Apache NiFi Registry User Guide

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Introduction

Apache NiFi Registry-a subproject of Apache NiFi-is a complementary application that provides a central location for storage and management of shared resources across one or more instances of NiFi and/or MiNiFi.

The first implementation of the Registry supports versioned flows. Process group level dataflows created in NiFi can be placed under version control and stored in a registry. The registry organizes where flows are stored and manages the permissions to access, create, modify or delete them.

Once NiFi Registry is installed, use a supported web browser to view the UI.

Browser Support

Browser	Version
Chrome	Current and Current - 1
FireFox	Current and Current - 1
Safari	Current and Current - 1

Current and Current - 1 indicates that the UI is supported in the current stable release of that browser and the preceding one. For instance, if the current stable release is 62.X then the officially supported versions will be 62.X and 61.X.

For Safari, which releases major versions much less frequently, Current and Current - 1 simply represent the two latest releases.

The supported browser versions are driven by the capabilities the UI employs and the dependencies it uses. UI features will be developed and tested against the supported browsers. Any problem using a supported browser should be reported to Apache NiFi.

Unsupported Browsers

While the UI may run successfully in unsupported browsers, it is not actively tested against them. Additionally, the UI is designed as a desktop experience and is not currently supported in mobile browsers.

Viewing the UI in Variably Sized Browsers

In most environments, all of the UI is visible in your browser. However, the UI has a responsive design that allows you to scroll through screens as needed, in smaller sized browsers or tablet environments.



Note: The minimum recommended screen size is 1080px X 445px.

Terminology

Flow: A process group level NiFi dataflow that has been placed under version control and saved to the Registry.

Bundle: A binary artifact containing one or more extensions that can be run in NiFi or MiNiFi.

Bucket: A container that stores and organizes versioned items, such as flows and bundles.

Policy: Defines a user or group's ability to perform a given action.

NiFi Registry User Interface

The NiFi Registry UI displays the shared resources available and provides mechanisms for creating and administering users/groups, buckets and policies.

When the application is started, the user is able to navigate to the UI by going to the default address of http://<host name>:18080/nifi-registry in a web browser. There are no permissions configured by default, so anyone is able to view and modify the flows and buckets.

When an administrator navigates to the UI for the first time, the registry is empty as there are no flow resources available to share yet:

• • • F NiFi Registry ×		е
\leftrightarrow \rightarrow C () localhost:18080/nifi-registry/explorer/grid-list		☆ :
NiFi Registry / All -		anonymous 🕜 🔎
↑		Help ✓ Sort by: Name (a - z) ▼
Buckets Menu	No results match this query.	Settings

The Buckets menu is available at the top left of the screen. It allows the user to display flows based on which bucket they are contained in. On the top right of the screen is the Settings button (



) which accesses functionality for managing users, groups, buckets and policies. Next to the Settings button is the Help button (



) which accesses the NiFi Registry Documentation.

Logging In

If NiFi Registry is configured to run securely, users will have to be granted permissions to buckets by an administrator.

Log In		
Username		
Password		
	CLEAR	LOG IN

If the user is logging in with their username/password they will be presented with a screen to do so.

Manage Flows

View a Flow

Flows in all buckets are listed in the main window of the UI by default. If the registry is secured, only the flows in the buckets that the user has access to are listed.

NiFi Registry / All 👻		anonymous 🝞 🎤
Sort by: Name (a - z) ▼		MPORT NEW FLOW
Flow 1 - Bucket 1 Flow	VERSIONS 1	~
Flow 2 - Bucket 2 Flow	VERSIONS 2	~
Flow 3 - Bucket 3 Flow	VERSIONS 3	~

To see the flows in a particular bucket, select that bucket from the drop-down menu at the top left of the UI.

NiFi Registry / All All buckets		anonymous 🝞 📌
Sort by: Name (a - z Bucket 1)		IMPORT NEW FLOW
Flow 1 - Bucket 3 Flow	VERSIONS 1	~
Flow 2 - Bucket 2 Flow	VERSIONS 2	~
Flow 3 - Bucket 3 Flow	VERSIONS 3	~

Click on a flow to see its Bucket Identifier, Flow Identifier, Description and Change Log:

NiFi Registry / All 👻		anonymous 🕜 💡
Sort by: Name (a - z) 💌		MPORT NEW FLOW
Flow 1 - Bucket 1 Flow	VERSIONS 1	~
Flow 2 - Bucket 2 Flow	VERSIONS 2	^
BUCKET IDENTIFIER CHANGE LOG CHANGE LOG		ACTIONS -
FLOW IDENTIFIER 762e98f4-30c4-4eca-932b-bb6e7		
762e98f4-30c4-4eca-932b-bb6e7 Add processors Oct-19-2021 at 4:14 PM DESCRIPTION		
Description 2 Version 1 - an hour ago by anonymous		
Flow 3 - Bucket 3 Flow	VERSIONS 3	~

The Change Log includes all versions that were saved for a flow. Clicking on the version reveals details about when the version was saved, which user committed the save, and any comments entered by the user.

