Apache NiFi Registry 3

# **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.

)

Bucket: A container that stores and organizes flows.

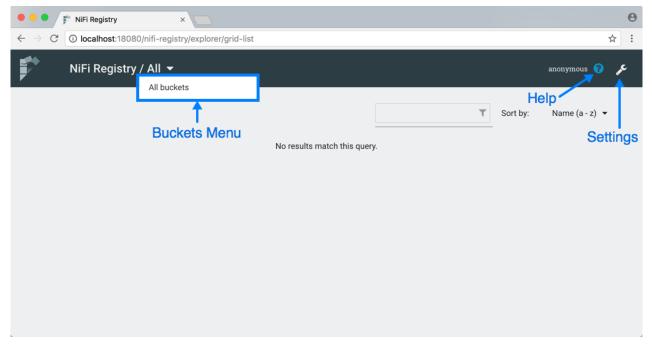
Policy: Defines a user or group's ability to import, view, commit changes and/or delete flows.

## 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:// hostname: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:



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.

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

Username	
Password	
CLEAR LOG IN	

# **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 👻				registry_user LOGOUT	
		T	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			~	

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 👻			registry_user LOGOUT
All buckets Bucket 1 Bucket 2 Bucket 3		T 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		~

Click on a flow to see its Description and Change Log:

	NiFi Registry / All 🔻		registry_user LOGOUT
			Sort by: Name (a - z) 🔻
	Flow 1 - Bucket 1 Flow	VERSIONS 1	~
	Flow 2 - Bucket 2 Flow	VERSIONS 2	^
			ACTIONS -
	DESCRIPTION	CHANGE LOG	
	Description 2	Version 2 - 40 minutes ago by registry_user	
		Add processors Dec-26-2017 at 11:23 PM	
		Version 1 - 41 minutes ago by registry_user	

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) or by Update (newest or oldest) using the drop-down at the top right of the UI.

NiFi Registry / All 👻		registry_user LOGOUT
Flow 1 - Bucket 1 Flow	VERSIONS 1	▼ Sort by: Name (a - z) ▼ Name (z - a) Oldest (update)
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

Here is an example filtering by flow name:

	NiFi Registry / All 🔻			registry_user LOGOUT
		Flow 2	T Sort by:	Name (a - z) 🔻
	Flow 2 - Bucket 2 Flow	VERSIONS 2		~
_				

## **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" menu option.

NiFi Registry / All 🔻			registry_user LOGOUT
		٣	Sort by: Name (a - z) 🔻
Flow 1 - Bucket 1 Flow	VEF 1	RSIONS	^
			ACTIONS -
DESCRIPTION	CHANGE LOG		delete 👦
Description 1	Version 1 - an hour ago by nobel Comments 1 Dec-26-2017 at 11:22 PM		
Flow 2 - Bucket 2 Flow	VEF 2	RSIONS	~

3. Select "Delete" to confirm.

Flow 1 - Bucket 1 Flow	J.	VERSION	45	^
DESCRIPTION	СНАМ	Delete flow All versions of this flow v	× vill be deleted.	ACTIONS -
Description 1	1	CA Comments 1 Dec-26-2017 at 11:22 PM	NCEL	

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	2 🛍 🗆
Bucket 2	2 ti 🗆
Bucket 3	e 🗇 🗆 🗆
Bucket 4	2 û .
Bucket 5	Ø 🗇 🗆
Bucket 6	2 û o

The buckets listed can be filtered by:

bucket name

.

- bucket description
- bucket ID

Here is an example filtering by bucket name:

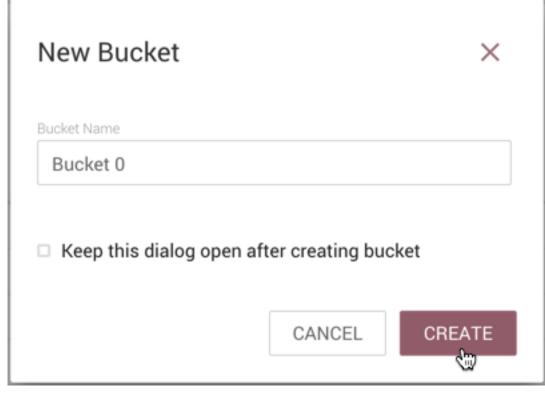
F	NiFi Registry / Administration		User1 😯 🗙
	BUCKETS USERS		
	Buckets (24)		
		Bucket 4 🙁 🝸	NEW BUCKET ACTIONS -
	Bucket Name 👻		
	Bucket 4		e 🛍 🗆

