6.0

Luna Imaging Inc.

LUNA

LUNA 6.0

A Guide to LUNA

Second Edition 6.0.1

Luna Imaging Inc.

LUNA

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2702 Media Center Drive
los angeles, california 90065
phone 800.452.LUNA (4562) • fax .323.221.2846
www.lunaimaging.com

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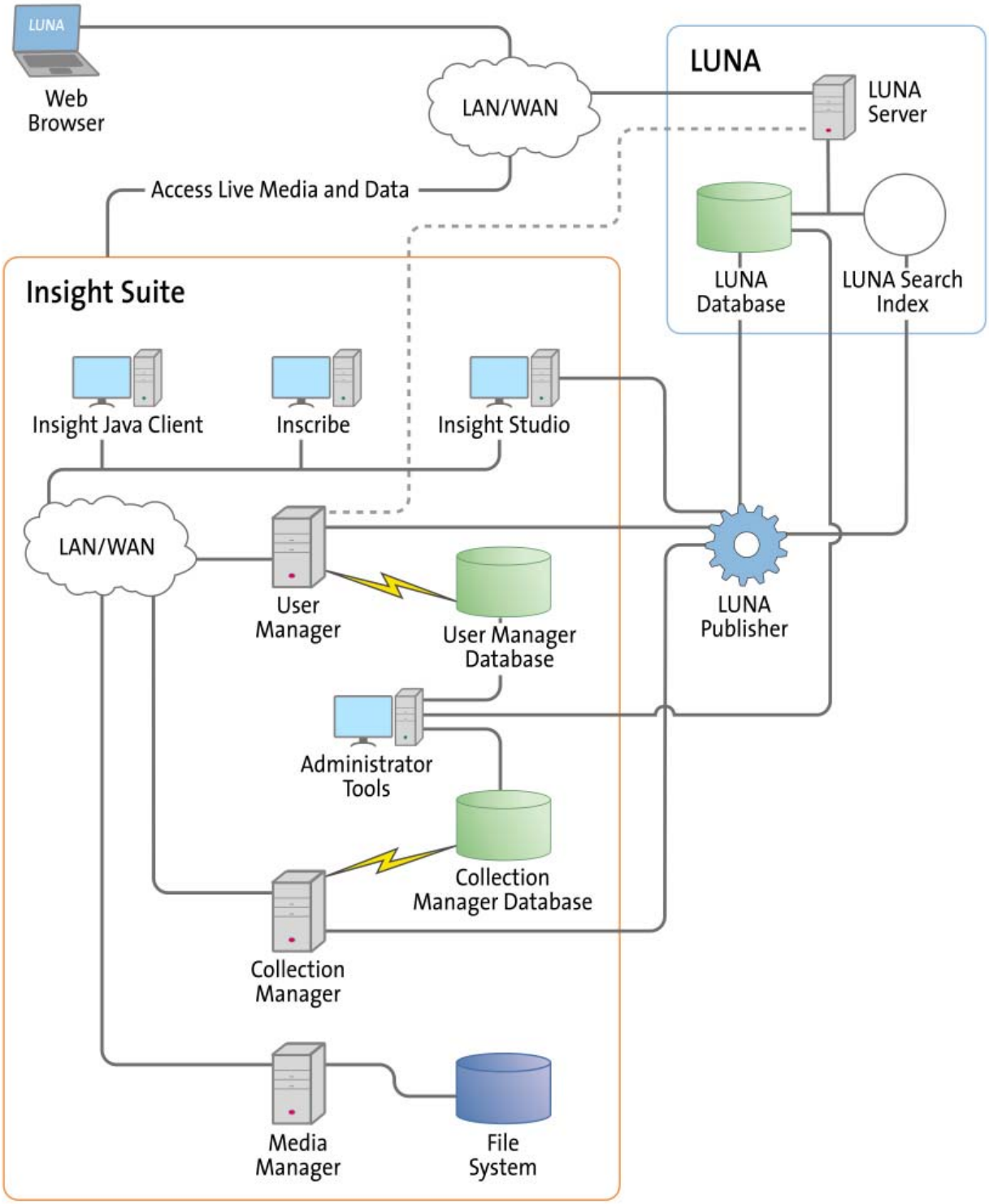
Welcome to LUNA

This document is intended mainly for system administrators and secondarily for LUNA administrators to provide context and information on how to Install & Configure LUNA. Readers are expected to have a basic knowledge of the UNIX / Windows Operating Systems, Microsoft SQL Server / Oracle Databases / MySQL, and Apache Tomcat and Jboss JSP Server.