Sorting & Filtering Flows

Flows can be sorted alphabetically by Name (ascending or descending), by Update (newest or oldest) or by Type (ascending or descending) using the Sort By drop-down.

NiFi Registry / All 👻	and	onymous 휭 🍃	¢
Sort by: Name (a - z) ▼	IMPORT N	IEW FLOW	
Name (z - a) کی Flo Oldest (update) Flo Type (z - a)	VERSIONS 1	~	
Flow 2 - Bucket 2 Flow	VERSIONS 2	~	
Flow 3 - Bucket 3 Flow	VERSIONS 3	~	

The flow list can be filtered by:

- flow name
- flow description
- flow ID

- bucket name
- bucket ID
- type

Here is an example filtering by flow name:

NiFi Registry / All 👻		anonymous 🝞 🎤
Sort by: Name (a - z) 💌	Flow 2	MPORT NEW FLOW
Flow 2 - Bucket 2 Flow	VERSIONS 2	~

Import a Flow

To import a flow into the registry:

1. Click on the "Import New Flow" button. A bucket must exist for this button to be visible.

NiFi Registry / All 👻		anonymous 💡 🎤
Sort by: Name (a - z) 🔻		
Flow 1 - Bucket 1 Flow	VERSIONS 1	~
Flow 2 - Bucket 2 Flow	VERSIONS 2	~
Flow 3 - Bucket 3 Flow	VERSIONS 3	~

- 2. Enter a unique flow name and a flow description if desired.
- **3.** Select the destination bucket.

4. Drop or select a flow definition file.

Flow 1 - Bucket 1 Flow	Import New Flow	VEDCIONIC	~
Flow 2 - Bucket 2 Flow	Flow Name	v.1	~
Flow 3 - Bucket 3 Flow	Flow Description		~
	Bucket		
	Bucket 4 Flow Definition flow-4-version-1	Looks good! 🥝	

5. Select "Import".

Import New Version of a Flow

To import a new version of a flow:

- **1.** Click on the flow to see its details.
- 2. Select the "Actions" drop-down and click the "Import new flow" menu option.

NiFi Registry / All 👻		anonymous 🕜 🎤
Sort by: Name (a - z) ▼		MPORT NEW FLOW
Flow 1 - Bucket 1 Flow	VERSIONS 1	^
BUCKET IDENTIFIER 35f3e6d1-f2e8-47b2-8fa9-b4a85 FLOW IDENTIFIER 44947114-bcf7-499c-abec-ffd93c DESCRIPTION No description specified		ACTIONS - Import new version Export version Delete flow

3. Drop or select a flow definition file.

Flow 1 - Bucket 1 Flow		VERSIONS 1	^
BUCKET IDENTIFIER	Import New Version	×	ACTIONS -
35f3e6d1-f2e8-47b2-8fa9-b FLOW IDENTIFIER	Flow Name	v.2	
44947114-bcf7-499c-abec-	Flow Definition	Looks good! 🕑	
DESCRIPTION No description specified	Version Comments	- SELECT FILE	
Flow 2 - Bucket 2 Flow		CANCEL	~
Flow 3 - Bucket 3 Flow		CANCEL IMPORT	~

4. Select "Import".

Export a Flow Version

To export a version of a flow:

- **1.** Click on the flow to see its details.
- 2. Select the "Actions" drop-down and click the "Export version" menu option.

NiFi Registry / All 👻			anonymous 🝞 🎤
Sort by: Name (a - z) ▼			MPORT NEW FLOW
Flow 1 - Bucket 1 Flow		VERSIONS 2	~
35f3e6d1-f2e8-47b2-8fa9-b4a85	ANGE LOG C Version 2 - a few seconds ago by anonymous		ACTIONS - Import new version Export version
FLOW IDENTIFIER 44947114-bcf7-499c-abec-ffd93c DESCRIPTION	No comments specified Oct-19-2021 at 5:56 PM		
No description specified	Version 1 - 6 hours ago by anonymous		

3. Choose the version of the flow to export. By default, the latest version is selected.

Flow 1 - Bucket 1 Flow		VERSIONS 2	^
BUCKET IDENTIFIER CHA 35f3e6d1-f2e8-47b2-8fa9-b4a85	NGE LOG 🖸		ACTIONS -
FLOW IDENTIFIER 44947114-bcf7-499c-abec-ffd93c DESCRIPTION No description specified	Export Version Choose Version Latest (Version 2)		
Flow 2 - Bucket 2 Flow		VERSIONS 2	~
Flow 3 - Bucket 3 Flow		VERSIONS 3	~

4. Select "Export".

Delete a Flow

To delete a flow from the registry:

