

## Install and Configure Informatica Intelligent Cloud Services in the AWS Cloud Marketplace

## Abstract

This article describes how to install and set up the Secure Agent with an Amazon EC2 instance to use the Informatica Intelligent Cloud Services.

## Supported Versions

- Informatica Intelligent Cloud Services May 2023

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## Overview

The Secure Agent on an AWS EC2 instance lets you connect to your Informatica Intelligent Cloud Services (IICS) account to leverage your computing needs.

This solution lets you use as many Secure Agents as your license permits. There is no need to perform manual steps for installation. Provide your account details and add a new Secure Agent in your IICS account.

## Intended audience

This article is written for users who are familiar with Amazon Web Services (AWS) and Informatica Intelligent Cloud Services. Users should have a basic understanding of how identity and access work in AWS.

## Cost and licensing

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

## Installation Method

To install the Secure Agent, use the Marketplace deployment method.

## Network prerequisites

Before you can deploy into the AWS cloud, confirm the prerequisites for new and existing VPC deployments.

### New VPC deployment

- For the availability zone, ensure that selected availability zone has enough capacity to create a new subnet, route table, and internet gateway.
- Ensure that the VPC creation has not exceeded the supported limit.

### Existing VPC deployment

Ensure that the subnet you choose has internet access. (NAT gateway, Internet Gateway, AWS managed VPN or VPC Peer, etc.)

### EIP limit

Verify that you have enough EIP limit when you choose EnableEIP = Yes in the AWS cloud.

## User Permissions

The IAM user requires specific permissions to deploy Informatica Intelligent Cloud Services in the AWS cloud.

Configure the following policies at a minimum for the IAM user:

```
ec2:*Vpc*
ec2:*Subnet* ec2:*Gateway*
ec2:*Route* ec2:*Address*
ec2:*SecurityGroup*
ec2:*NetworkAcl*
ec2:RunInstances
ec2:StopInstances
ec2:StartInstances
ec2:TerminateInstances
ec2:Describe*
logs:CreateLogGroup
logs:CreateLogStream
logs:PutLogEvents
logs:DescribeLogStreams
```

## Deploying in the AWS Cloud with the Amazon Marketplace

When you deploy into the AWS cloud with the Amazon Marketplace, it automatically deploys the infrastructure that you require.

The deployment process is divided into these two steps:

- [“Step 1. Configure the deployment in Amazon Marketplace on Windows or UNIX” on page 5](#)
- [“Step 2. Configure the deployment with AWS CloudFormation” on page 6](#)

## Supported configurations

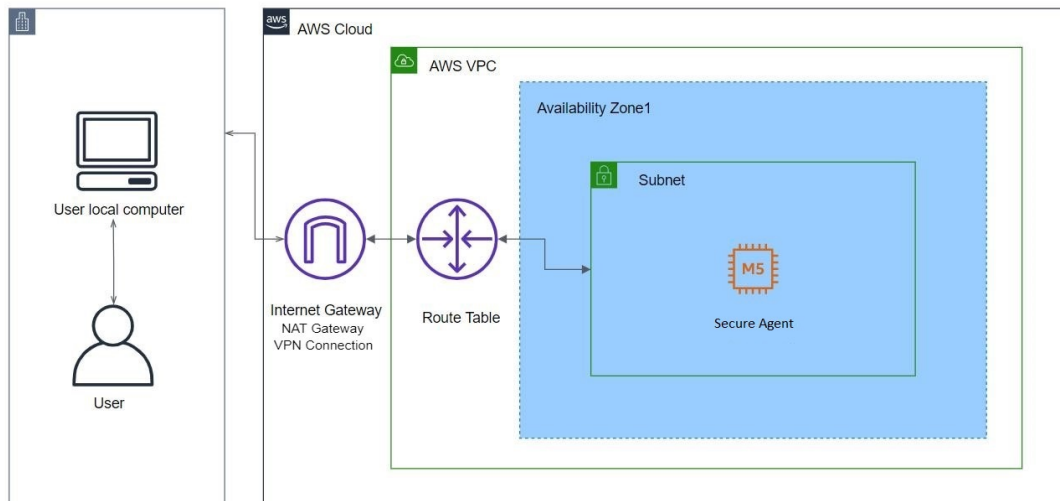
A deployment in the AWS cloud has the following configuration:

- Secure Agent
- Operating systems: Windows Server and Red Hat Enterprise Linux
- Provisioning time: Approximately 15 minutes.
- EC2 instance types: m5.large, m5.xlarge, m5.2xlarge, m5.4xlarge, etc.

