
Setting Up Users and Roles with the Domain Manager

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Preface

This guide provides step-by-step instructions on how to use the Actifio Domain Manager to create users and assign them to roles and organizations. It assumes you have read ***Getting Started with Actifio Copy Data Management***, are familiar with the components of the Actifio Desktop, and have a grasp of the basic concepts associated with an Actifio appliance.

Your Actifio appliance's Documentation Library contains detailed, step-by-step, application-specific instructions on how to protect and access your data. Each guide is in PDF format and may be viewed online, downloaded, or printed on demand. The following guides will be of particular interest:

- ***Configuring Resources and Settings With the Domain Manager***
- ***Connecting Hosts to Actifio Appliances***
- ***Planning and Developing Service Level Agreements***
- ***Virtualizing and Protecting Copy Data with the Application Manager***
- ***Accessing and Recovering Copy Data with the Application Manager***
- ***Replicating Data Using Actifio Appliances***

Actifio Appliances

Unless otherwise specified, all features and functions described in this document apply to all Actifio appliances.

The ActifioNOW Customer Portal

During the configuration and initialization of your Actifio appliance your Actifio representative provided you with a user name and password for the ActifioNOW customer portal.

From the ActifioNOW customer portal you can obtain detailed reports about your Actifio appliance, access the Actifio product documentation, including release notes, and search the knowledge base for answers to specific questions.

To log into the ActifioNOW customer portal:

1. Go to: <https://now.actifio.com>.
2. When prompted, enter the user name and password provided by your Actifio representative.

Actifio Support Centers

To contact an Actifio support representative, you can:

- Send email to: support@actifio.com
- Call:
 - From anywhere:** +1.315.261.7501
 - US Toll-Free:** +1.855.392.6810
 - Australia:** 0011 800-16165656
 - Germany:** 00 800-16165656
 - New Zealand:** 00 800-16165656
 - UK:** 0 800-0155019

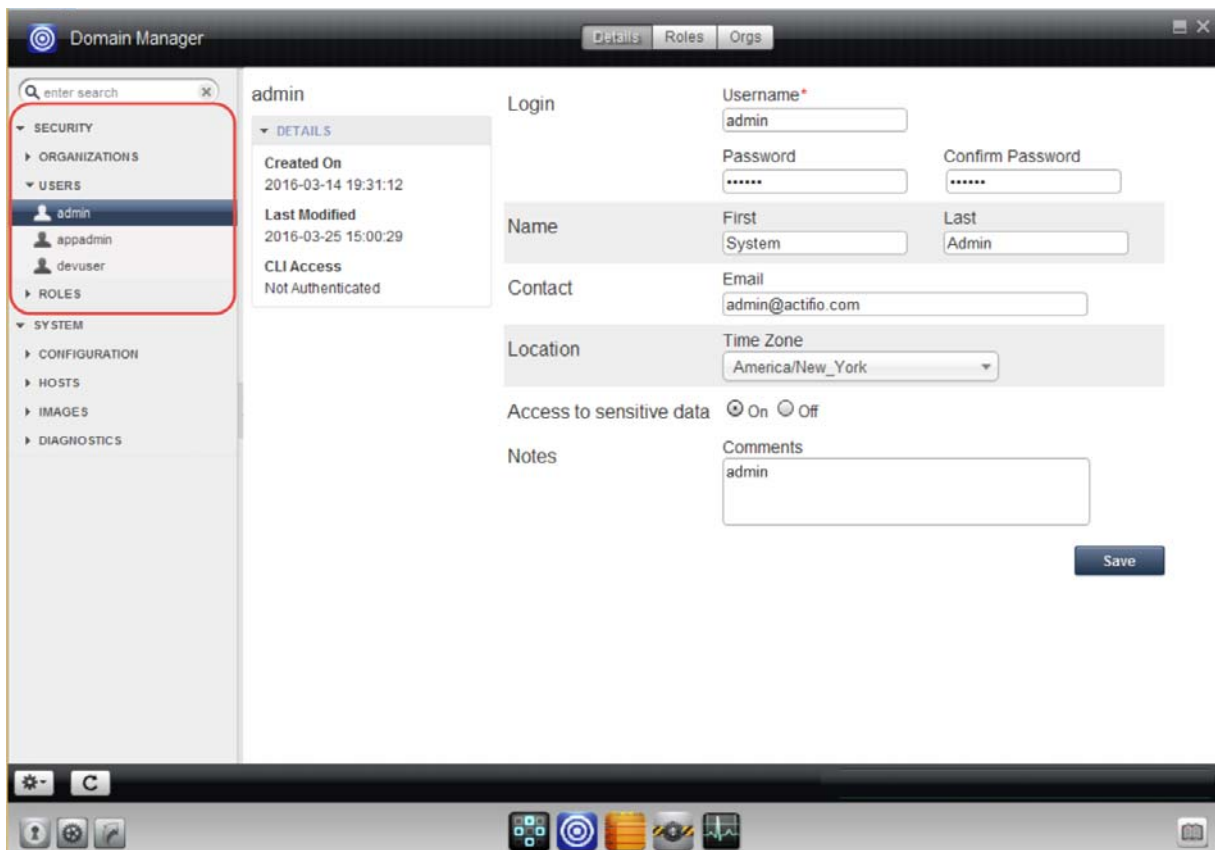
1 Introduction to the Security Functions of the Domain Manager

The Actifio Desktop Domain Manager service is your primary tool for configuring and managing relationships among all resources protected by an Actifio appliance. The **Security** function is where you manage organizations and users that have access to an Actifio appliance, and the roles that you create and assign to them. This document provides an overview on organizations, users, and roles in the Actifio appliance, and includes the procedures for you to follow to create and manage those security resources.

This introduction discusses:

[Functions of the Domain Manager Security Service](#) on page 2

[The Domain Manager Service Menu](#) on page 3



The Security Functions of the Actifio Desktop Domain Manager

The Domain Manager also includes a System section for managing hosts and appliances on which your data resides. These functions are detailed in **Configuring Resources and Settings With the Domain Manager**, **Configuring Actifio Event Alerting**, and **Connecting Hosts to Actifio Appliances**.

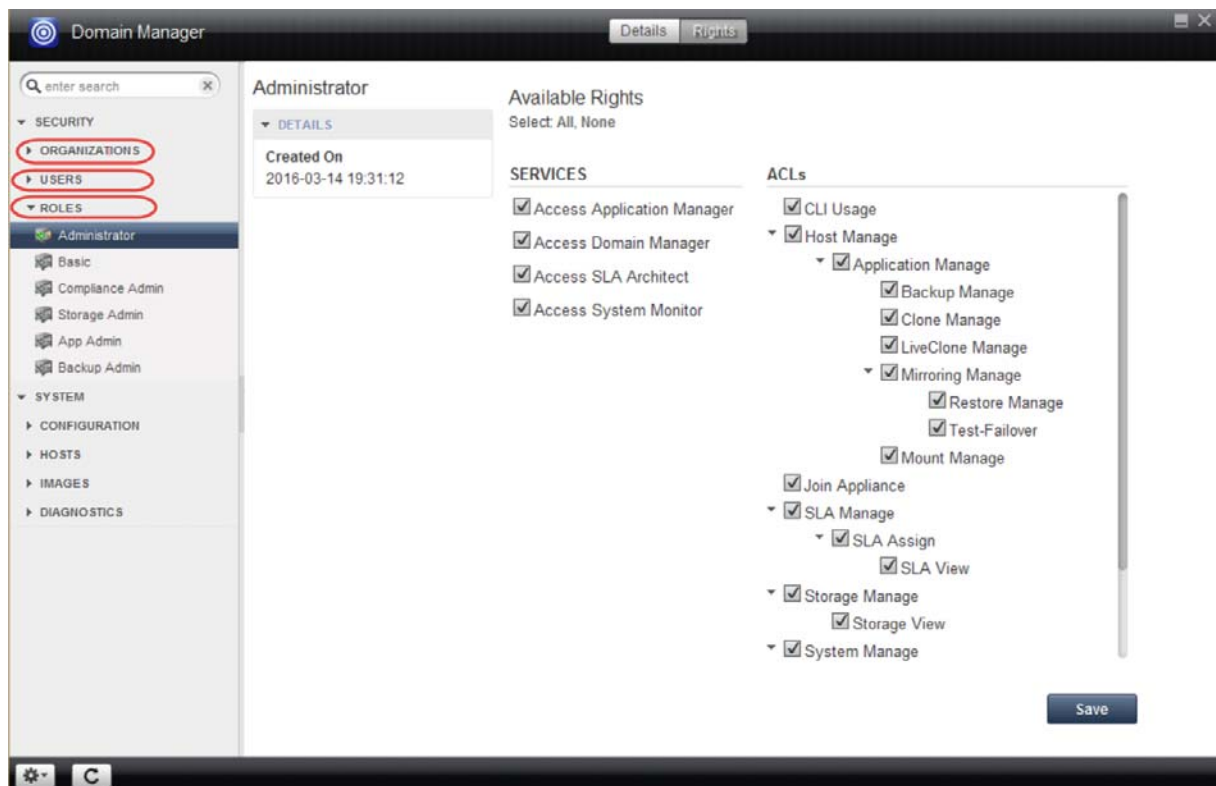
Functions of the Domain Manager Security Service