1. Click on the flow to see its details.

2. Select the "Actions" drop-down and click the "Delete flow" menu option.

NiFi Registry / All 👻		anonymous 🝞 🌾
Sort by: Name (a - z) ▼		IMPORT NEW FLOW
Flow 1 - Bucket 1 Flow	VERSIONS 1	~
BUCKET IDENTIFIER CHANGE LOG C 35f3e6d1-f2e8-47b2-8fa9-b4a85 Version 1 - 5 hours ago by anonymous FLOW IDENTIFIER 44947114-bcf7-499c-abec-ffd93c No comments specified Oct-19-2021 at 11:46 AM DESCRIPTION No description specified		ACTIONS ▼ Import new version Export version Delete flow
Flow 2 - Bucket 2 Flow	VERSIONS 2	~
Flow 3 - Bucket 3 Flow	VERSIONS 3	~

3. Select "Delete" to confirm.

Flow 1 - Bucket 1 Flow	VERSIONS 1	^
35f3e6d1-f2e8-47b2-8fa9-b4a85	LOG 😂	ACTIONS -
FLOW IDENTIFIER 44947114-bcf7-499c-abec-ffd93c No Oc DESCRIPTION No description specified	Delete Flow	
Flow 2 - Bucket 2 Flow	VERSIONS 2	~
Flow 3 - Bucket 3 Flow	VERSIONS 3	~



Warning: It is possible to delete a flow that is actively being used in NiFi.

Manage Buckets

To manage buckets, enter the Administration section of the Registry by clicking the Settings button (



) on the top right of the UI. The Buckets window appears by default.

Sorting & Filtering Buckets

Buckets can be sorted alphabetically by Name (ascending or descending) using the up/down arrows.

NiFi Registry / Administration	Userl 😗 🗙
BUCKETS USERS	
Buckets (24)	
Bucket Name	▼ NEW BUCKET ACTIONS ▼
Bucket 1	/ 🖬 🛛
Bucket 2	e 🖬 🗉 👘
Bucket 3	e 🗇 🗇 🗆
Bucket 4	er 🛍 🗆
Bucket 5	er 🛍 🗆
Bucket 6	A 🗇 🗆

The buckets listed can be filtered by:

- bucket name
- bucket description
- bucket ID

Here is an example filtering by bucket name:

NiFi Registry / Administration			Userl 😗 🗙
BUCKETS USERS			
Buckets (24)			
Bucket Name 🕶	Bucket 4 🔇	NEW BUCKET ACTION:	s 🗸
Bucket 4		1 🗊	•

Create a Bucket

1. Select the "New Bucket" button.

	NiFi Registry / Administration		User1 🕜 🗙
-	BUCKETS USERS		
	Buckets (24)		NS +
	Bucket Name 🔺		0
	Bucket 1	Ø Û	•
	Bucket 2	Ø Û	
	Bucket 3	I Û	0
	Bucket 4	I Û	0
	Bucket 5	/ Û	•
	Bucket 6	<i>₽</i> Û	•

2. Enter the desired bucket name and select the "Create" button.

New Bucket		×
Bucket Name		
Bucket 0		
 Make publicly visible ⑦ Keep this dialog open afte 	r creating bucke	t
	CANCEL	



0

Note: Check "Make publicly available" to allow read access to items in the bucket by unauthenticated users. This will override any specific bucket policies granting read access.

Note: To quickly create multiple buckets, check "Keep this dialog open after creating bucket".

Delete a Bucket

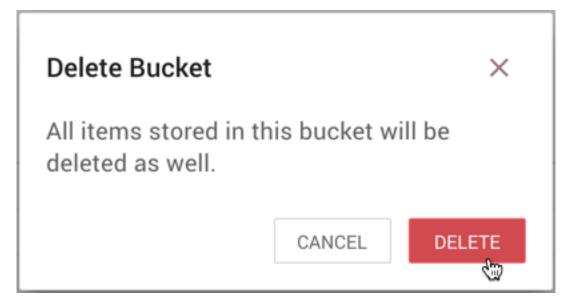
1. Select the Delete button (



) in the row of the bucket.

	NiFi Registry / Administration	User1 😯 🗙
-	BUCKETS USERS	
	Buckets (25)	NEW BUCKET ACTIONS -
	Bucket Name 🔺	
	Bucket 0	/ 🍋 🗆
	Bucket 1	Delete Bucket
	Bucket 2	2 û o
	Bucket 3	<i>₽</i> 🛍 □
	Bucket 4	<i>₽</i> 🛍 □
	Bucket 5	1 □

2. From the Delete Bucket dialog, select "Delete".



Delete Multiple Buckets

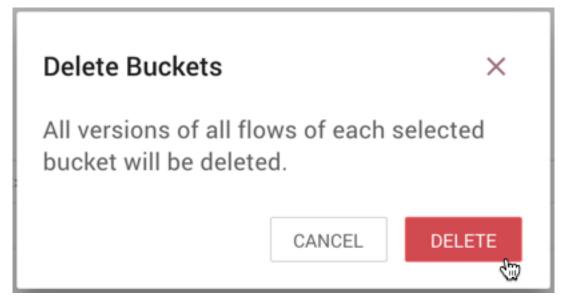
1. Select the checkboxes in the rows of the desired buckets to delete.

