

## Creating an Inbound Connection Endpoint

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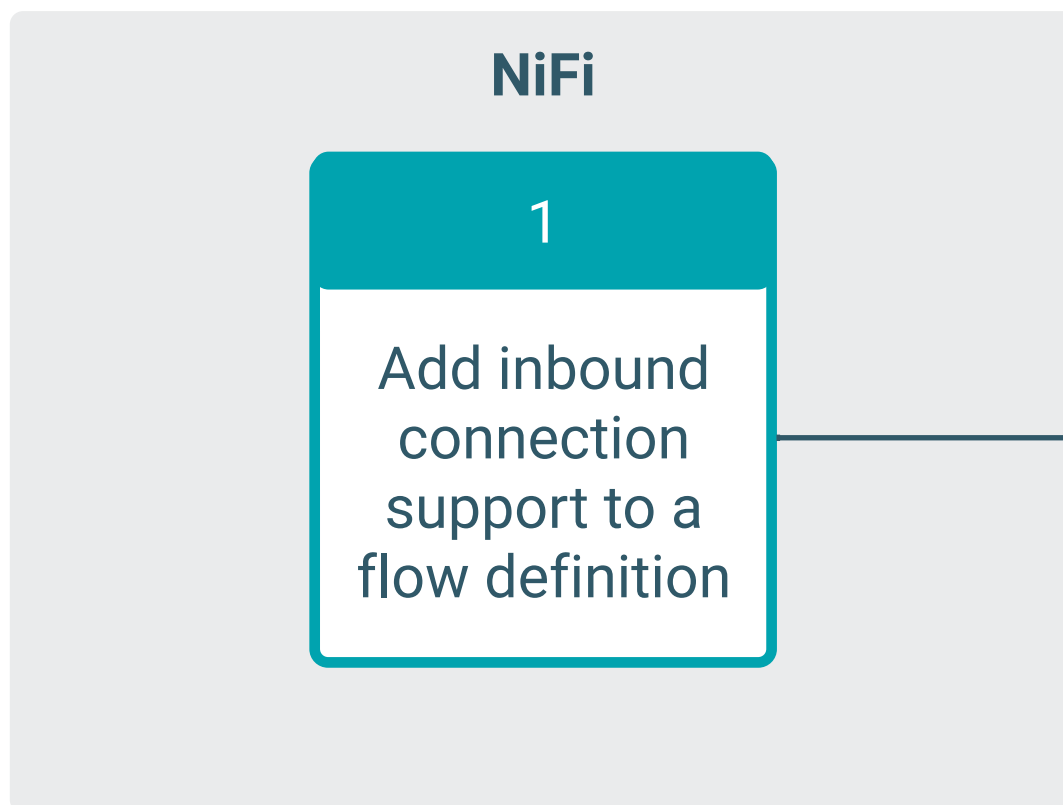
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## Create an Inbound Connection Endpoint during flow deployment

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 Cloudera Data Flow 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 <a href="#">?</a>	7001

**Custom NAR Configuration**

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

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

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. Cloudera Data Flow 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. Specify Trusted IP Addresses.

Specify a comma-separated list of trusted CIDRs or IP ranges. To allow all traffic, select Allow all traffic.



**Important:** Selecting Allow all traffic keeps your inbound connection open to all incoming traffic. This can expose your connection to potential security risks.

### Results

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 the 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 Cloudera Data Flow 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.

### What to do next

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.

### Related Information

[Deploying a flow definition](#)