Apache NiFi 3

Navigating a Data Flow

Date of Publish: 2020-12-15



https://docs.cloudera.com/

Contents

Navigating within a DataFlow	3
Component Linking	
Component Alignment	
Align Vertically	
Align Horizontally	
8	

Navigating within a DataFlow

NiFi provides various mechanisms for getting around a dataflow. The NiFi User Interface section describes various ways to navigate around the NiFi canvas; however, once a flow exists on the canvas, there are additional ways to get from one component to another. When multiple Process Groups exist in a flow, breadcrumbs appear at the bottom of the screen, providing a way to navigate between them. In addition, to enter a Process Group that is currently visible on the canvas, simply double-click it, thereby "drilling down" into it. Connections also provide a way to jump from one location to another within the flow. Right-click on a connection and select "Go to source" or "Go to destination" in order to jump to one end of the connection or another. This can be very useful in large, complex dataflows, where the connection lines may be long and span large areas of the canvas. Finally, all components provide the ability to jump forward or backward within the flow. Right-click any component (e.g., a processor, process group, port, etc.) and select either "Upstream connections" or "Downstream connections". A dialog window will open, showing the available upstream or downstream connections that the user may jump to. This can be especially useful when trying to follow a dataflow in a backward direction. It is typically easy to follow the path of a dataflow in the other direction.

Component Linking

A hyperlink can be used to navigate directly to a component on the NiFi canvas. This is especially useful when Multi-Tenant Authorization is configured. For example, a URL can be given to a user to direct them to the specific process group to which they have privileges.

The default URL for a NiFI instance is http://<hostname>:8080/nifi, which points to the root process group. When a component is selected on the canvas, the URL is updated with the component's process group id and component id in the form http://<hostname>:8080/nifi/?processGroupId=<UUID>&componentIds=<UUIDs>;. In the following screenshot, the GenerateFlowFile processor in the process group PG1 is the selected component:

🔍 🔍 🍖 Nifi 🛛 🗙					Θ
\leftarrow \rightarrow C (i) localhost:8080/nifi/?processGro	upId=b14d379f-015b-1000	-d77d-df66df9ade09&cor	mponentIds=b14d68	30e-015b-1000-fd02-ccb29	cc30aca 🕁 :
nifi 🖸 🖓 🖙 🏻		- <i> </i>			≡
👬 0 🗮 0 / 0 bytes 💿 0	⊘ 0 ▶ 0	4 \Lambda 0	۶ 0	C 10:33:02 EDT	Q 🛛
🙆 Navigate 📃					
Q Q []					
	Generate/IoWFile Generate/IoWFile 12.0 orgapache.mfnfi-standar In 0 (0 bytes) Read/Write 0 bytes / 0 bytes Out 0 (0 bytes) Tasks/Time 0 / 00:00:00.000	d-nar 5 min 5 min 5 min 5 min			
🖒 Operate 📃	Name	uccess			
GenerateFlowFile		<u> </u>			
Processor b14d680e-015b-1000-fd02-ccb29cc30aca	0	LogAttribute LogAttribute 1.2.0-SNAPSHOT org.apache.nifi - nifi-standard-nar			
♦ 5 × ► ■	In	0 (0 bytes)	5 min 5 min		
	Read/ Out	Write 0 bytes / 0 bytes 0 (0 bytes)			
省 🗈 🔯 🥒 🛍 DELETE		/Time 0 / 00:00:00.000	5 min 5 min		
NiFi Flow » PG1					



Note: Linking to multiple components on the canvas is supported, with the restriction that the length of the URL cannot exceed a 2000 character limit.

Component Alignment

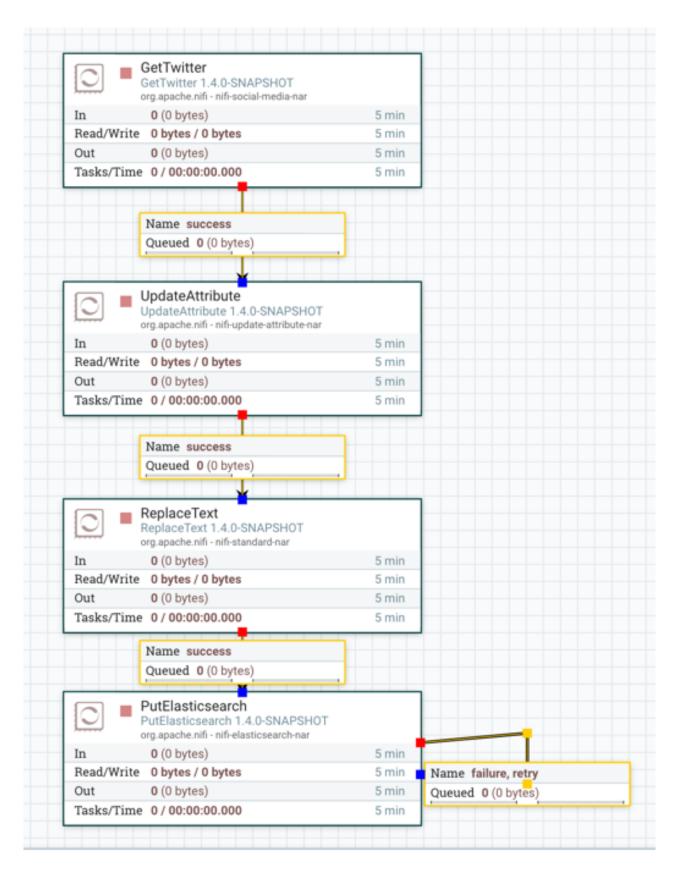
Components on the NiFi canvas can be aligned to more precisely arrange your dataflow. To do this, first select all the components you want to align. Then right-click to see the context menu and select "Align vertically" or "Align horizontally" depending on your desired result.