NiFi Registry / Administration	Userl 💡 🗙
BUCKETS USERS	
Buckets (24)	
	NEW BUCKET ACTIONS -
Bucket Name 🔺	
Bucket 1	/ 🖬 🗆
Bucket 2	∕ û □
Bucket 3	/ 🖬 🗆
Bucket 4	× û 🖂
Bucket 5	Ø 🛈 🖂
Bucket 6	A 🗊 🔤

2. Select the "Actions" drop-down and click the "Delete" option.

	NiFi Registry / Administration	Useri 💡 🗙
-	BUCKETS USERS	
	Buckets (24)	
		NEW BUCKET ACTIONS -
	Bucket Name 🔺	Delete
	Bucket 1	/ 🖬 💿
	Bucket 2	/ 0 .
	Bucket 3	/ 0 0
	Bucket 4	e û 🛛
	Bucket 5	e û 12
	Bucket 6	e û 🛛

3. From the Delete Buckets dialog, select "Delete".



Edit a Bucket Name

1. Select the Manage button (



) in the row of the bucket.

NiF	i Registry / Administration	User1 😯
BUCKETS	USERS	
Bucke	ets (25)	
		▼ NEW BUCKET ACTIONS →
Buc	ket Name 🔺	
Buc	cket 0	4 1
Buc	cket 1	Manage Bucket
Buc	sket 2	/ 🛍 🗆
Buc	sket 3	2 □ □
Buc	sket 4	e 🗊 🗆
-	cket 5	1 🖬 🗆

2. Enter a new name for the bucket and select the "Save" button.

NiFi Registry / Administration	Bucket 0 ×
BUCKETS USERS	Identity/Bucket Name Bucket 1234 SAVE
Buckets (9)	Make publicly visible (2)
	Bundle Settings
Bucket Name 🔺	□ Allow bundle overwrite ⑦
Bucket 0	
Bucket 1	Policies (0) NEW POLICY
Bucket 2	Display Name A Permissions
Bucket 3	No results to display.
Bucket 4	ito recurso to diopidy.
	CLOSE

Make a Bucket Publicly Visible

To allow read access to items in a bucket by unauthenticated users, select the "Make publicly visible" checkbox.

NiFi Registry / Administration	Bucket 0 ×
BUCKETS USERS	Identity/Bucket Name Bucket 0 SAVE
Buckets (10)	Make publicly visible ③
	Bundle Settings
Bucket Name 🛥	Allow bundle overwrite
Bucket 0	
Bucket 1	Policies (0) NEW POLICY
Bucket 2	Display Name 🔺 Permissions
Bucket 3	
Bucket 4	No results to display.
December 2	
	CLOSE

This setting will override any specific policies granting read access to the bucket.

Allow Bundles in a Bucket to be Overwritten

To allow released bundles in a bucket to be overwritten, select the "Allow bundle overwrite" checkbox.

NiFi Registry / Administration	Bucket 1 ×
BUCKETS USERS	Identity/Bucket Name Bucket 1 SAVE
Buckets (10)	Make publicly visible 3
Bucket Name *	Bundle Settings
Bucket 0 Bucket 1	Policies (0) NEW POLICY
Bucket 2 Bucket 3	Display Name ▲ Permissions No results to display.
Bucket 4	to results to display.
	CLOSE

Currently, the only supported bundle type is a https://nifi.apache.org/docs/nifi-docs/html/developer-guide.html#nars. By default, buckets do not allow the re-release of released NARs. This setting explicitly allows the same version of a NAR to be uploaded to a bucket.

For more information on bundles, see the Manage Bundles on page 42 section.

Bucket Policies

Bucket policies define user privileges on buckets/flows in the Registry and in NiFi. The available permissions are:

- All In the Registry, the assigned user is able to view and delete flows in the bucket. In NiFi, the selected user is able to import flows from the bucket and commit changes to flows in the bucket.
- Read In the Registry, the assigned user is able to view flows in the bucket. In NiFi, the selected user is able to import flows from the bucket.
- Write In NiFi, the assigned user is able to commit changes to flows in the bucket.
- Delete In the Registry, the assigned user is able to delete flows in the bucket.



Note: Users would typically have Read permissions at a minimum. A user with Write permission would not commit changes to a flow if they were not able to import it initially. A user with Delete permission would not delete a flow if they could not view it.



Note: If a user has a bucket policy and the group that the user is in also has a policy, all policies are used to determine access. For example, assume User1 is in Group1, User1 has READ privileges on Bucket1 and Group1 has READ privileges on Bucket2. In this scenario, User1 will have READ privileges on both Bucket1 and Bucket2.