The Security function of the Domain Manager provides the following security services:

Organizations: Govern which users can access and manage which resources within an Actifio appliance. Tools for creating and managing organization resources are described in [Chapter 2, Creating and Managing Organizations](#).

Users: Govern who is able to use Actifio Desktop and Actifio appliances. Users can have varying levels of access rights. Tools for creating users and assigning roles are described in [Chapter 3, Creating and Managing Users](#).

Roles: Govern what actions users can take on the resources under their control. Tools for creating roles and assigning rights are described in [Chapter 4, Creating and Managing Roles](#).



The Three Security Services of the Domain Manager's Security Section

The Domain Manager Service Menu

The Domain Manager's service menu includes functions for Security functions and System functions.

Domain Manager Service Menu Items

Command Name	Task
Security Functions Service Menus (This Book)	
New Organization...	Create a new organization and assign resources. See Chapter 2, Creating and Managing Organizations .
New User...	Create a new user and assign roles to the user. See Chapter 3, Creating and Managing Users .
New Role...	Create a new role. See Chapter 4, Creating and Managing Roles .
System Functions Service Menus (see <i>Configuring Resources and Settings With the Domain Manager</i>)	
New Host...	Configure a new host.
Add New NAS Server	Add a NAS Server to an Actifio CDS appliance and specify its ports and virtual disks. <hr/> Note: See Configuring Actifio Big Data Director (BDD) for instructions on how to configure and use the Actifio Big Data Director (BDD). <hr/>
Join Appliance	Joins two Actifio appliances for copy data replication.
Certificate Exchange	Exchange security certificates between two Actifio appliances. This allows you to replicate data to and from the appliances.
Upload Certificate...	Upload the security certificate of a remote Actifio appliance to the Actifio appliance that you are logged into.
Download Certificate...	Download the security certificate of the Actifio appliance that Actifio Desktop is connected to a local folder.
Archive Job History...	Archive a record of jobs executed using Actifio Desktop.
Add CLI Access	Add an SSH public key to enable Command Line Interface (CLI) access for a user.
Remove CLI Access	Disable CLI access to a user.
Upload System Update	Upload patches and hotfixes to Actifio appliance (visible only to admin role).
Delete	Delete a user, role, organization, or host.

2 Creating and Managing Organizations

This chapter introduces features related to managing organizations:

[Managing Organizations](#) on page 5

[About Organization Resources](#) on page 9

[Managing Organization Resources](#) on page 10

Managing Organizations

This section describes:

[Creating an Organization](#) on page 7

[Viewing and Editing an Organization](#) on page 8

[Deleting an Organization](#) on page 8

Actifio Appliance Organizations

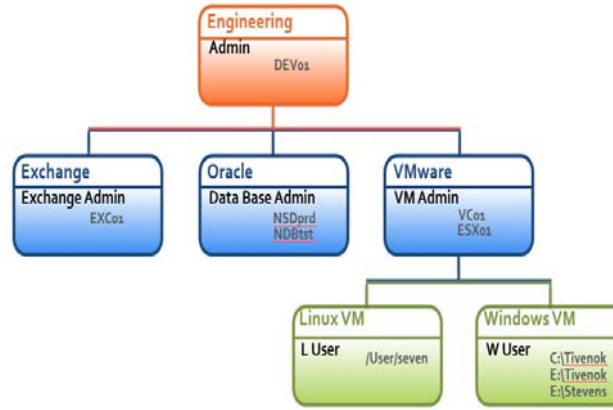
An Actifio appliance provides two predefined organizations: ALL and PUBLIC. You can create other organizations as needed.

ALL: All Actifio appliance resources of types other than user are resources of this organization. A user added to the organization “ALL” has access to every Actifio appliance resource (this is usually reserved for administrators).

PUBLIC: Every Actifio appliance user is a member of this organization. Every Actifio appliance user has access to an Actifio appliance resource (of type other than user) added to organization “PUBLIC”.

Hierarchy of Organization Resources

Organizations and Roles work together to enforce rules set up by Actifio appliance administrators for users. Organization membership governs which users can access/manage which resources within an Actifio appliance. Roles govern what actions users can take on the resources under their control. Organizations can be defined in a hierarchical fashion to match your organizational structure.



Organizations and Their Access Relationships

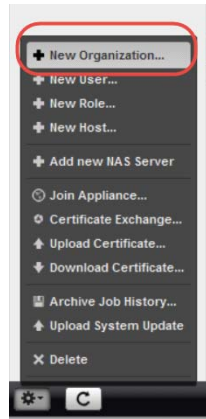
Example: Organization Resources

Organization	Resources			
	Child Organizations	Child Organizations	Users	Hosts
Engineering	-	-	Admin	DEV01
	Exchange	-	ExchangeAdmin	EXC01
	Oracle	-	DataBaseAdmin	NSDprd NDBtst
	VMware	-	VMAdmin	VC01 ESX01
		LinuxVM	LUser	/User/seven
		WindowsVM	WUser	C:/Tivenok E:/Tivenok E:/Stevens

Creating an Organization

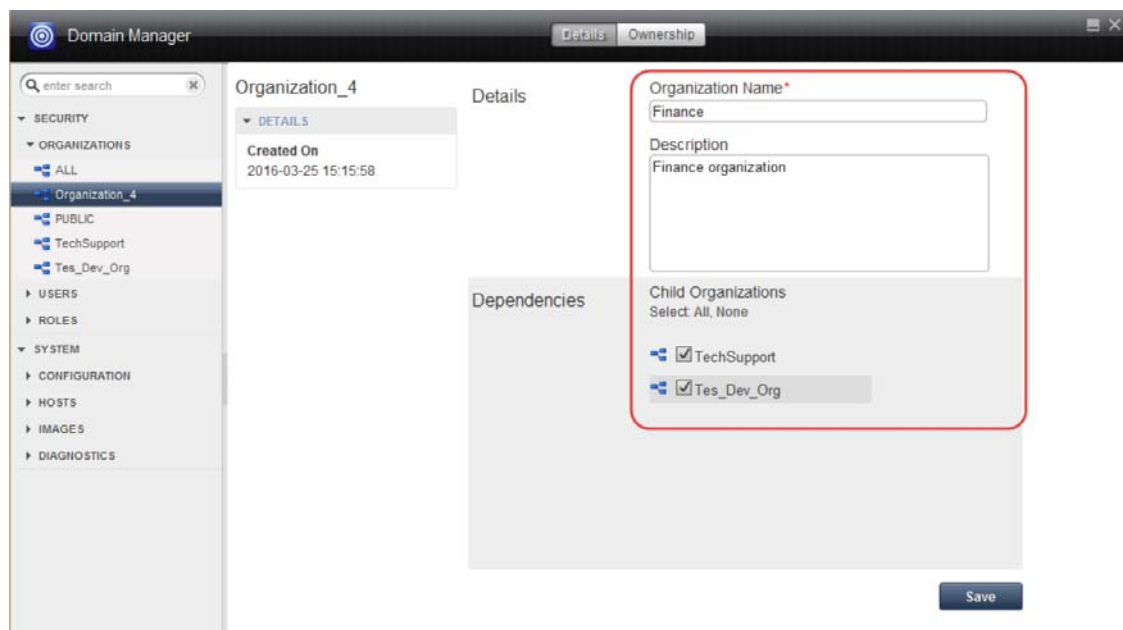
To create a new organization:

1. Open the Actifio Desktop to the **Domain Manager**.
2. From the Domain Manager service menu, select **New Organization**.