Figure 1: Insight and LUNA Component Diagram



LUNA Components are as follows:

LUNA Publisher: Schedules and is used to pull data out of the Insight Collection Manager, storing it in an XML format. The LUNA Publisher then converts the archive data into a Lucene index for each collection and merges all Collection indexes into one single search index. Once merged, the LUNA Server is placed into a maintenance mode and the newly merged index replaces the existing one.

LUNA: LUNA is the dynamic web based front end to Insight collections. With LUNA, users can perform simple keyword searches as well as more complex structured queries, and control how they view, browse, and organize their results to create groups and presentations. LUNA includes the Web 2.0 tools your users are demanding which enable them to save and share their work by linking and embedding any view, image, group, or presentation.

LUNA Server: The LUNA Server is the server side component behind the LUNA client. Collections published to LUNA are indexed on the LUNA Server. The LUNA Publisher will automatically update the indexes based upon a schedule that you define.

Insight's Components are as follows:

User Manager: The User Manager functions as a single point of entry for all Insight Collections and Personal Insight Managers. It consolidates the functions of authentication and authorization for all shared resources within Insight and for LUNA. The User Manager can integrate with an existing security infrastructure if an institution already has a single sign-on solution in place. The User Manager also provides access to resources such as shared folders and groups within Insight. LUNA enables end-user management of viewing preferences, and storage folders for media groups and presentations.

Collection Manager: The Insight Collection Manager provides a common interface between client requests and the underlying data repository. Each Collection Manager may contain multiple collections and Virtual Collections of consistent or heterogeneous structures. The Collection Manager also functions as a broker between the clients (the Insight Java Client, Inscribe data editor, Studio (LUNA Publisher and XML Gateway) and the underlying database, coordinating search requests, and data updates.

Personal Insight Manager: The Personal Insight Manager is a specialized version of the Collection Manager which supports the creation of Personal Collections with the Insight Java Client.

Media Manager: The Insight Media Manager is built around a basic JSP Server, and manages access to Insight's media content. The Media Manager supports direct upload of processed content and also manages access to the JPEG2000 wavelet images that power Insight's Image Workspace.

Java Client: The Insight Java Client provides an additional interface for searching, viewing, and managing images, audio, video, and other media. The Java Client also provides end-user collection building tools with Personal Insight and the ability to create Virtual Collections – a subset of content with different access levels.

Inscribe®: The optional Inscribe data editor is an end-user cataloging tool designed to support all of an institution's cataloging needs. The Inscribe data editor includes built-in support for controlled vocabularies, date and numeric validation, and complex data relationships. Inscribe also supports an institution's workflow requirements by facilitating the publishing and review processes.

Studio: Studio provides collection administrators with the tools to build and manage collections. Studio is a wizard-based tool supporting batch processing of media, batch import of metadata, user management, catalog template creation and management, and other basic functions. The LUNA Publisher is accessible from within the Studio client.

Administrator Tools: The Insight Administrator Tools allow a collection administrator to dynamically manage collections. Components of the Insight Administrator Tools include tools for batch media processing, user and resource management, data indexing, and configuring of the search and user interface.

JPEG2000 Wavelet Encoder: The Administrator Tools and Studio include a JPEG2000 Wavelet Encoder. Wavelet encoded images improve performance when accessing large images, reduce storage requirements, and optimize network usage on image delivery.

Insight XML Gateway: The XML Gateway provides a web-services based interface for searching and retrieving content stored within Insight collections. The XML Gateway is middleware which allows backend interaction between Insight and other XML aware applications.