## **Create a Bucket**

**1.** Select the "New Bucket" button.

	NiFi Registry / Administration	Userl 🕢 🗙
-	BUCKETS USERS	
	Buckets (24)	NEW BUCKET ACTIONS -
	Bucket Name 🔺	
	Bucket 1	/ 🕯 💿
	Bucket 2	/ 🗊 🗆
	Bucket 3	/ 🗊 🗆
	Bucket 4	2 û □
	Bucket 5	/ 🗅 🗆
	Bucket 6	/ 🗅 🗆

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



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

### **Delete a Bucket**

**\$** 

- 1. Select the Delete button
  - ر 🏛

in the row of the bucket.

	NiFi Registry / Administration	Userl 😯 🗙
-	BUCKETS USERS	
	Buckets (25)	
		T   NEW BUCKET   ACTIONS -
	Bucket Name 🔺	
	Bucket 0	<ul> <li>         • • •         •         •</li></ul>
	Bucket 1	Delete Bucket
	Bucket 2	2 û -
	Bucket 3	∕ û □
	Bucket 4	∕ û .
	Bucket 5	ℓ û □

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

Delete Bucket		×
All items stored in thi deleted as well.	is bucket w	ill be
	CANCEL	DELETE

## **Delete Multiple Buckets**

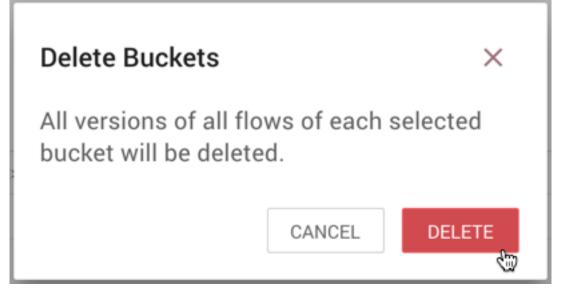
1. Select the checkboxes in the rows of the desired buckets to delete.

NiFi Registry / Administration	Userl 💡 🗙
BUCKETS USERS	
Buckets (24)	
	▼         NEW BUCKET         ACTIONS ▼
Bucket Name 🔺	
Bucket 1	/ 🖬 🗆
Bucket 2	/ 🖬 🗆
Bucket 3	Ø 🛍 🗆
Bucket 4	P 🛍 🖾
Bucket 5	P 🛍 🗠
Bucket 6	Ø 🖞 🖂

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

NiFi Registry / Administration		Userl 💡
KETS USERS		
uckets (24)		
	T NEW BUCKET	ACTIONS -
Bucket Name 🔺		Delete 👦
Bucket 1		Ø 🛍 🗆
Bucket 2		e 🛍 🗆
Bucket 3		e 🗊 🗆
Bucket 4		e 🗊 🖬
Bucket 5		e û 🖸
		e i e
	EETS USERS UCKETS (24) Bucket Name ▲ Bucket 1 Bucket 2 Bucket 3 Bucket 4	XETS USERS     Ickets (24)     Image: Comparison of the second of th

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



### **Edit a Bucket Name**

1. Select the Manage button

NiFi Registry / Administration	User1
UCKETS USERS	
Buckets (25)	NEW BUCKET ACTIONS -
Bucket Name 🔺	
Bucket 0	4 📖 🛍 🗆
Bucket 0 Bucket 1	Kanage Bucket
Bucket 1	Manage Bucket
Bucket 1 Bucket 2	Manage Bucket

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 (25)	Policies (0) NEW POLICY Display Name A Permissions
Bucket Name 🔺	Display Name A Permissions
Bucket 0	No results to display.
Bucket 1	
Bucket 2	
Bucket 3	
Bucket 4	
Bucket 5	
	CLOSE

### **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 (24)	Policies (0) Display Name • Permissi	NEW POLICY
Bucket Name 🔺		
Bucket 4	No results to dis	play.
Bucket 5		
Bucket 6		
Bucket 7		
Bucket 8		
Bucket 9		
		CLOSE