Creating a New Organization

The organization details page opens:



Choosing Organization Dependencies

3. Enter a name for the organization, and a brief description. Check the check-boxes for any existing organizations that should be dependents of the new organization.

Note: The name can be up to 64 alphanumeric characters, with no spaces or special characters. Hyphens (-) and underscores (_) are permitted.

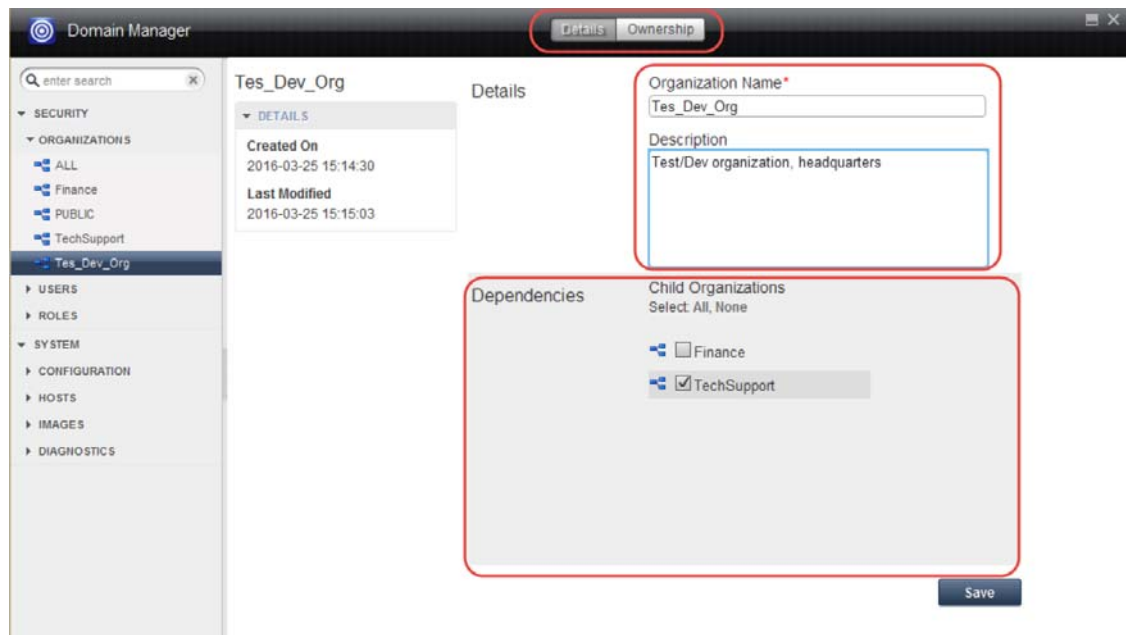
4. Click **Save**.

Viewing and Editing an Organization

The organization details page provides information about organizations, such as the name of the organization, creation date, and the dependent organization resources.

To view or edit an organization:

1. Open the Actifio Desktop to the **Domain Manager**.
2. Click **Organizations** from the navigation pane.
3. Select the **Organization**.
4. Click the **Details** tab. The Details pane displays the organization information.
5. To view the organization resources, click the **Ownership** tab.
6. Modify the name and description as needed and click **Save** to update the changes.



Editing Organization Details

Deleting an Organization

You can delete an organization that is no longer needed. To remove an organization:

1. Open the Actifio Desktop to the **Domain Manager**.
2. Under **Organizations** from the navigation pane, select the Organization.
3. Right-click the organization name and select **Delete**.
4. Click **Yes** in the confirmation dialog.

Note: The organizations *ALL* and *PUBLIC* cannot be deleted.

About Organization Resources

Organizations can be assigned resources. Resources are listed under the Ownership tab. Resources can be assigned to multiple organizations, and organizations can be assigned as dependents to other organizations. The following resource types can be owned by an organization:

Policy Templates are collections of policies. Each policy defines how the backup data is managed. Policy comprises of the type of the backup operation (snapshot, deduplication, replication etc.), frequency of the backup operation and life-time of the backed up data.

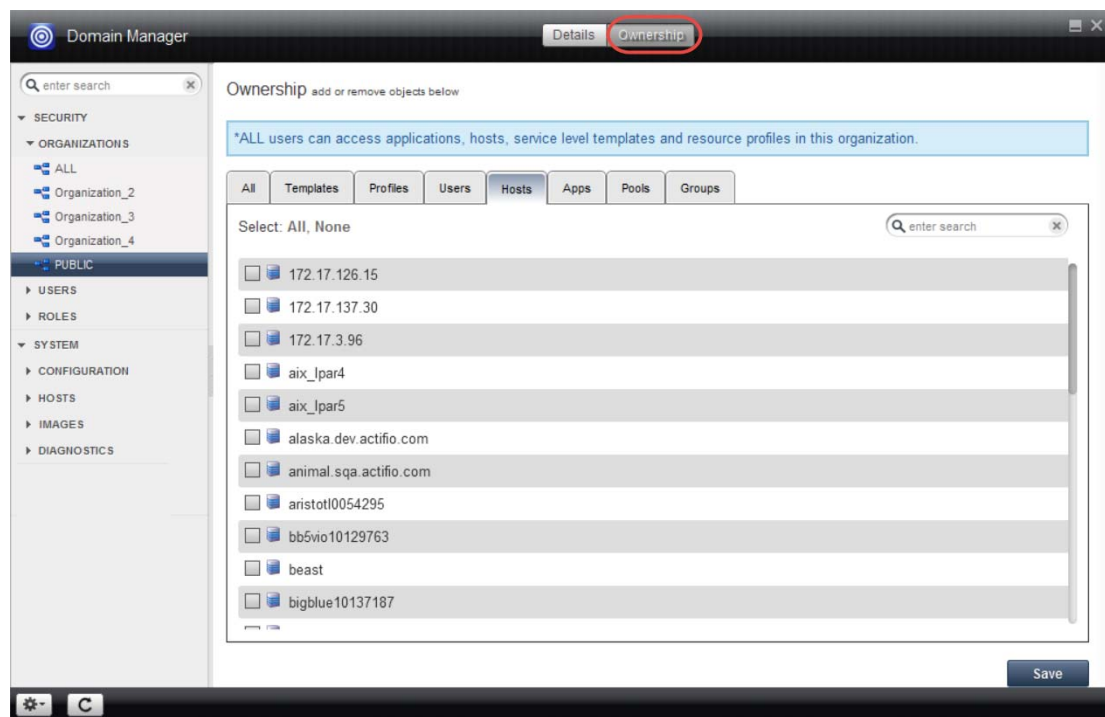
Profiles also known as Resource Profiles, specify the storage media for the backed up data.

Users are Actifio Desktop users of any level.

Hosts are data resources that will be protected by Actifio. Hosts can be physical servers or hypervisors.

Apps are applications. This is a generic term for data resources to be protected by an Actifio appliance.

Pools are storage resources.



Organizations May Be Assigned Templates, Profiles, Users, Hosts, Applications, and Pools

Hosts, Apps, and Groups

- There is no need to add an application to an organization if you are already placing its host into the organization. Placing a host into an organization automatically adds its apps. When new apps appear on that host over time (like new SQL databases), that host's new apps will automatically be in the organization.

Note: If you have a host with multiple apps that belong exclusively to different organizations, then do not add the host to either organization. Add the apps and leave the host with no organization.

- There is no need to add applications to an organization if the organization contains a Group that contains those apps. Placing a Group (not a Consistency Group) into an organization automatically adds that Group's apps to the organization. When new apps are added to the Group over time, the new apps in that Group are automatically added to the organization as well.

Managing Organization Resources

This section describes:

[Adding Resources to an Organization](#) on page 10

[Adding a Dependent Organization](#) on page 11

[Viewing Resources](#) on page 12

[Removing Resources from an Organization](#) on page 14

Adding Resources to an Organization

To create a relationship between resources and an organization, you must add resources to the organization. The procedure for adding templates, profiles, users, hosts, apps, and pools is the same. The procedure for adding a dependent organization is a little different; it is detailed in [Adding a Dependent Organization](#) on page 11.