What's new in Insight v6.0

- **LUNA** a dynamic web based front end to Insight collections

Select Features of **LUNA**

User Features

- Web-based – no download necessary; not an offline client, we are online!
- Enhanced searching capabilities with faceted results display and category searching
- Filtered search categories – Who, What, Where, When – for improved results
- Simple keyword and advanced searching
- Dynamic presentations with convenient export options
- Web 2.0 concepts like embedding, book marking, and linking – link *to* anything (image detail, group, slide, presentation) and embed anything *from* LUNA
- Integration with Flickr for adding personal content to LUNA Media Groups for use in slide shows and presentations
- User defined viewing preferences (thumbnail resolution, sort order, items per page, help tips)
- Instantly cross-collection search across all LUNA Community Commons content
- Integrated context specific help with Flash tutorials

Administrative Features

- End-users can perform their own account administration
- Customize your institutional identity with CSS themes
- Expanded content distribution via the LUNA Community Commons
- Easily accessible context specific Help and Tips that will reduce end user training requirements
- Ability to generate ad revenue with optional placement of Google ads
- Integrated Google Analytics for detailed usage reports
- Integrated Google Site-Map and search engine optimization to help promote your collection on the Web

New Insight Feature

- Support IPTC and EXIF text data

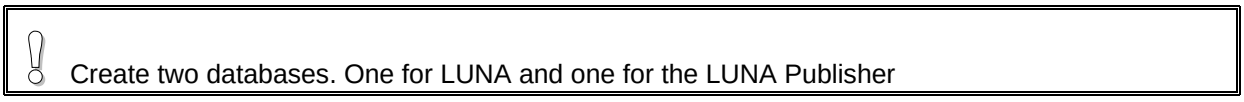
Installing LUNA

Introduction

LUNA is an additive component to Insight. You will need to have a working Insight installation and collection(s) to make full use of LUNA.

LUNA can be installed into any of the supported Insight configurations with the exception of Oracle 8. Add the necessary database and ensure you have a minimum of 512MB of free memory, or the recommended 1500MB of free memory, on your server.

There are two major components to LUNA, the LUNA Publisher and LUNA. Each item requires a database. Follow the same guidelines described in the Insight installation to prepare these databases. Both databases will only store user generated information and will not store contents of the collections. This means the storage requirements for these databases are fairly small. 100MB should be plenty of space.



Running the Installer

The LUNA installer, like the Insight installer, requires a GUI. If you are installing on Linux or Solaris, you will need X Windows to run the installer or other GUI interface.

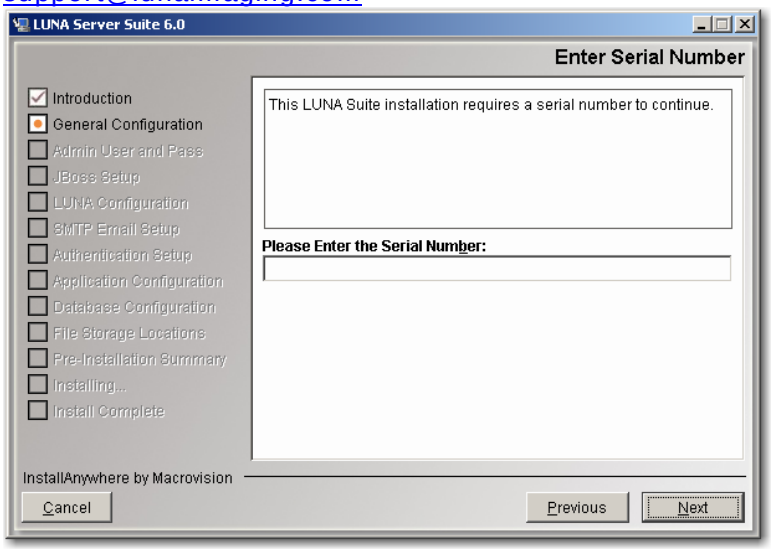
Start the LUNA installer on your system and follow the prompts described in the following section.