Align Vertically

Here is an example of aligning components vertically on your canvas. With all components selected/highlighted, right-click:

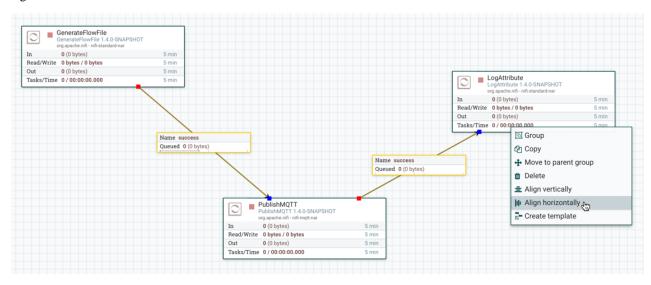
	GetTwitter					
	GetTwitter 1.4.0-SNAPSH org.apache.nifi - nifi-social-mer					
	In 0 (0 bytes)	5 min				
	Read/Write 0 bytes / 0 bytes	5 min				
	Out 0 (0 bytes)	5 min				
	Tasks/Time 0/00:00:00.000	C Group				
		Copy				
	Name success	📋 Delete				
	Queued 0 (0 bytes)					
	<u> </u>					
UpdateAttri	oute	III Align horizontally				
UpdateAttribu	te 1.4.0-SNAPSHOT	- Create template				
-	nifi-update-attribute-nar 5 min					
In 0 (0 bytes) Read/Write 0 bytes / 0 b						
Out 0 (0 bytes)	5 min					
Tasks/Time 0 / 00:00:00						
	ReplaceText replaceTe					
	Read/Write 0 bytes / 0 bytes Out 0 (0 bytes) Tacks/Time 0 / 00:00:00:000	5 min				
		5 min 5 min				
	Out 0 (0 bytes)	5 min Name success				
	Out 0 (0 bytes)	5 min				
	Out 0 (0 bytes)	5 min Name success				
	Out 0 (0 bytes)	5 min Name success Queued 0 (0 bytes) PutElasticsearch PutElasticsearch 1.4.0-SNAPSHOT	5 min			
	Out 0 (0 bytes)	5 min Name success Queued 0 (0 bytes) PutElasticsearch PutElasticsearch 1.4.0-SNAPSHOT org.apache.nlirnlirelasticsearch nar	5 min 5 min Name failure, retry			
	Out 0 (0 bytes)	5 min Name success Queued 0 (0 bytes) PutElasticsearch 1.4.0-SNAPSHOT org apachen fin-finitelasticsearch-nar In 0 (0 bytes)				

and select "Align vertically" to achieve these results:



Align Horizontally

5



Here is an example of aligning components horizontally on your canvas. With all components selected/highlighted, right-click:

and select "Align horizontally" to achieve these results:

	GenerateFlowFile GenerateFlowFile 1.4.0-SNAPSHOT org.apache.nifi - nifi-standard-nar		0	PublishMQTT PublishMQTT 1.4.0-SNAPSHOT org.apache.nifi - nifi-mqtt-nar		0	LogAttribute LogAttribute 1.4.0-SNAPSHOT org.apache.nifi - nifi-standard-nar	
In	0 (0 bytes)	Name success		0 (0 bytes)	5 n Name success		0 (0 bytes)	5 min
Read/Write	0 bytes / 0 bytes	Queued 0 (0 bytes)		ite 0 bytes / 0 bytes	5 n Queued 0 (0 bytes)	d/Write	e 0 bytes / 0 bytes	5 min
Out	0 (0 bytes)	5 min	Out	0 (0 bytes)	5 min	Out	0 (0 bytes)	5 min
Tasks/Time	0 / 00:00:00.000	5 min	Tasks/T	ime 0/00:00:00.000	5 min	Tasks/Tim	e 0/00:00:00.000	5 min