To add a resource:

1. Open the Actifio Desktop to the **Domain Manager**.
2. Click **Organizations** from the navigation pane.
3. Select the Organization.
4. Click the **Ownership** tab.
5. Click the sub-tab for the type of resource you want to add. The tab lists the current resources of that class.
6. Select the resource(s) by checking the appropriate check-box.
 - o Use the All option to select all the resources at once.
 - o Use the Search option to find a specific resource.
7. Click **Save** to update the changes.

Note: When you create a resource of any kind, you add it to one of your organizations.

The screenshot shows the 'Ownership' tab in the Actifio Domain Manager. The 'Templates' sub-tab is selected, displaying a list of templates. The 'Select' dropdown is set to 'All, None'. A search bar is located at the top right of the list. The list contains the following templates:

Select	Template Name
<input type="checkbox"/>	DAR
<input checked="" type="checkbox"/>	Enterprise
<input type="checkbox"/>	New Template3
<input type="checkbox"/>	ONRAMP
<input type="checkbox"/>	Standard
<input type="checkbox"/>	directDedup
<input type="checkbox"/>	policythruAPI
<input type="checkbox"/>	snap_dedup

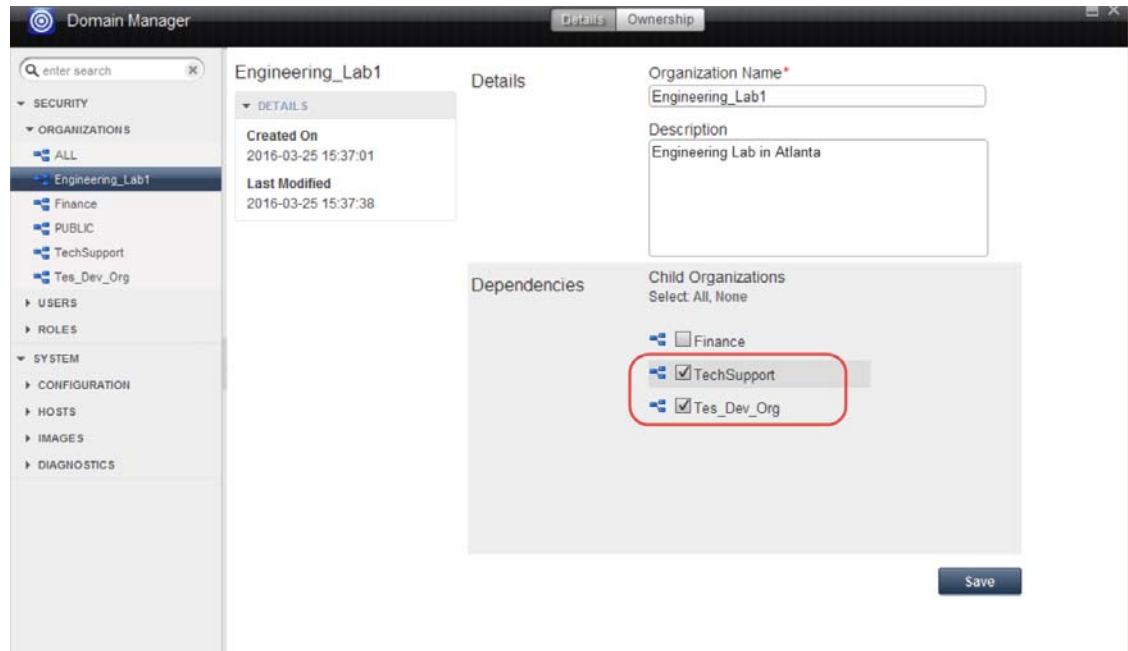
A 'Save' button is located at the bottom right of the interface.

Adding a Template

Adding a Dependent Organization

To add an organization as a dependent to an existing organization:

1. Open the Actifio Desktop to the **Domain Manager**.
2. Click **Organizations** from the navigation pane.
3. Select the Organization that will be parent to the dependent organization.
4. Click the **Details** tab.
5. Select the check-box corresponding to the dependent organization in **Dependencies**.
6. Click **Save** to update the changes.



Adding an Organization as a Dependent of Another Organization

Viewing Resources

You can view an organization's resources and any dependent organizations:

[Viewing Dependent Organizations](#) on page 12

[Viewing Other Organization Resources](#) on page 13

Viewing Dependent Organizations

To view an organization's dependent organizations:

1. Open the Actifio Desktop to the **Domain Manager**.
2. Click **Organizations** from the navigation pane.
3. Select the Organization.
4. Click the **Details** tab. Checkbox(es) corresponding to dependent organization(s) are checked in the Dependencies:

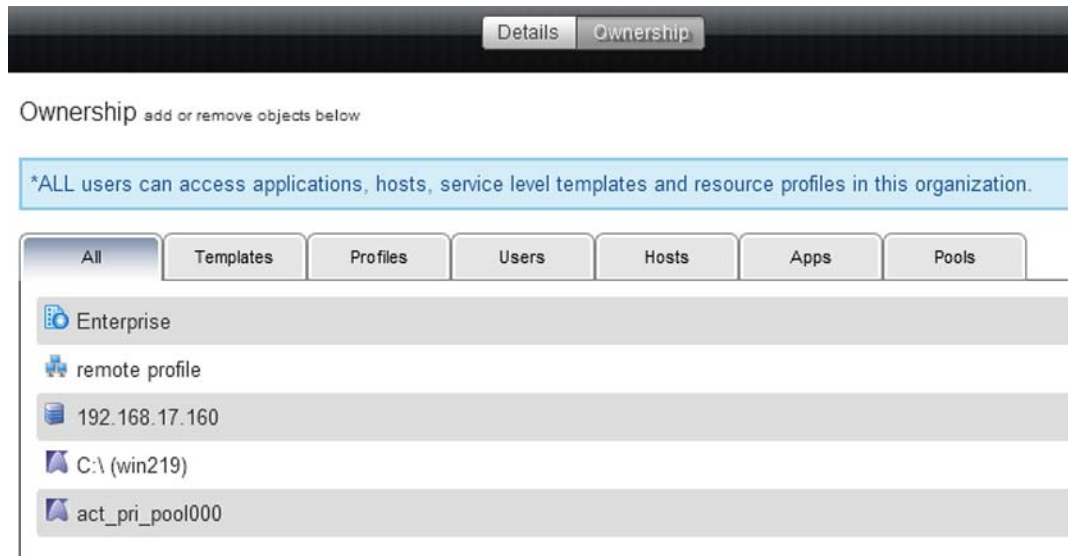
The screenshot shows the Actifio Domain Manager interface. At the top, there are two tabs: 'Details' (highlighted with a red box) and 'Ownership'. Below the tabs, the main content area is divided into two sections: 'Details' and 'Dependencies'. The 'Details' section shows the 'Organization Name' as 'Organization_4' and the 'Description' as 'New organization description'. The 'Dependencies' section is highlighted with a red box and contains a 'Child Organizations' section with the text 'Select: All, None'. Below this, there are three organizations listed with checkboxes: 'HQ_Operations', 'Organization_2' (which is selected), and 'Organization_3'. A 'Save' button is located at the bottom right of the interface.

Viewing Dependent Organizations

Viewing Other Organization Resources

To view other (non-dependent organization) resources of an organization:

1. Open the Actifio Desktop to the **Domain Manager**.
2. Click **Organizations** from the navigation pane.
3. Select the Organization.
4. Click the **Ownership** tab and the **All** sub-tab. The page displays existing resources of selected organization; this includes templates, resource profiles, users, hosts, applications, and storage pools:



Viewing Resources of an Organization

Removing Resources from an Organization

To remove a resource from an organization:

Dependent Organizations

To remove a dependent organization of an organization:

1. Open the Actifio Desktop to the **Domain Manager**.
2. Click **Organizations** from the navigation pane.
3. Select the Organization.
4. Click the **Details** tab.
5. Uncheck the organization(s) in **Dependencies**.
6. Click **Save** to update the changes.