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

New Policy	×
Display Name 🔺	
User3	0
User4	
User5	
User6	
User7	
User8	
User9	
🗹 All 🔽 Read 🔽 Write 🔽 Dele	te
CANCEL	APPLY

)

4. The policy is added to the bucket:

NiFi Registry / Administration	Bucket 7	×
BUCKETS USERS	Identity/Bucket Name Bucket 7	SAVE
Buckets (24)	Policies (1)	NEW POLICY
Bucket Name * Bucket 4	Display Name A Permission User7 read, write, c	
Bucket 5 Bucket 6		
Bucket 7 Bucket 8 Bucket 9		
		CLOSE

### **Delete a Bucket Policy**

1. Select the Manage button



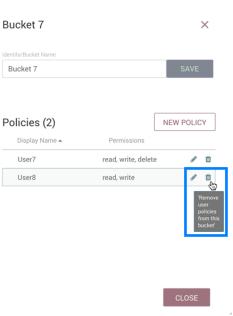
in the row of the bucket.

2. Select the Delete button

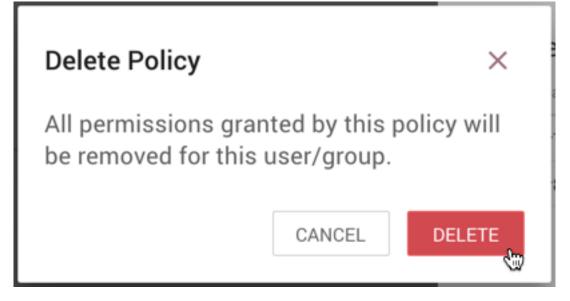


in the row of the policy.

USERS Buckets (24) Bucket Name +		
Bucket Name *		
Bucket 4		
Bucket 5		
Bucket 6 Bucket 7		
Bucket 8		
DUCKELS		
	Bucket 6 Bucket 7	Bucket 6 Bucket 7 Bucket 8



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	
User1	/ 🗊 🗆
User2	ℓ û □
User3	♪ û □
User4	/ û 🛛 🖡
User5	ℓ û □
User6	Ø û 🗆

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:

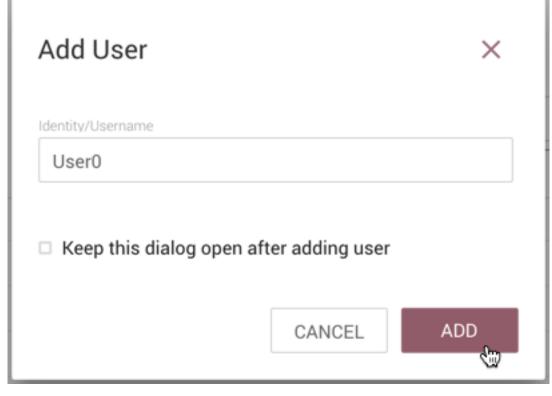
BUCKETS USERS		
Authorized Users (55)	User4	ADD USER ACTIONS -
Display Name 🔺		
User4		Ø 🛍 🗆

## Add a User

1. Select the "Add User" button.

NiFi Registry / Administration	Userl 🕜	×
BUCKETS USERS		
Authorized Users (55)		
	ADD USER ACTIONS -	
Display Name 🔺		
User1	1 □	
User2	1 □	
User3	/ 🗓 🗆	
User4	≠ û □ 0	
User5	2 û -	
User6	✓ ① □	

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



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

### **Delete a User**

- 1. Select the Delete button
  - ر ش

in the row of the user.

NiFi Registry / Administration	Useri 😯 🗙
BUCKETS USERS	
Authorized Users (56)	
	▼ ADD USER ACTIONS →
Display Name 🔺	
User0	/ to
User1	Delete User
User2	Ø 🛍 🗆
User3	2 🖬 🗆 🖡
User4	Ø 🛍 🗆
User5	Ø 🛍 🗆

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

Delete User		×		
This user will lose all access to the registry.				
	CANCEL	DELETE		

**Delete Multiple Users** 

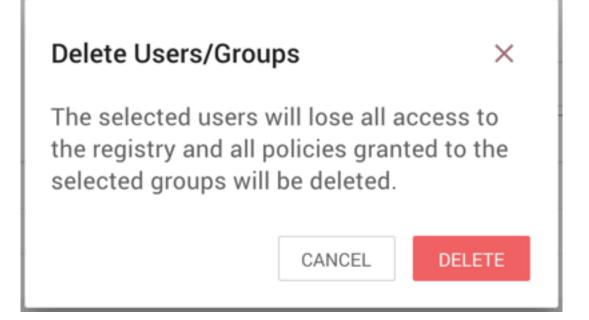
1. Select the checkboxes in the rows of the desired users to delete.