**Note:** Ensure that you have permissions to deploy AWS infrastructure. For more information about the latest supported configurations, see the Informatica Intelligent Cloud Services listing in the AWS Marketplace.

## Architecture Diagram

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



## Register for an Informatica cloud trial account

You can register for a free 30 day cloud trial account with Informatica.

To register for a trial account, perform the following steps:

1. Visit [Informatica's Cloud Trial Sign Up](#) page and complete the form. You will receive a confirmation email.
2. Use the link in the confirmation email to create a password.

3. Log in to your account using the region of the pod that you chose at the time of registration:

Region	Login URL
USA	<a href="https://dm-us.informaticacloud.com/identity-service/home">https://dm-us.informaticacloud.com/identity-service/home</a>
Canada	<a href="https://dm-na.informaticacloud.com/identity-service/home">https://dm-na.informaticacloud.com/identity-service/home</a>
Europe	<a href="https://dm-em.informaticacloud.com/identity-service/home">https://dm-em.informaticacloud.com/identity-service/home</a>
United Kingdom	<a href="https://dm-uk.informaticacloud.com/identity-service/home">https://dm-uk.informaticacloud.com/identity-service/home</a>
Asia-Pacific	<a href="https://dm-ap.informaticacloud.com/identity-service/home">https://dm-ap.informaticacloud.com/identity-service/home</a>

## Generate an install token

An install token is required to deploy a Secure Agent in AWS. You can generate an install token more than once if necessary.

1. In Administrator, select **Runtime Environments**.
2. Click **Generate Install Token**.
3. Click **Copy** to copy the generated token to the clipboard.

After you copy the token, you will paste it in the **User Token** parameter within "Informatica Intelligent Cloud Services account details" when deploying to a new or existing VPC.

## Step 1. Configure the deployment in Amazon Marketplace on Windows or UNIX

You can configure Informatica Intelligent Cloud Services in Amazon Marketplace for Windows or UNIX as a Bring Your Own License (BYOL) listing.

1. Log in to the [Informatica Data Management as a Service for Amazon Web Services](#) page on the AWS Marketplace page.
2. Select the appropriate AWS region and fulfillment option from the Pricing Information section.
3. Click **Continue to Subscribe**. This displays the **Subscribe to this software** page.
4. Check the supported EC2 instance type and the pricing.
5. Click **Continue to Configure**. This displays the **Configure this software** page.
6. Select a fulfillment option and click **Continue to Launch**.
7. Review the version, region, and deployment options from the list.
8. Click **Launch** from the Launch pane. This displays the **CloudFormation** create stack page.

## Step 2. Configure the deployment with AWS CloudFormation

You can deploy Informatica Intelligent Cloud Services with AWS CloudFormation in a new or existing Virtual Private Cloud (VPC), or with domain expansion.

### Deploying into a new VPC

You can create an end-to-end deployment that builds a new VPC with public subnet, and then deploys Informatica Intelligent Cloud Services into that infrastructure.

Perform the following steps:

1. On the **Create stack** page, click **Next**. The **Specify stack details** page displays.
2. Enter a name for your stack.
3. Complete the parameters using the following tables:

#### Network configuration

Parameter	Default	Description
Availability Zones	requires input	List of availability zones to use for the subnet in the VPC. Note: The logical order is preserved and only one availability zone is used for this deployment.
VPC CIDR	10.0.0.0/16	CIDR block for the VPC.
Subnet CIDR	10.0.128.0/20	CIDR block for the public (DMZ) subnet located in Availability Zone 1.
Allowed Remote Access CIDR	requires input	Allowed CIDR block for external access to the Secure Agent.

#### Amazon EC2 configuration

Parameter	Default	Description
Key Pair Name	requires input	Name of an existing EC2 KeyPair to enable external access to the Secure Agent. Requires corresponding keypair files for SSH access to the server.
Instance Type	M5.xlarge	Instance type for the Secure Agent.
Enable Elastic IP Addressing	No	Assign elastic IP addresses to the instance.