Other Resources

To remove other resources of an organization

1. Open the Actifio Desktop to the **Domain Manager**.
2. Click **Organizations** from the navigation pane.
3. Select the Organization.
4. Click the **Ownership** tab.
5. Select the desired resource subtab. The page displays all the existing resources.
6. Uncheck the appropriate resource(s).
7. Click **Save** to update the changes.

3 Creating and Managing Users

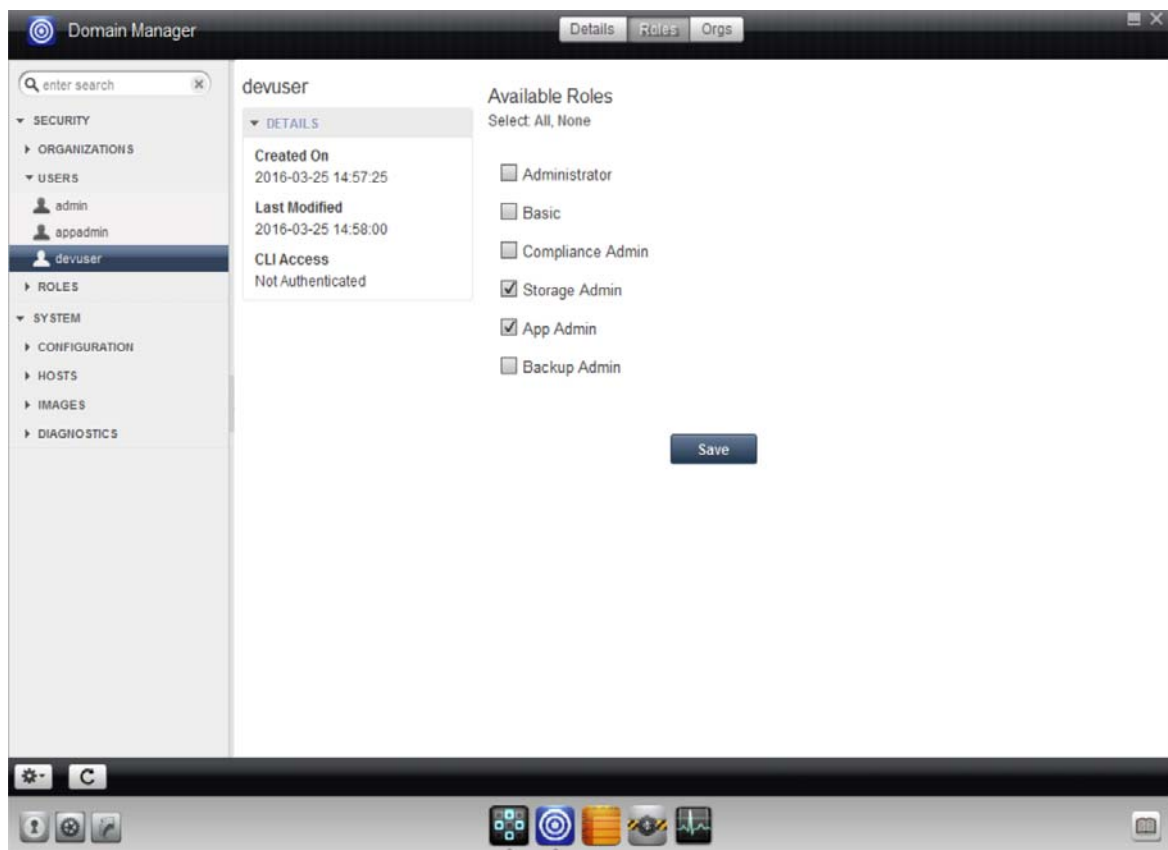
An Actifio appliance allows you to create and manage multiple Actifio Desktop users. This chapter describes:

[Creating a User](#) on page 16

[Assigning Roles to a User](#) on page 17

[Adding CLI Access for a User](#) on page 18

[Deleting a User](#) on page 19



Users And Roles

Note: You can use a single existing LDAP (Lightweight Directory Access Protocol) server for Actifio Desktop user authentication and to map LDAP groups to Actifio appliance roles. See **Configuring Resources and Settings With the Domain Manager** in the Actifio Documentation Library for details on how to configure your Actifio appliance to use LDAP server authentication.

Creating a User

You can create users with varying levels of access rights. These users use Actifio Desktop and the Actifio appliances.

To create a new user:

1. Open the Actifio Desktop to the **Domain Manager**.
2. From the Service Menu, select **New User...**
3. Enter the desired user name in **Username**. The username field is case sensitive.
4. Enter the password in **Password** and **Confirm Password** fields.
5. Enter the name of the user in **First** and **Last**.
6. Enter the email address of the user in **Email**.
7. Select the user's time zone from **Timezone**.
8. Specify in **Access to sensitive data** if this user should have the necessary rights to see image data that is flagged as being "sensitive." An image can be marked sensitive explicitly by an administrator. It also inherits the application's sensitivity attribute. Its intent is to restrict access to data that has been marked as sensitive. You mark data as sensitive in the Restore window of the Application Manager. You can use LiveClone workflows to scrub sensitive information and then mount the scrubbed data.

When **On**, this user is able to see sensitive backup image data. When **Off**, this user can see only nonsensitive image data.

Note: See [Summary of Rights Required to Perform Operations in an Actifio Appliance](#) on page 26 for additional information.

9. Optionally, you can enter some notes in **Comments**.
10. Click **Save**.

The screenshot shows the 'Domain Manager' application window. On the left is a sidebar with a search bar and a navigation menu under 'SECURITY' containing 'ORGANIZATIONS', 'USERS', 'ROLES', and 'SYSTEM'. The 'USERS' section is expanded, showing a list of users: 'admin', 'appadmin', 'devuser', and 'newuser4'. The 'newuser4' user is selected. The main area displays the 'DETAILS' for 'newuser4', including 'Created On' (2016-03-25 15:46:58) and 'CLI Access' (Not Authenticated). To the right is the 'Login' form for 'newuser4'. It includes fields for 'Username' (pre-filled with 'newuser4'), 'Password', and 'Confirm Password'. Below these are fields for 'Name' (split into 'First' and 'Last'), 'Contact' (Email), 'Location', and 'Time Zone' (set to 'America/New_York'). There are radio buttons for 'Access to sensitive data' (On/Off), with 'Off' selected. At the bottom is a 'Notes' section with a 'Comments' text area and a 'Save' button.

Creating a New User

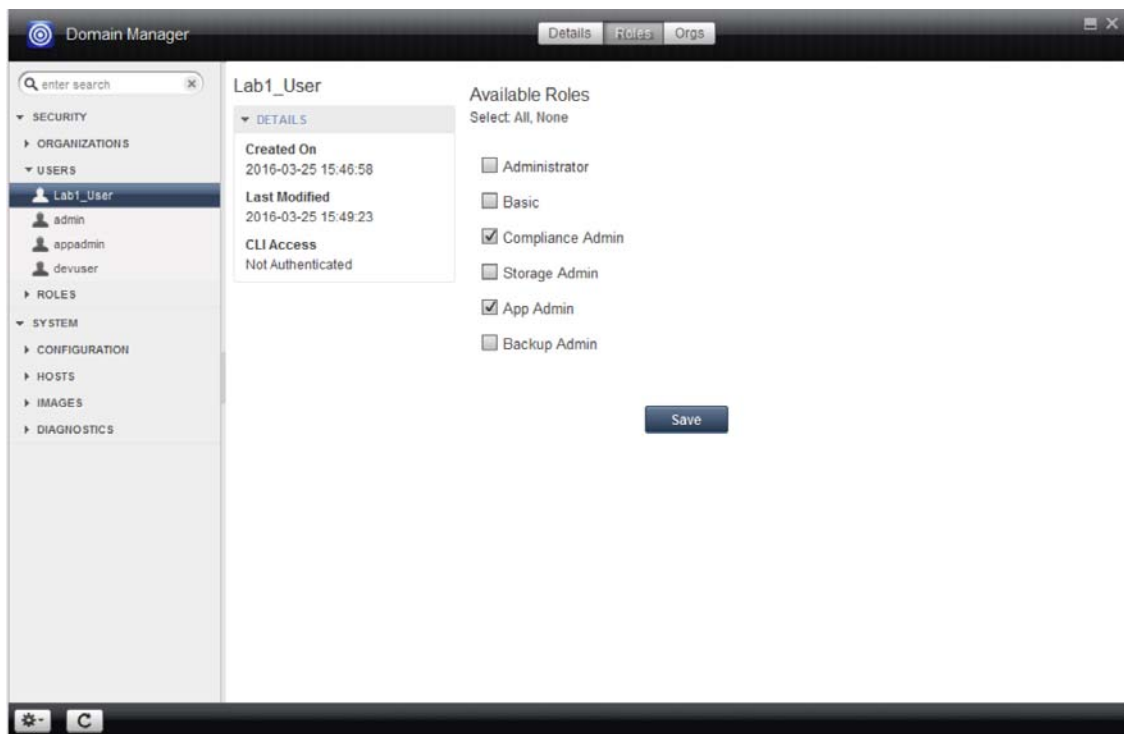
Assigning Roles to a User

Assign roles to the users in an Actifio appliance so that they have authorization to execute certain functions.