Serial Number

The install requires a Serial Number to continue the installation process.

As a licensed institution, you should have been issued one. If not, contact our support department to obtain a valid licensed Serial Number.

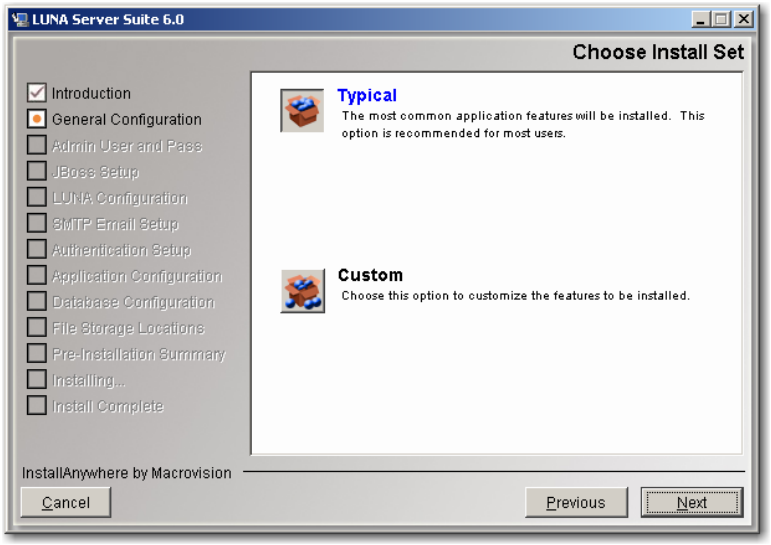
support@lunaimaging.com



Choose Install Set

For the Initial installation, you will generally choose Typical. This will include all system components.

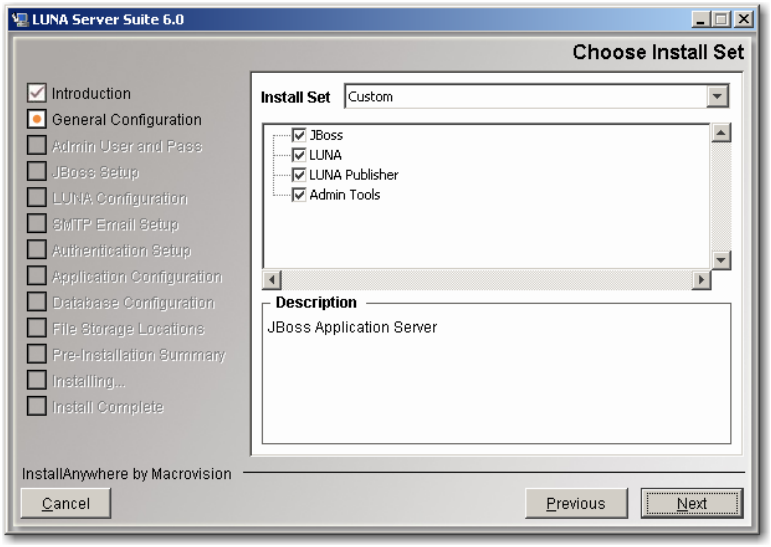
- LUNA
- LUNA Publisher
- JBoss
- Administrator Tools



Custom Install

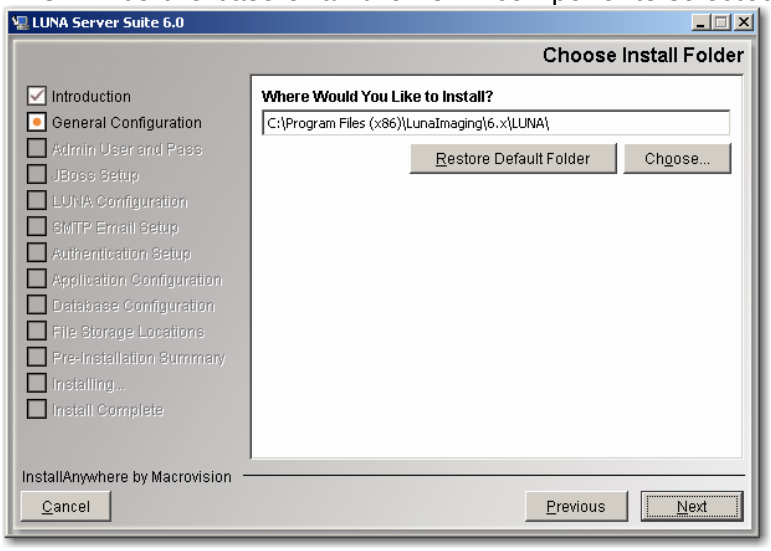
For subsequent installations, you may wish to choose to install a specific component. You can choose to install any of the following system components.