Create a Bucket Policy

1. Select the Manage button (



) in the row of the bucket.

2. Select the "New Policy" button.

NiFi Registry / Administration	Bucket 7 ×
BUCKETS USERS	Identity/Bucket Name Bucket 7 SAVE
Buckets (10)	Make publicly visible (?)
Bucket Name +	Bundle Settings Image: Allow bundle overwrite (?)
Bucket 3 Bucket 4	Policies (0) NEW POLICY
Bucket 5 Bucket 6	No results to display.
Bucket 7	
	CLOSE

3. Select a user, check the desired permissions and select the "Apply" button:

Display Name 🔺	
USEIZ	
User3	
User4	
User5	•
User6	
User7	
User8	•
User9	0
🛛 All 🛛 Read 🗳 Write 🗹 Dele	te

4. The policy is added to the bucket:

NiFi Registry / Administr	ation	Bucket 7			×
BUCKETS USERS		Identity/Bucket Name Bucket 7		SAV	/E
Buckets (10)		Make publicly visible			
		Bundle Settings			
Bucket Name 🔺		Allow bundle overwrite	0		
Bucket 3		Policies (1)	ſ	NEW POL	ICY
Bucket 4		Display Name 🔺	Permissions		
Bucket 5		User7	read, write, delete		'n
Bucket 6				, i i	_
Bucket 7		About			
public_bucket		BUCKET IDENTIFIER a9698907-bb61-4dc9-8f0e-	9329353b5d1c		
				CLOSI	E

Delete a Bucket Policy

1. Select the Manage button (



) in the row of the bucket.

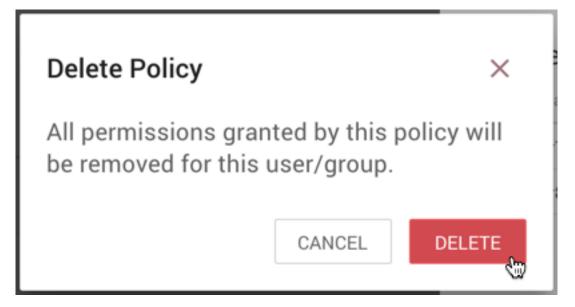
2. Select the Delete button (



) in the row of the policy.

NiFi Registry / Administration	Bucket 7		×
BUCKETS USERS	Identity/Bucket Name Bucket 7		SAVE
Buckets (10)	□ Make publicly visible ⑦		
	Bundle Settings		
Bucket Name 🔺	Allow bundle overwrite (D	
Bucket 2		Г	
Bucket 3	Policies (2)	L	NEW POLICY
Bucket 4	Display Name 🔺	Permissions	
Bucket 5	User7	read, write, delete	Ø 🗓
Bucket 6	User8	read, write	<i>*</i> i
Bucket 7	About	'Remove user poli	icies from this bucket'
public_bucket	BUCKET IDENTIFIER a9698907-bb61-4dc9-8f0e-9	9329353b5d1c	
			CLOSE

3. From the Delete Policy dialog, select "Delete".



Manage Users & Groups

To manage users/groups, enter the Administration section of the Registry by clicking the Settings button (



) on the top right of the UI. Select Users from the top menu to open the Users window.

Sorting & Filtering Users/Groups

Users/groups can be sorted alphabetically by Name (ascending or descending) using the up/down arrows.

NiFi Registry / Administration	User1 💡
BUCKETS USERS	
Authorized Users (55)	
	ADD USER ACTIONS -
Display Name 🖊	0
User1	✓ û □
User2	∕ û □
User3	∕ û □
User4	/ 🗈 🛛 🕴
User5	2 û □
User6	Ø 🛍 🗆

The Users/groups listed can be filtered by:

- user name
- user ID
- group name
- group ID

Here is an example of filtering by user name:

BUCKETS USERS Authorized Users (55)	•	NiFi Registry / Administration				User1 💡
User4 😵 🔽 ADD USER ACTIONS 🗸		BUCKETS USERS				
Display Name A	ſ	Authorized Users (55)				
			User4 🙁	٢	ADD USER	ACTIONS 👻
		Display Name 🔺				•
User4 de la companya de la company		User4				e 🖞 🗇 🖓
	_					

Add a User

1. Select the "Add User" button.

NiFi F	Registry / Administration			Use	r1 🕜
BUCKETS	USERS				
Authori	zed Users (55)				
	ADD USER	AC	TIOI	NS 🔻	
Display	Name A				
User1		Can b	Û		
User2		GAR	Û		
User3		GAR	Û		
User4		GAR	Û		0
User5		Can't	Û		
User6			Û		

2. Enter the desired username or appropriate Identity information. Select the "Add" button.

Add User		×
Identity/Username		
User0		
Keep this dialog open aft	er adding user CANCEL	ADD

Note: To quickly create multiple users, check "Keep this dialog open after adding user".