Note: To create a role, see [Creating and Managing Roles](#) on page 21.

To assign one or more roles to a user:

1. Open the Actifio Desktop to the **Domain Manager**.
2. In the navigation pane, under Users, select the user.
3. Select the **Roles** tab. The available roles are listed in the display pane.
4. Check the roles that you would like to assign to the user.
5. Click **Save**.



Assigning Roles to a User

Adding CLI Access for a User

The Actifio appliance command line interface (CLI) is a set of commands for performing the same functions from a command-line that you can perform from the Actifio Desktop. It is detailed in the **Actifio CLI Reference** included in the Actifio Documentation Library.

To grant CLI access to a user via the Actifio Desktop, you must upload the SSH public key of the user of the Actifio appliance who requires CLI access. The public/private key pair identifies a single user uniquely. The Actifio Desktop administrator should enter one public key for each user with CLI access. For more information about generating the SSH public/private key pair, configuring a host to run an SSH client, and starting an SSH session, refer to the **Actifio CLI Reference**.

To add CLI access for a user:

1. Open the saved public key file in a text editor.
2. Open the Actifio Desktop to the **Domain Manager**.
3. Select the user to whom you want to grant access from **Security > Users**.
4. From the service menu, click **Add CLI Access**.

The screenshot displays the Actifio Domain Manager web interface. On the left, a sidebar menu shows the navigation structure: SECURITY (ORGANIZATIONS, USERS, ROLES), and SYSTEM. The 'USERS' section is expanded, listing 'Lab1_User', 'admin', 'appadmin', and 'devuser'. The 'devuser' entry is selected. A context menu is open over the 'devuser' entry, with 'Add CLI Access' highlighted. The main panel shows the details for 'devuser', including a 'DETAILS' tab with creation and modification timestamps, and a 'CLI Access' status of 'Not Authenticated'. To the right, a form for user details is visible, with fields for Username (devuser), Password, Confirm Password, Name (First/Last), Email, Location, Time Zone (America/New_York), and a checkbox for 'Access to sensitive data' (set to On). A 'Save' button is at the bottom right of the form.

- Copy the public key content from the text editor and paste it into the **Public Key** field.

Note: Be sure to copy the entire public key from the text editor. Do not include additional spaces.

- Click **Submit**.

Add CLI Access For User

Actifio CLI access utilizes Open SSH keys for CLI access to Actifio CDS. You will need to install an SSH client (if one is not present) onto any relevant workstation or server that requires CLI access to Actifio. Then follow the directions below:

- Open the public key file and copy the contents of that key file (so that it can be pasted). For Unix Operating systems you will typically find this file in `~/.ssh/id_rsa.pub`
- Paste the public key into the Public Key window below.
- CLI access is achieved by connecting by SSH (using port 22) to the Actifio Appliance IP address. For example `admin@actifio.com`. For Windows applications such as PuTTY you will need to specify the location of the private key file.
- For a more detailed explanation of the functionality and a guide to CLI commands, consult the CLI Users Guide which can be found in the Actifio Documentation Library. This library can be accessed by pointing your web browser to `https://<appliance name or IP address>`

Public Key*

ssh-rsa
AAAAB3NzaC1yc2EAAAABJQAAAAQEAoCA5QDtgjgmx+B0K75Bw/5DEqtg9
LwZ5FmhwJbt+whhKUbhNfLylj7LILnw6xwKr+I2yEYt18Sc0rt1MOxsoQY7
ybr0jsYQ5bNd+Jk2o6fwuQL3ATMwj42M+S9DxeL8USyLj0jYQaCM2CLBiv
9t0fQkOu8+zqY3xHBfSFO9K0G8X0fhwSHTY1nzyp2j3+z75a0SinZ3QCR0
gqPxPzhXFEK+1SQV/m9/NS8DYaVCxsI9ZLR6IF0YcGKvqTgTzyIRNgAEm
5M0fUaNcmJ+LVXHA6PkqUkyEJ32BTRAB6ND75OfUwPLypbCMQmQb
aud4Zv1+JxgtFndg6zq6mQ== rsa-key-20151105

Note: Before adding CLI Access, ensure the selected user has CLI Usage permissions via the Role that this user is assigned to.

Submit

Note: For CLI user login, ensure that the role associated with the user has the CLI Usage right. Refer to [Creating a Role and its Rights](#) on page 22.

Deleting a User

You need System Manage rights to delete a user.

To delete a user:

- Open the Actifio Desktop to the **Domain Manager**.
- Select and right-click on the user that you want to remove from **Security > Users**.
- Click **Delete**.
- Click **OK** in the confirmation dialog.

4 Creating and Managing Roles

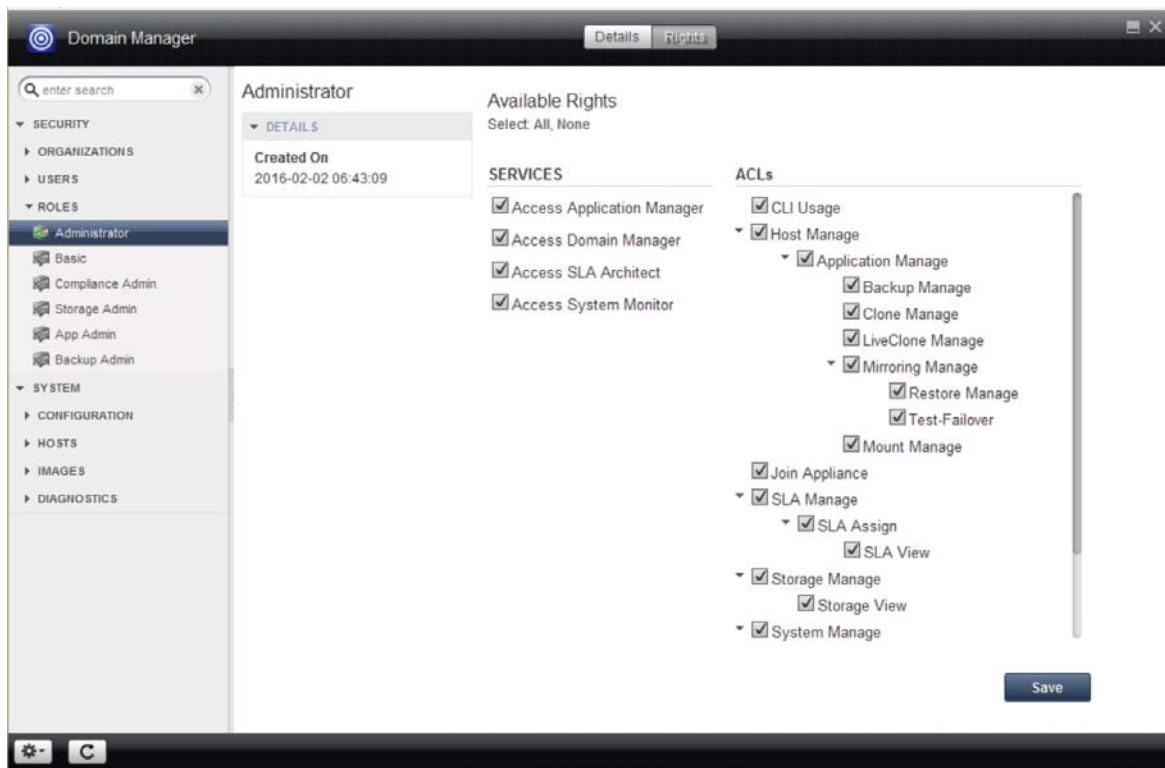
An Actifio appliance allows you to create and manage multiple users, roles, and organizations. This chapter describes how to create and manage various types of roles. Roles correlate with groups of users that share similar responsibilities and have similar requirements when using the Actifio Desktop. Permissions are assigned to roles to grant or deny access to various features.