NiFi Registry / Administration	Userl 🝞
BUCKETS USERS	
Authorized Users (55)	
	T ADD USER ACTIONS -
Display Name 🔺	
User1	✓ û □
User2	2 û -
User3	1 û _
User4	× 🖬 🖂 🖡
User5	в 🗇 🗹
User6	A 🗊 🖾

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

	NiFi Registry / Administration		User1 😗 🗙
	BUCKETS USERS		
I	Authorized Users (55)		
		T ADD USER	ACTIONS -
	Display Name 🔺		Delete 🛻
	User1		Create new group
	User2		100
	User3		/ 🛍 🗆
	User4		e û 🛛 🛛
	User5		e 🗊 🖸
	User6		e û 🖸

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



## Edit a User Name

1. Select the Manage button

NiFi Registry / Administration	User1
UCKETS USERS	
Authorized Users (56)	
	▼         ADD USER         ACTIONS ▼
Display Name 🔺	
User 0	
Userl	Manage User
User2	1 🖬 🗆
User3	2 ti 🗆
User4	6° W W

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

NiFi Registry / Administration	User0	×
BUCKETS USERS	Identity/User Name User1234	SAVE
Authorized Users (56)	Special Privileges ⑦ Can manage buckets ⑦ Read Write Delete	
Display Name A	Can manage users ⑦ Read Write Delete Can manage policies ⑦	
User1 User2	Read Virite Delete	
User3 User4	MEMBERSHIP	
User5	Membership (0)	GROUP
		CLOSE

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

Authorized Users (56)	
	ADD USER ACTIONS -
Display Name 🔺	
test	8 🗇 🖉
training	/ 🕯 🔍

### **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.

#### **Grant Special Privileges to a User**

**1.** Select the Manage button



#### in the row of the user.

<b>ب</b>	NiFi Registry / Administration	User1 💡
В	JCKETS USERS	
Γ	Authorized Users (56)	
		ADD USER ACTIONS -
	Display Name 🔺	
	User 0	
	Userl	Manage User
	User2	1 ti -
	User3	/ 🖬 🗆 🖡
	User4	Ø Û 🛛
	User5	e 11 12

#### **2.** Check the desired privileges:

NiFi Registry / Administration	User 0	×
BUCKETS USERS	Identity/User Name User 0	SAVE
Authorized Users (56)	Special Privileges ⑦ ☑ Can manage buckets ⑦ ☑ Read ☑ Write ☑ Delete	
Display Name 🔺	Can manage users ③	
CN=nifi-01.eng.hortonworks.com, 0=HWX, L=Fulton, ST=Maryland, C=US	Can manage policies (2)	
CN=nifi-02.eng.hortonworks.com, 0=HWX, L=Fulton, ST=Maryland, C=US	Read Write Delete	
CN=nifi-03.eng.hortonworks.com, 0=HWX, L=Fulton, ST=Maryland, C=US	Can proxy user requests (?)	
CN=nifi-05.eng.hortonworks.com, 0=HWX, L=Fulton, ST=Maryland, C=US	MEMBERSHIP	
CN=rmoran, O=HWX, L=Fulton, ST=Maryland, C=US		
Cccccc	Membership (0)	D TO GROUP
User 0	Display Name 🔺	
User1		
linno	This user does not belong to any	groups
		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			User1 🕜 🗙
BUCKETS USERS			
Authorized Users (56)			
	T		DNS -
Display Name 🔺		Delet	
User1		Creat	e new group
User2		Ø Û	
User3		ø 🗇	0
User4		ø û	
User5		e 🗊	•
User6		P 🗊	

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

Create New Group	×
Display Name	
OddNumberedUsers	
Keep this dialog open after creating group          CANCEL       C	REATE



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

in the row of the user.