### Informatica Intelligent Cloud Services account details

Parameter	Default	Description
Data Center Location	North-America	Region for the system. Choose the region as per your registered user.
IDMC User Name	requires input	User name of the Informatica account.
IDMC User Token	requires input	Install token required to deploy the Secure Agent. Paste the token that you generated in <a href="#">“Generate an install token” on page 5</a> . If you don't have an install token, you can generate another one.
Secure Agent Group Name		Name of the Secure Agent group to which the Secure Agent will join. If your account doesn't have the Secure Agent group specified here, the Secure Agent is added to an unnamed group. Leave this field empty to add the Secure Agent to its own group.

4. Click **Next**. The **Options** page is displayed.
5. Optionally, specify tags (key-value pairs) for resources in your stack.
6. If you want to view the logs on failure, set the stack failure option to **Preserve successfully provisioned resourced** in the Advanced section.
7. Click **Next**.
8. Review all your parameters and template settings in the Review section. Also check the cost and billing details.
9. Click **Submit** to deploy the stack. Amazon AWS displays the CloudFormation dashboard.
10. Monitor the status of the stack. The deployment is complete when the status is CREATE\_COMPLETE.
11. Use the **Resources** tab for the stack to view the created resources for the database and VM details. Use the **Events** tab to view log information. Use the **Parameters** tab to view parameters information.

### Deploying into an existing VPC

You can deploy Informatica Intelligent Cloud Services into an existing VPC.

Perform the following steps:

1. On the **Create stack** page, click **Next**. The **Specify stack details** page displays.
2. Enter a name for your stack or accept the default name.
3. Complete the parameters, using the following tables:

### Network configuration

Parameter	Default	Description
VPC ID	requires input	The VPC that you are deploying to.
Subnet ID	requires input	The publicly accessible subnet ID within the VPC for the Informatica instance.
Allowed Remote Access CIDR	requires input	Allowed CIDR block for external access to the Informatica VM.

### Amazon EC2 configuration

Parameter	Default	Description
Key Pair Name	requires input	Name of an existing EC2 KeyPair to enable external access to the Secure Agent. Requires corresponding keypair files for SSH access to the server.
Instance Type	M5.xlarge	Type of Instance to use.
Enable Elastic IP Addressing	No	Assign elastic IP addresses to the instance.

### Informatica Intelligent Cloud Services account details

Parameter	Default	Description
Data Center Location	North-America	Region as per the registered user.
IDMC User Name	requires input	User name of the Informatica account.
IDMC User Token	requires input	Install token required to deploy the Secure Agent. Paste the token that you generated in <a href="#">"Generate an install token" on page 5</a> . If you don't have an install token, you can generate another one.
Secure Agent Group Name		Name of the Secure Agent group to which the Secure Agent will join. If your account doesn't have the Secure Agent group specified here, the Secure Agent is added to an unnamed group. Leave this field empty to add the Secure Agent to its own group.

4. Click **Next**. The **Options** page is displayed.
5. Optionally, specify tags (key-value pairs) for resources in your stack.
6. If you want to view the logs on failure, set the stack failure option to **Preserve successfully provisioned resourced** in the Advanced section.
7. Click **Next**.



8. Review all your parameters and template settings in the Review section. Also check the cost and billing details.
9. Click **Submit** to deploy the stack. Amazon AWS displays the CloudFormation dashboard.
10. Monitor the status of the stack. The deployment is complete when the status is CREATE\_COMPLETE.
11. Use the **Resources** tab for the stack to view the created resources for the database and VM details. Use the **Events** tab to view log information. Use the **Parameters** tab to view parameters information.

## Creating a new Secure Agent group

Add your Secure Agents to a Secure Agent group. This group can then be used as a runtime environment when you need to access data on-premises or when you want to access data in a cloud computing services environment.

Secure Agent groups are ideal if you need to prevent the activities of one department from affecting another department, or if you want to separate tasks by environment.

For more information about Secure Agent groups, see *Runtime Environments* in the online help.

## Troubleshooting

### The Secure Agent didn't get added in the Informatica Intelligent Cloud Services account.

Check the following logs for details:

- Windows OS: C:\agent\_setup.log
- Linux OS: /opt/agent\_setup.log

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

## Author

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