This chapter contains:

[Creating a Role and its Rights](#) on page 22

[Deleting a Role](#) on page 25

[Summary of Rights Required to Perform Operations in an Actifio Appliance](#) on page 26



The Rights That Can Be Included in a Role

Assigning a Role to a User

To assign one or more roles to a user, see [Assigning Roles to a User](#) on page 17.

Creating a Role and its Rights

You can create a role and assign rights to the role. Based on the rights assigned to a user's role, the user is constrained from using or viewing the various components of Actifio Desktop.

This section describes:

[Creating a Role](#) on page 22

[About Administrative Rights](#) on page 23

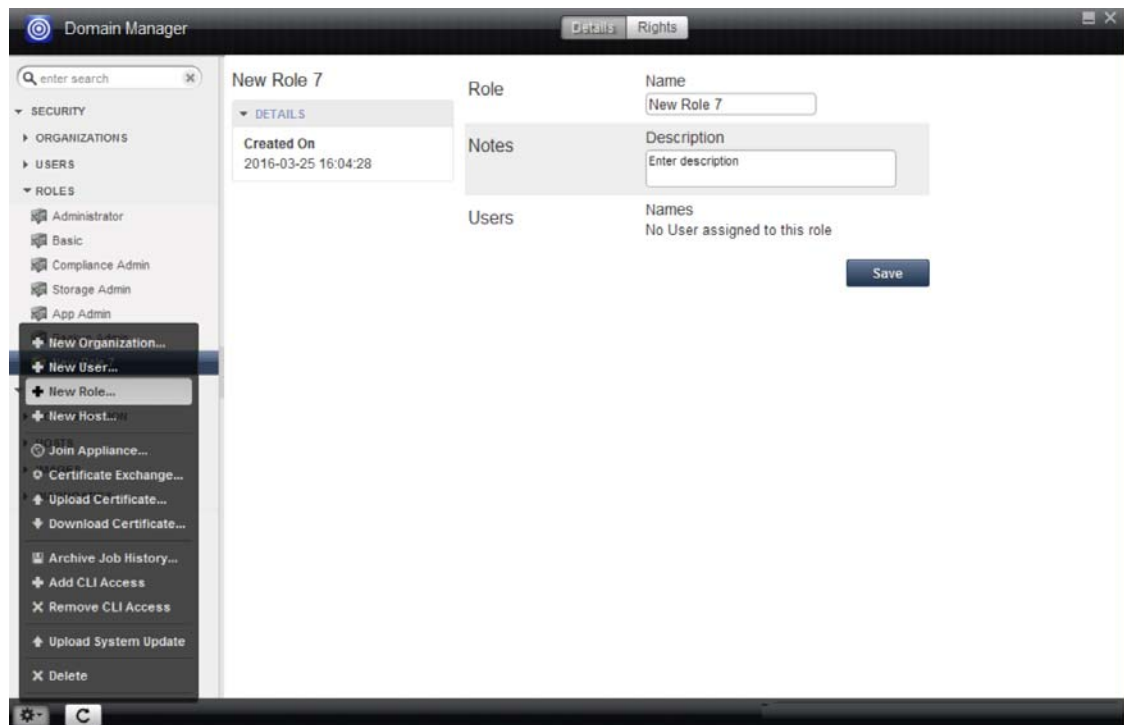
[Assigning Rights to a Role](#) on page 25

See [Summary of Rights Required to Perform Operations in an Actifio Appliance](#) on page 26 for rights that can be assigned to a role.

Creating a Role

To create a role:

1. Open the Actifio Desktop to the **Domain Manager**.
2. From the Service Menu, click **New Role....**
3. Enter a name for the role in **Name**.
4. Enter a description in **Description**.
5. Click **Save**.



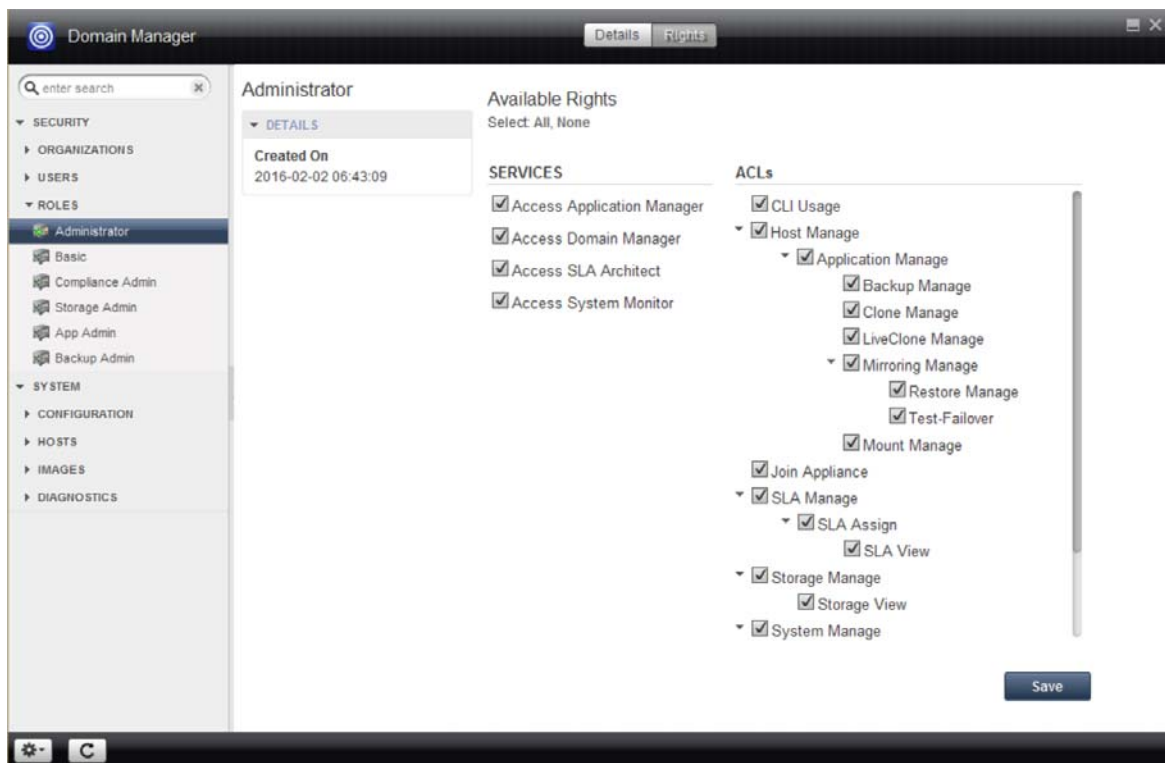
Creating a New Role

About Administrative Rights

There are two classes of rights:

- Access to an entire Actifio Desktop service. You can uncheck a service, or select it and then restrict it to some degree through the Access Control Levels (ACLs).
- ACLs provide additional rights and permit you to restrict some of the rights available within the Actifio Desktop services. ACLs are detailed in [Actifio Desktop Access Control Levels \(ACLs\)](#) on page 24.

Note: Assigning a right automatically assigns all subordinate rights. You can uncheck specific subordinate rights associated with a role.



