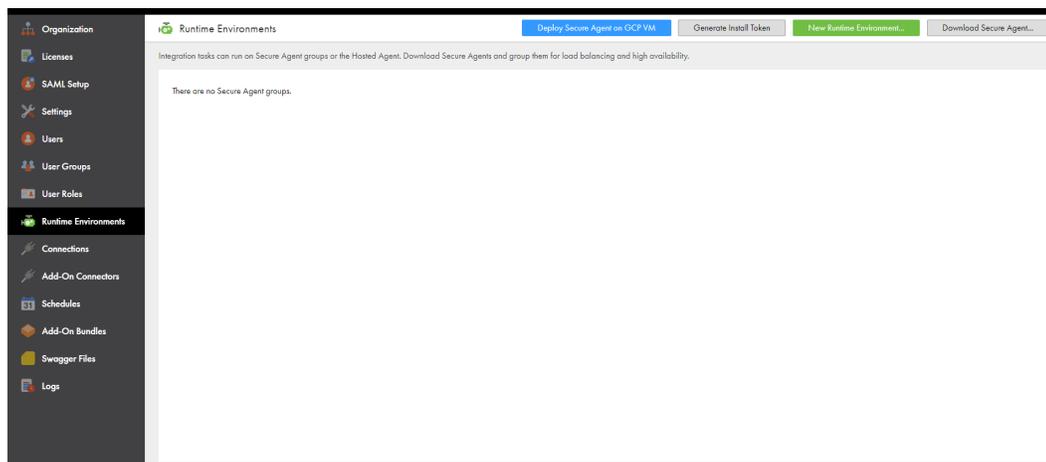
To deploy a Secure Agent in Google Cloud Platform, you need an install token. Get the install token from the **Runtime Environments** page in the Administrator service, and paste it in the **Token** field in the **New Informatica Intelligent Cloud Services Secure Agent deployment** page in Google Cloud Platform.

1. Log in to your Informatica Intelligent Cloud Services account.

You will see the **My Services** page, as shown in the following image:

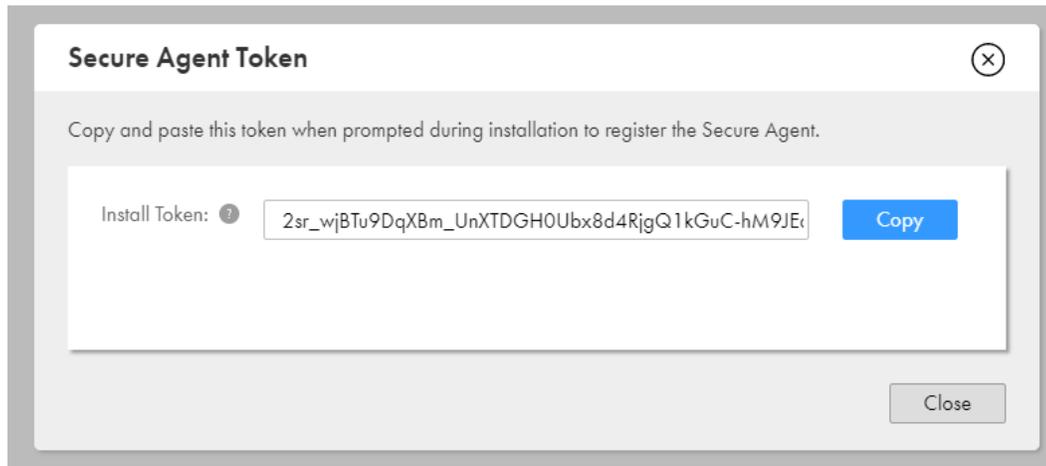


2. Choose **Administrator**.
3. Open the Runtime Environments page, as shown in the following image:



4. Click **Generate Install Token**.

An install token is generated, as shown in the following image:

