

Creating an Inbound Connection Endpoint

Date published: 2021-04-06

Date modified: 2024-01-09



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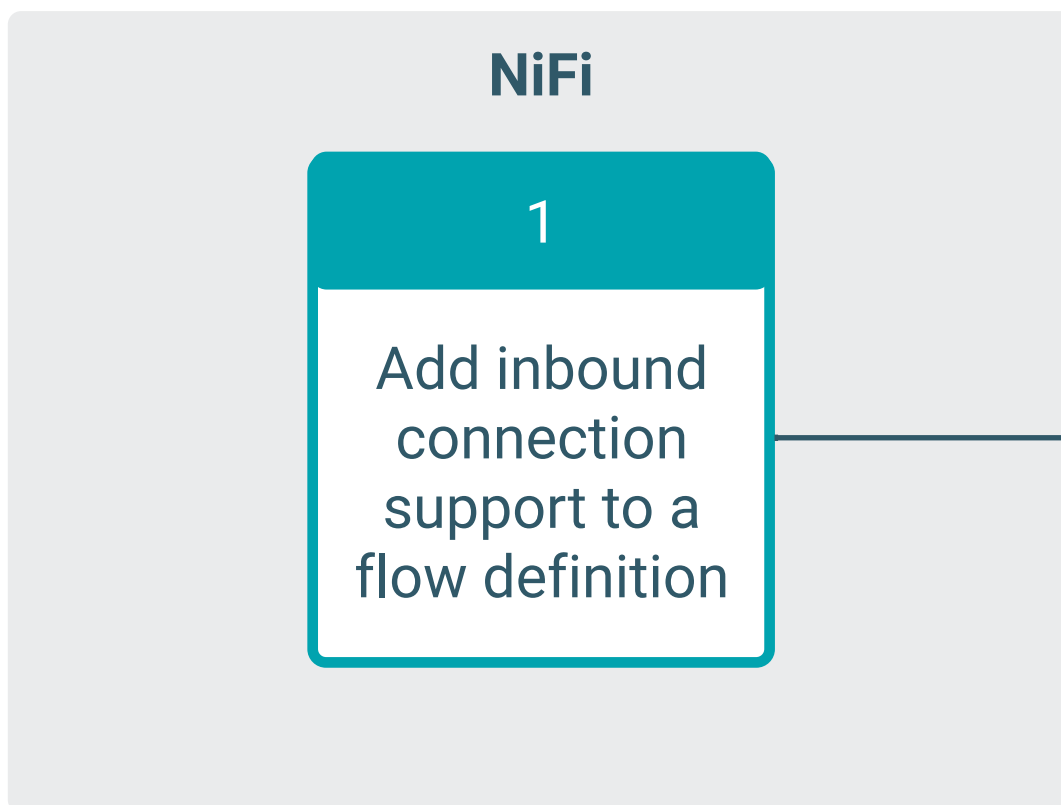
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Create an Inbound Connection Endpoint during flow deployment

During flow deployment, you can enable an endpoint that allows NiFi to listen to external data



sources.

About this task

You can create flow deployments with an Inbound Connection Endpoint during flow deployment, using the CDF Deployment wizard.



Note: Currently you cannot create flow deployments with Inbound Connection Endpoints using the CLI.

Before you begin

- A flow definition supporting inbound connections has been created and added to the Catalog.
- You have DFCatalogViewer role to view flow definitions in the Catalog.
- You have DFFlowAdmin right for the environment where you want to create the endpoint.

Procedure

1. During flow deployment, at the NiFi Configuration step, select **Inbound Connections Allow NiFi to Receive Data**.

An Endpoint Hostname, generated from the Deployment Name you provided at the Overview step is offered and port configuration options become available.

dataflow-azure / New Flow Deployment

NiFi Configuration

NiFi Runtime Version [Change Version](#)

CURRENT VERSION
Latest Version (1.16.0.2.3.4.0-33)

Autostart Behavior

☒ Automatically start flow upon successful deployment

Inbound Connections

☒ Allow NiFi to receive data [?](#)

Endpoint Hostname [Select Preexisting Endpoint](#)

listenhttpflow .inbound.dfx.dtefgqis.xcu2-8y8x.dev.cldr.work

[This endpoint is valid](#)

Listening Ports [Edit Ports](#)

Protocol ↑	Port
TCP ?	7001

Custom NAR Configuration

☐ This flow deployment uses custom NARs [?](#)

[Cancel](#) [← Previous](#) [Next →](#)

Overview

FLOW DEFINITION
ListenHTTP filter to Kafka v.1

ENVIRONMENT DEPLOYING TO
dataflow-azure

DEPLOYMENT NAME
ListenHTTP Flow

2. You can accept the generated hostname as is, or you can change the prefix. You can also click **Select Preexisting Endpoint** to select an available endpoint within your environment.

Endpoints are unavailable if they are currently used by another flow deployment.

3. Select Listening Ports.

Provide the protocol and port or ports where your flow will listen to incoming data. CDF automatically suggests ports based on listen processors detected in the flow definition. Custom Processors, if applicable, are not detected and must be added manually.

Using ports with mixed protocols (TCP and UDP) is not allowed. As long as the suggested ports use mixed protocols, you are not allowed to add new ports or to proceed to the next step in the Wizard.



Note: If you want your dataflow to use HTTP, select TCP protocol.

Edit Listening Ports



Protocol

Port ?

TCP

Specify a port

+ Add Port

Protocol	Port	
TCP ?	7001	-

Cancel

OK

4. Fill in Parameters.

If the listening port in your flow definition is parameterized instead of having a pre-defined value, you have to fill in the same listening port numbers you provided in the NiFi Configuration step. The listening ports you specified in the NiFi Configuration step are visible in the Overview pane.

5. Configure Sizing & Scaling, then click Next.

6. Add Key Performance Indicators, then click Next.

7. Review the information provided and click Deploy.

As part of the flow deployment, a Layer-4 Load Balancer (LB) is created to forward traffic to the flow deployment's NiFi cluster on the configured ports and protocols. DNS records are created for Inbound Connection Endpoint hostname to resolve to the Layer-4 LB.



Note: There is an initial delay for the cloud provider (AWS or Azure) to fully provision and start the LB resources, during which the flow deployment appears in the CDF monitoring dashboard as healthy, but it is not yet able to receive data from clients. The load balancer provisioning normally completes within 10 minutes of the flow deployment being finished, but can take up to three hours.

Related Information

[Deploying a flow definition](#)