The Rights That Can Be Included in a Role

Actifio Desktop Access Control Levels (ACLs)

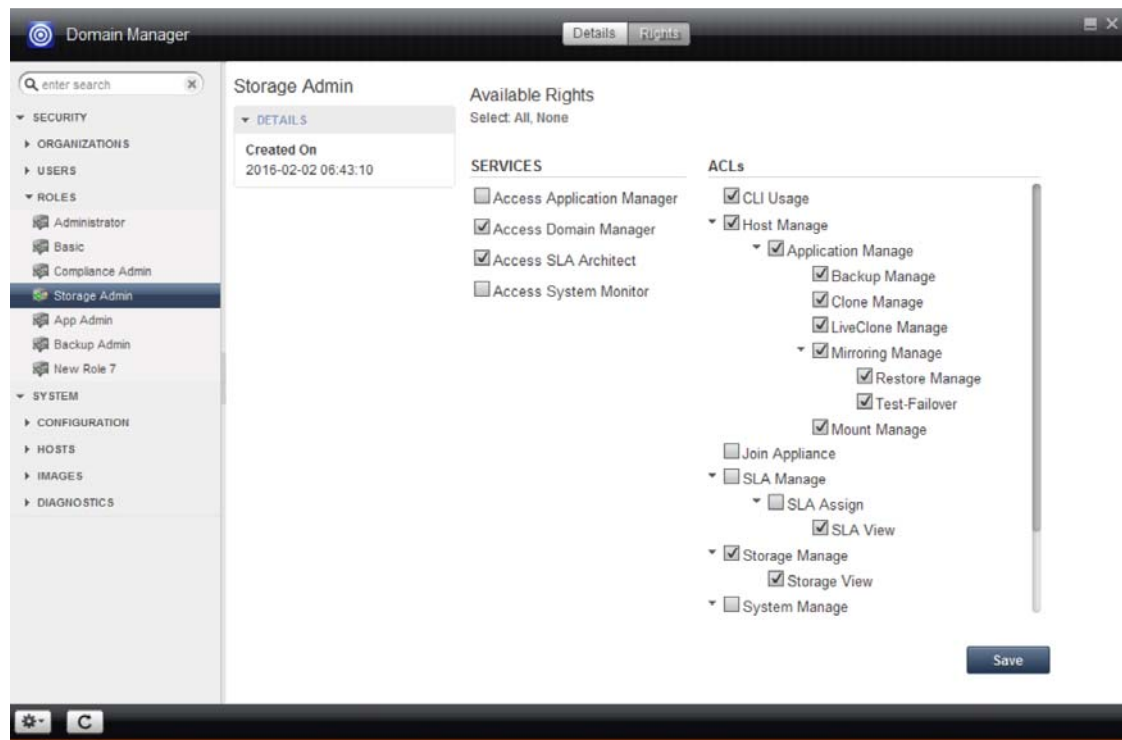
Rights	Description
CLI Usage	To use the Actifio Command-Line Interface.
Host Manage	To create/modify/delete hosts, to add virtual machines, to restore, clone, mount, unmount, and delete backup images.
Application Manage	To create/modify/delete/view groups and consistency groups, to restore, clone, mount, unmount, and delete backup images, to run an on-demand backup, and to export templates.
Backup Manage	To perform backup operations: Backup Now, Expire, and Modify Expiration.
Clone Manage	To create a cloned image.
LiveClone Manage	To manage LiveClone images.
Mirroring Manage	To perform Failover, Syncback, Cleanup, Failback, and Delete operations for a Dedup-Async or StreamSnap replication image.
Restore Manage	To restore an image.
Test-Failover	To perform Test Failover and Delete Test Failover for a Dedup-Async or StreamSnap image.
Mount Manage	To Mount Image, Unmount Image, Re-Mount Image, and Delete Image.
Join Appliance	To join two Actifio appliances for copy data replication.
SLA Manage	To create/modify/delete/view and assign policy templates and resource profiles.
SLA Assign	To assign pre-configured policy templates and resource profiles to applications.
SLA View	To view policy templates and resource profiles.
Storage Manage	To add/remove/view storage and to add/remove/ view disk-pools.
Storage View	To view the storage and disk pool configuration.
System Manage	To manage all Actifio appliance configurations, including users, roles, and organizations.
System View	To view Actifio appliance configuration information.
Workflow Manage	To add/remove/view Workflows. A Workflow can be scheduled or initiated on-demand.
Workflow Run	To allow a user to run a Workflow. This ACL right does not include the right for that user to also manage a Workflow. This level of permission is required in a Test/Dev environment.
Workflow View	To view scheduled Workflows.

Assigning Rights to a Role

For a list of rights that can be assigned to a role, see [Summary of Rights Required to Perform Operations in an Actifio Appliance](#) on page 26.

To assign rights to a role:

1. Open the Actifio Desktop to the **Domain Manager**.
2. Select the Role from the navigation pane.
3. Click **Rights** from the Service Menu.
4. Select the rights using the check boxes.
5. Click **Save**.



Assigning Rights to a Role

Deleting a Role

You need System Manage rights to delete a role.

To delete a role:

1. Open the Actifio Desktop to the **Domain Manager**.
2. Select and right-click on the role that you want to remove from **Security > Roles**.
3. Click **Delete**.
4. Click **OK** in the confirmation dialog.

Summary of Rights Required to Perform Operations in an Actifio Appliance

By default, each Actifio appliance user can view all applications in their associated organization(s) irrespective of the specified sensitivity defined for this user through the **Access to Sensitive Data** option (see [Creating a User](#) on page 16). However, the user will be restricted from performing certain operations on applications if their ACL right does not match the sensitivity level of the application.

An Actifio appliance user requires a specified privilege to see the backup images that match their specific data access levels as defined through the **Access to Sensitive Data** option and their specified ACL rights.

- Users with a data access level set to sensitive (**Access to Sensitive Data** set to **On**) are able to see sensitive and nonsensitive backup images.
- Users with a data access level set to nonsensitive (**Access to Sensitive Data** set to **Off**) can see only nonsensitive backup images.

The following table summarizes the different operations that a user can perform in the Actifio appliance and the necessary rights required in a role to be able to perform those operations.

Note: Any change to sensitive applications is only allowed by a user with the Access to Sensitive Data option turned On ([Creating a User](#) on page 16), for operations such as Delete Application, Mark Application Ignored, Set/Unset Application Class.

Rights Required to Perform Actifio Appliance Operations

Operation	Required ACL Right	Comments
Create User	System Manage	_____
Create Role	System Manage	_____
Create Organization	System Manage	_____
Add Host	Host Manage	_____
Discover App	Host Manage	_____
Discover VMs	Host Manage	_____
New Application	Application Manage	_____
New NAS Dataset	Application Manage	_____
New Consistency Group	Application Manage	_____
New Group	Application Manage or System Manage	_____
Delete Application	Application Manage	_____

Operation	Required ACL Right	Comments
Mark Application as Sensitive or Nonsensitive	Application Manage	Only users with Access to Sensitive Data set to On can mark application sensitivity in the Application Manager.
Mark Application Ignored	Application Manage	Only users with Access to Sensitive Data set to On can mark application as ignored in the Application Manager.
Set/Unset Application Class	Application Manage	Only users with Access to Sensitive Data set to On can set or unset an application class in the Application Manager.
Join Actifio Appliances	Join Appliance	_____
Protect/Unprotect Application	SLA Assign	_____
Run Now Backup Image	Backup Manage	For sensitive applications, a user's ACL right must match the application sensitivity.
Mount Backup Image	Mount Manage	A user's ACL rights must match the image sensitivity.
Clone Backup Image	Clone Manage	A user's ACL rights must match the image sensitivity.
LiveClone Backup Image	LiveClone Manage	A user's ACL rights must match the image sensitivity.
Expire Backup Image	Backup Manage	A user's ACL rights must match the image sensitivity.
Restore Backup Image	Mirroring Manage or Restore Manage	A user's ACL rights must match the image sensitivity.
Mark Backup Image as Sensitive or Nonsensitive	Application Manage	Only users with Access to Sensitive Data set to On can mark image sensitivity in the Application Manager.
Unmount Backup Image	Mount Manage	_____
Unmount & Delete Backup Image	Mount Manage	_____
Prep-mount Backup Image	LiveClone Manage	A user's ACL rights must match the image sensitivity.
Prep-unmount Backup Image	LiveClone Manage	_____
LiveClone Refresh	LiveClone Manage	_____

Operation	Required ACL Right	Comments
LiveClone Delete	LiveClone Manage	_____
Workflow Create	Workflow Manage	_____
Workflow Edit	Workflow Manage	_____
Workflow Delete	Workflow Manage	_____
Workflow Disable	Workflow Manage	_____
Workflow Run Now (Scrub)	Workflow Run and LiveClone Manage	A user can view only the images that their ACL rights allow them to see.
Workflow Run Now (Mount)	Workflow Run and Mount Manage	A user can view only the images that their ACL rights allow them to see.

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