Delete a User

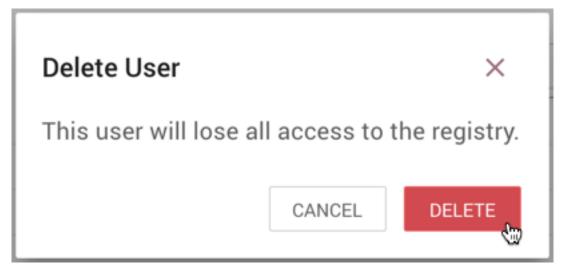
1. Select the Delete button (



) in the row of the user.

NiFi Registry / Administration	User1 😯 🗙
BUCKETS USERS	
Authorized Users (56)	
	ADD USER ACTIONS -
Display Name 🔺	
User0	/ t
User1	Delete User
User2	2 û .
User3	/ 🖬 🛛 🖡
User4	2 ₫ 0
User5	e 🗇 🏛 🗆

2. From the Delete User dialog, select "Delete".



Delete Multiple Users

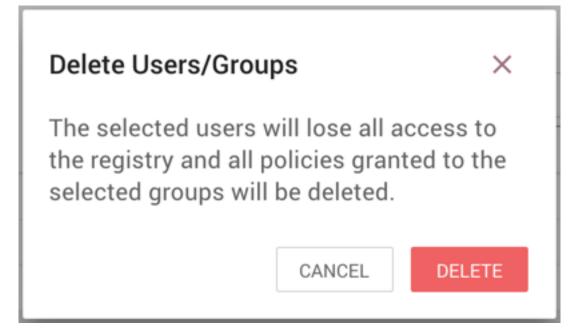
1. Select the checkboxes in the rows of the desired users to delete.

NiFi Registry / Administration	User1 😯 🗙
BUCKETS USERS	
Authorized Users (55)	ADD USER ACTIONS -
Display Name 🔺	
User1	2 ₫ .
User2	200
User3	Ø 🛍 🗆
User4	× 🖬 🖸
User5	e 🗇 🖬
User6	Ø 🗊 🔤

2. Select the "Actions" drop-down and click the "Delete" option.

NiFi Registry / Administration	User1 😯 🗙
BUCKETS USERS	
Authorized Users (55)	ADD USER ACTIONS -
Display Name 🔺	Delete
User1	Create new group
User2	200
User3	e 🗇 🗆 🗆
User4	/ û 🛛 🖡
User5	1 1
User6	e 🗇 🗇

3. From the Delete Users dialog, select "Delete".



Edit a User Name

1. Select the Manage button (



) in the row of the user.

NiFi Registry / Administration	User1 😯 🗙
BUCKETS USERS	
Authorized Users (56)	
	ADD USER ACTIONS -
Display Name 🔺	
User 0	
User1	Manage User
User2	2 🛍 🗆
User3	2 🖬 🗉 🖡
User4	e 🗇 🖾
User5	P 🗓 🖾

2. Enter a new user name and select the "Save" button.

NiFi Registry / Administration	User4 ×
BUCKETS USERS	Identity/User Name User1234 SAVE
Authorized Users (13)	Special Privileges ⑦ Can manage buckets ⑦ Read Write Delete Can manage users ⑦
Display Name 🔺	Read Write Delete
User0	Can manage policies ?
User1	Read Write Delete Can proxy user requests
User2	Read Write Delete
User3	
User4	MEMBERSHIP
User5	Membership (0) ADD TO GROUP
	CLOSE

Warning: Some users cannot have their names edited. For example, those defined by LDAP. These users will be specially highlighted in the list.

uthorized Users (56)		
	ADI	DUSER ACTIONS -
Display Name 🔺		
test		I 🗊 🖉
training		e 🗇 🖬 🗖

Special Privileges

Special privileges are additional permissions that allow a user to manage or access certain aspects of the Registry. The special privileges are:

- Can manage buckets Allow a user to manage all buckets in the registry, as well as provide the user access to all buckets from a connected system (e.g., NiFi).
- · Can manage users Allow a user to manage all registry users and groups.
- Can manage policies Allow a user to grant all registry users read, write, and delete permission to a bucket.
- Can proxy user requests Allow a connected system (e.g., NiFi) to process requests of authorized users of that system. For example, if dev and prod NiFi clusters are connected to the same NiFi Registry instance, privileges can be set to allow the dev NiFi cluster to only update versioned flows while limiting the prod NiFi to only download flows.

Grant Special Privileges to a User

1. Select the Manage button (

) in the row of the user.