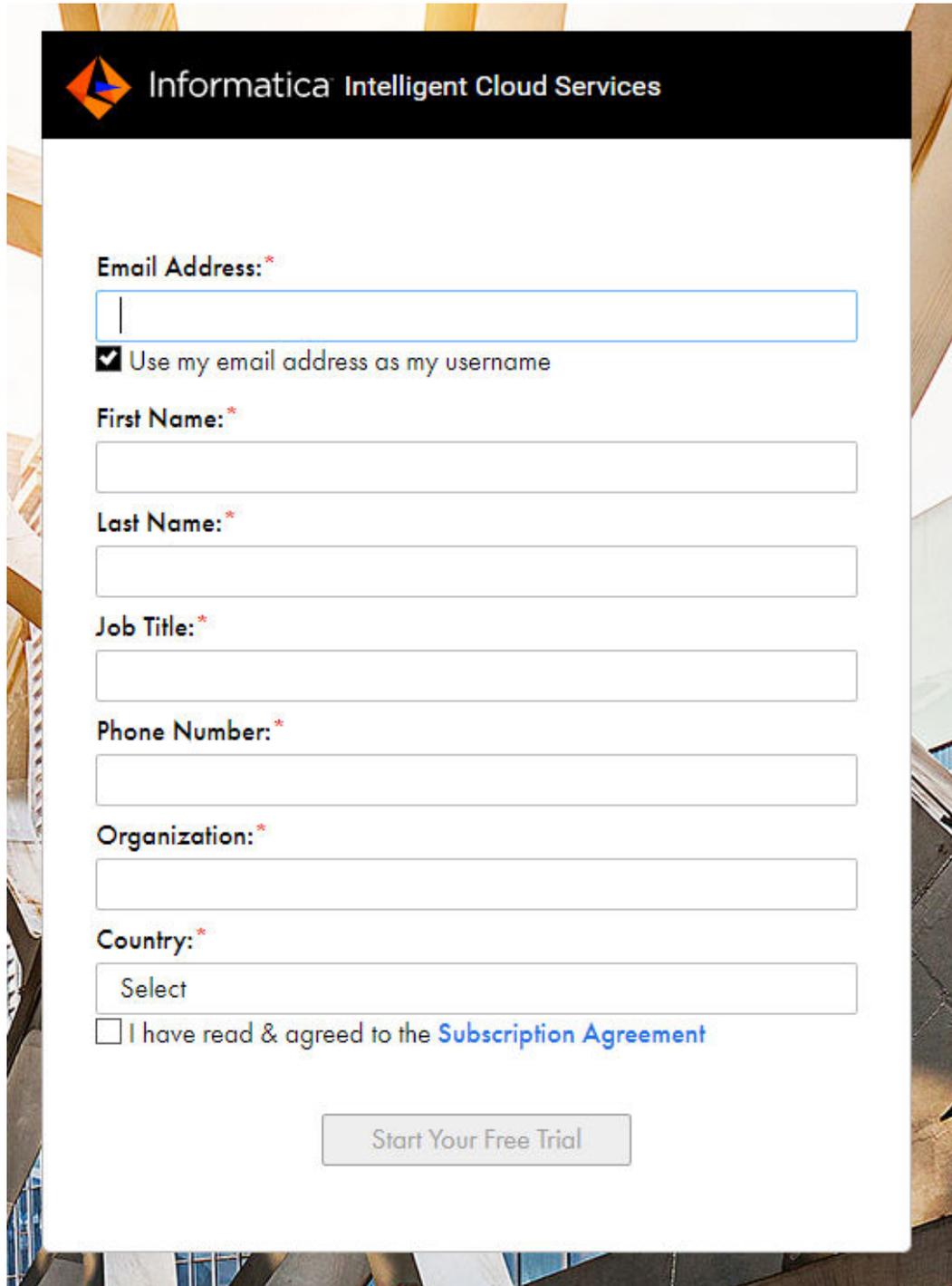


5. Click **Copy** to copy the token.

After you copy the token, you can paste it in the **Token** field on the **New Informatica Intelligent Cloud Services Secure Agent deployment** page in Google Cloud Platform.

Steps to register a new user with an Informatica Intelligent Cloud Services account

1. Go to <https://dm2p-us.informaticacloud.com/ma/register> and fill in the form, as shown in the following image:



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

- Email Address:** A text input field with a red asterisk indicating it is required.
- Use my email address as my username
- First Name:** A text input field with a red asterisk indicating it is required.
- Last Name:** A text input field with a red asterisk indicating it is required.
- Job Title:** A text input field with a red asterisk indicating it is required.
- Phone Number:** A text input field with a red asterisk indicating it is required.
- Organization:** A text input field with a red asterisk indicating it is required.
- Country:** A dropdown menu with "Select" as the current selection and a red asterisk indicating it is required.
- I have read & agreed to the [Subscription Agreement](#)

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

You will get a registration confirmation email that contains a link to create your password.

2. After you have created your password, log in to your account using the region of the POD you chose at the time of registration.

Troubleshooting

I encountered a deployment error related to APIs or permissions.

If you encounter an error related to API or permission, the deployment manager will clearly show those during deployment. Rectify those and try again.

The deployment timed out.

In rare cases, if the deployment doesn't receive a success signal within 30 minutes, it goes into a failed state. However, that doesn't mean that the Secure Agent didn't get created or added to IICS.

Log in into the VM using a public IP (if available) or private DNS from other VMs connected to the same network and check for logs.

The Informatica Secure Agent didn't get added in the IICS account.

Check the following logs for details:

- C:\agent_setup.log (Windows OS)
- /home/agent_setup.log (Linux OS)

If these logs are not present, check the individual VM logs listed on the VM detail page.

Author

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