2. Select the "Add To Group" button.

NiFi Registry / Administration	User7	×
BUCKETS USERS	Identity/User Name	SAVE
Authorized Users (57)	Special Privileges ⑦ Can manage buckets ⑦ Read Write Delete	
Display Name 🔺	Can manage users (?)	
User 0	Can manage policies	
User1	Read Write Delete	
User2	Can proxy user requests	
User3	MEMBERSHIP	
User4		
User5	Membership (0)	ADD TO GROUP
User6	Display Name 🔺	÷
User7		
User8	This user does not belong to any	groups yet.
User9		
		CLOSE

**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 🔺	
😁 Group1	0
😁 Group2	
😁 Group3	
😁 Group4	•
📽 Group5	•
📽 Group6	0
😁 Group7	
CANCEL	ADD
	<b>A</b>

**4.** The user is added to the group:

NiFi Registry / Administration	User7	×
BUCKETS USERS	Identity/User Name	SAVE
Authorized Users (65)	Special Privileges ⑦ Can manage buckets ⑦ Read Write Delete	
Display Name =	Can manage users ③	
User 0	Can manage policies	
User1	Read Write Delete	
User2	Can proxy user requests 🕜	
User3	MEMBERSHIP	
User4		
User5	Membership (1)	DD TO GROUP
User6	Display Name 🔺	
User7	👻 Group7	ŵ
User8		-
User9		
		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)	
	ADD USER ACTIONS -
Display Name 🔺	Delete
User1	Create new group
User2	/ 🗊 🗆
User3	1 î S
User4	/ 🗉 🗆
User5	1 🗉 🖻
User6	/ 🗆 🗆
User7	2 ti -
User8	/ û 🗆
User9	e î 🖸 🖸

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

Create New Group	) ×
Display Name	
EvenNumberedUsers	
Keep this dialog open a	after creating group CANCEL CREATE

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

NiFi Registry / Administration	📽 EvenNumberedUsers	2
	kdentity/Group Name	
BUCKETS USERS	EvenNumberedUsers	SAVE
Authorized Users (65)	Special Privileges 🕝	
	Read Write Delete	
	Can manage users 😗	
Display Name 🔺	Read     Write     Delete	
₩ 4 44	Can manage policies 🕐	
😁 DREW	Read     Write     Delete	
EvenNumberedUsers	Can proxy user requests (?)	
😤 Group1	MEMBERSHIP	
🚰 Group2	WEWDENSTIF	
👹 Group3	Membership (4)	ADD USERS
😤 Group4	Display Name 🔺	
🖀 Group5		
🖀 Group6	User2	Û
嶜 Group7	User4	Ŵ
🚰 HDF Team	User6	Û
	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	×
BUCKETS USERS	Identity/User Name	SAVE
Authorized Users (65)	Special Privileges ⑦ Can manage buckets ⑦ Read Write Delete	
Display Name +	Can manage users 🌒	
CN=nifi-05.eng.hortonworks.com, 0=HWX, L=Fulton, ST=Maryland, C=US	Read Write Delete	
CN=rmoran, O=HWX, L=Fulton, ST=Maryland, C=US	Can proxy user requests (2)	
User 0	MEMBERSHIP	
User1		
User2	Membership (1)	ADD TO GROUP
User3	Display Name 🔺	
User4	😤 EvenNumberedUsers	Û
User5		Remove user
User6		from group'
liser7		
		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	
	CKETS USERS	EvenNumberedUsers	SAVE
۵	authorized Users (65)	Special Privileges ⑦	
		Read     Write     Delete	
	Display Name 🔺	Can manage users 🕐	
		Read Write Delete	
	🚰 4 44	Can manage policies	
	😁 DREW	Read Write Delete	
	EvenNumberedUsers	Can proxy user requests (2)	
	🖶 Group1		
	😤 Group2	MEMBERSHIP	
	🗑 Group3		
	😤 Group4	Membership (4)	ADD USERS
	Group5	Display Name 🔺	
	Group6	User2	Ę.
	Group7	User4	'Remove user from group'
	HDF Team	User6	
	GddNumberedUsers	User8	節
			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.