NiFi Registry / Administration	Userl 🧿 🗙
BUCKETS USERS	
Authorized Users (56)	T ADD USER ACTIONS -
Display Name 🔺	
User 0	***
User1	Manage User
User2	/ 🖬 🛛
User3	/ ti
User4	1 1
User5	1 1

2. Check the desired privileges:

NiFi Registry / Administration	User0	×
BUCKETS USERS	Identity/User Name	SAVE
Authorized Users (13)	Special Privileges ⑦ Can manage buckets ⑦ Read Ø Write Ø Delete	
Display Name 🔺	Can manage users ③	
User0	🖾 Can manage policies 🕐	
User1	Read Write Delete Can proxy user requests ?	
User2	Read Write Delete	
User3		
User4	MEMBERSHIP	
User5		
User6		ADD TO GROUP
User7	Display Name 🔺	
User8	This user does not belong to an	y groups yet.
		CLOSE

3. Changes made to special privileges are automatically saved.

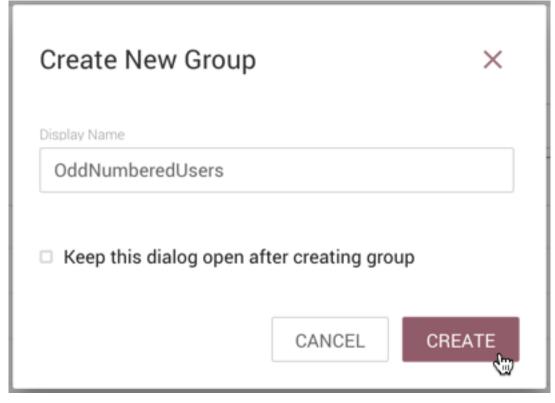
Manage Groups

Add an Empty Group

1. With no users checked, select the "Actions" drop-down and click the "Create new group" option.

NiFi Registry / Administration	Userl 😯 🗙
BUCKETS USERS	
Authorized Users (56)	
	ADD USER ACTIONS -
Display Name 🔺	Delete
User1	Create new group
User2	2 û □
User3	2 û .
User4	2 ti o 🛛
User5	2 û .
User6	/ 🖬 🗆

2. Enter a name for the Group and select the "Create" button.



Note: To quickly create multiple empty groups, check "Keep this dialog open after creating group".

Add User to a Group

1. Select the Manage button (



0

) in the row of the user.

2. Select the "Add To Group" button.

NiFi Registry / Administration	User7	×
BUCKETS USERS	Identity/User Name User7 SA	WE
Authorized Users (14)	Special Privileges ⑦ Can manage buckets ⑦ Read Write Delete	
Display Name 🔺	Can manage users () Read Write Delete	
User0 User1	Can manage policies 💿	
User2 User3	Read Write Delete	
User4 User5	MEMBERSHIP	
User6 User7	Membership (0) ADD TO GR	
User8	This user does not belong to any groups y	et.
	CLOS	SE

3. In the "Add User to Groups" dialog, select the group(s) to add the user to. Select the "Add" button when all desired groups have been selected.

Add user to groups	×
Display Name 🔺	0
😁 Group1	
📽 Group2	
🐸 Group3	
😁 Group4	
😁 Group5	
😁 Group6	
📽 Group7	
CANCEL	ADD

4. The user is added to the group:

NiFi Registry / Administration	User7	×
	Identity/User Name	
BUCKETS USERS	User7	SAVE
Authorized Users (14)	Special Privileges ⑦	
· · ·		
	Can manage users 🔞	
Display Name 🔺	Read Write Delete	
User0	Can manage policies (2)	
User1	Read Write Delete	
Useri	Can proxy user requests 🔞	
User2	Read Write Delete	
User3		
User4	MEMBERSHIP	
User5	Mambarakin (1)	ADD TO GROUP
User6	Membership (1)	ADD TO GROUP
User7	Display Name 🔺	
User8	🚰 Group7	ŵ
		CLOSE



Note: Groups cannot contain other groups.

Create a New Group with Selected Users

1. Select the checkboxes in the rows of the desired users. From the "Actions" drop-down, click the "Create new group" option.

NiFi Registry / Administration	User1 🧃
BUCKETS USERS	
Authorized Users (65)	
	T ADD USER ACTIONS -
Display Name 🔺	Delete
User1	Create new group
User2	10
User3	P 🛈 🖂
User4	/ 🛈 🗆
User5	P 🗓 🖂
User6	/ 🗅 💿
User7	/ 🗅 🗆
User8	2 Û .
User9	1 û 2

2. Enter a name for the Group and select the "Create" button.

Create New Group	x x	
Display Name		
EvenNumberedUsers		
 Keep this dialog open after creating group CANCEL CREATE 		

3. The new group is created with the selected users as members:

NiFi Registry / Administration	📽 EvenNumberedUsers	×
BUCKETS USERS	Identity/Group Name EvenNumberedUsers	SAVE
Authorized Users (15)	Special Privileges ⑦ Can manage buckets ⑦ Read Write Delete Can manage users ⑦	
Display Name 🔺	Read Write Delete	
🖀 EvenNumberedUsers	Can manage policies	
📽 Group7	Read Write Delete	
CN=localhost, OU=NIFI	Can proxy user requests ③	
CN=sys_admin, OU=NIFI		
CN=test_user, OU=NIFI	MEMBERSHIP	
User0		
User1	Membership (4)	ADD USERS
User2	Display Name 🔺	
User3	User2	Ô
	User4	Û
User4	User6	Û
User5	User8	Û
		CLOSE

Remove a User from a Group

There are two ways to remove a user from a group.

User Window

1. Select the Manage button (



) in the row of the user.

2. In the Membership section of the window, select the Remove button (



) in the row of the group.

NiFi Registry / Administration	User2	×
	Identity/User Name	
BUCKETS USERS	User2 SAVE	
Authorized Users (15)	Special Privileges ⑦ Can manage buckets ⑦ Read Write Delete	
Display Name 🔺	Can manage users 💿	
User0	Can manage policies ⑦	
	Read Write Delete	
User1	Can proxy user requests (2)	
User2	Read Write Delete	
User3		
User4	MEMBERSHIP	
User5		
User6	Membership (1) ADD TO GROU	P
User7	Display Name 🔺	
	📸 EvenNumberedUsers 🏛	
User8		<u>}</u>
User9	"Remove user from gr	oup
	CLOSE	

Group Window

1. Select the Manage button (

) in the row of the group. The Members tab is selected by default.

2. In the Membership section of the window, select the Remove button (



) in the row of the user.

NiFi Registry / Administration	📽 EvenNumberedUsers	×
	Identity/Group Name	
BUCKETS USERS	EvenNumberedUsers	SAVE
Authorized Users (15)	Special Privileges ⑦ Can manage buckets ⑦ Read Write Delete	
Display Name 🔺	Can manage users ⑦	
EvenNumberedUsers	Read Write Delete Can manage policies ⑦	
	Read Write Delete	
🔮 Group7	Can proxy user requests (?)	
CN=localhost, OU=NIFI	Read Write Delete	
CN=sys_admin, OU=NIFI		
CN=test_user, OU=NIFI	MEMBERSHIP	
User0		[]
User1	Membership (4)	ADD USERS
User2	Display Name 🔺	
User3	User2	<u>ت</u> جس
	User4	'Remove user from group'
User4	User6	
User5	User8	ŵ
		CLOSE

Other Group Level Actions

Editing group names, deleting groups, adding policies to/deleting policies from groups and granting special privileges to groups follow similar procedures described earlier for corresponding user level actions.

Manage Bundles

Bundles can be managed through the REST API.

Upload Bundle

A bundle can be uploaded to a bucket by making a POST request to the following REST end-point:

/nifi-registry-api/buckets/<bucketId>/bundles/<bundleType>

Replace bucketId with the id of the bucket where the bundle is being uploaded to and bundleType with the type of bundle being uploaded. Currently, the only supported bundle type is a https://nifi.apache.org/docs/nifi-docs/html/ developer-guide.html#nars which can be specified as nifi-nar.

The Content-Type of the request is expected to be multipart/form-data. An example of using curl to upload my-proce ssors-1.0.0.nar would be the following:

```
curl -v -F file=@/path/to/my-processors-1.0.0.nar http://localhost:18080/ni
fi-registry-api/buckets/de8e08c9-592d-4e10-affe-b3752698f1d9/bundles/nifi-na
r
```



Note: In order to upload a NAR to NiFi Registry, it must contain the file META-INF/docs/extensionmanifest.xml which is produced by the NAR Maven plugin, starting with version 1.3.0.

Download Bundle

There are two ways to download a bundle.

Bundle Coordinates

A bundle can be downloaded by using the combination of the bucket name and bundle coordinates, where bundle coordinates are the group, artifact, and version of the bundle.

To download a bundle by its coordinates, a GET request can be made to the following end-point:

```
/nifi-registry-api/extension-repository/{bucketName}/{groupId}/{artifactId}/
{version}/content
```

The Content-Type of the response is application/octet-stream.

An example of using curl to download my-processors-1.0.0.nar from the Test bucket would be the following:

```
curl http://localhost:18080/nifi-registry-api/extension-repository/Test/com
.test/my-processors/1.0.0/content > my-processors-1.0.0.nar
```

Bundle Id

A bundle can be downloaded by using the combination of its unique id and version. The unique id is an id assigned to the bundle when the first version of the bundle is uploaded to NiFi Registry. This id is returned in the response of a successful upload.

To download a bundle by its id and version, a GET request can be made to the following end-point:

/nifi-registry-api/bundles/{bundleId}/versions/{version}/content

The Content-Type of the response is application/octet-stream.

An example of using curl to download my-processors-1.0.0.nar by id and version would be the following:

```
curl http://localhost:18080/nifi-registry-api/bundles/3db78035-e3ba-4cbf-82
0e-022f292bd68c/versions/1.0.0/content > my-processors-1.0.0.nar
```

Additional Actions

For additional actions that can be performed related to bundles, please consult the NiFi Registry REST API Overview.