- LUNA
- LUNA Publisher
- JBoss
- Administrator Tools



Install Location

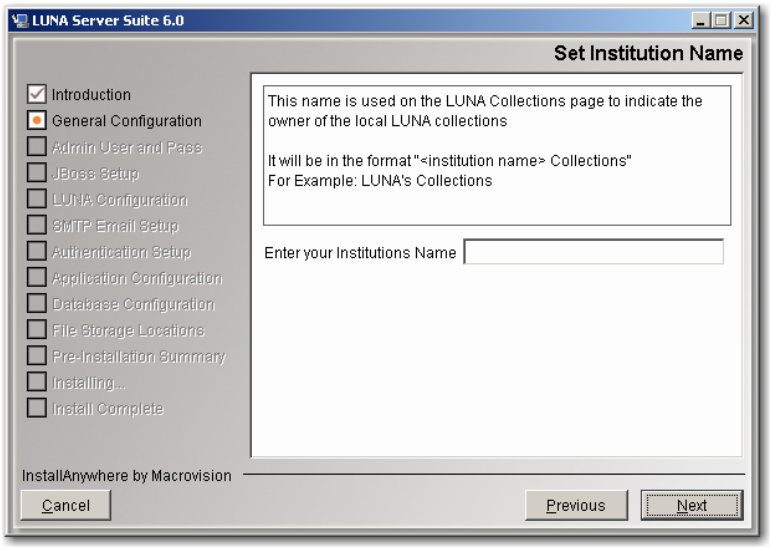
This will be the base of all the LUNA components selected.



Institution Name

This name is used on the LUNA Collections page to indicate the owner of the local LUNA Collections.

The format is:
<institution name> Collections



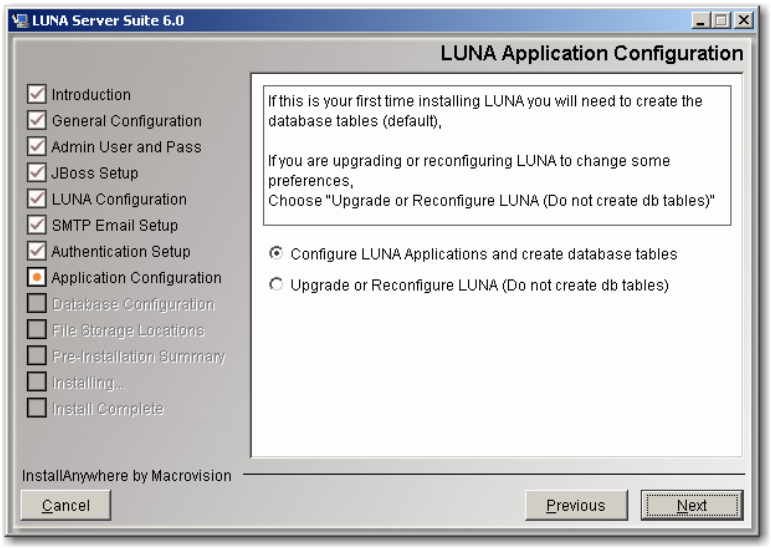
In the example below, it is set to **Luna**.

LUNA Application Configuration

If this is the first time you install LUNA, then you must choose the first option “Configure LUNA Applications and create database tables”.

If this is a subsequent installation and you just want to **upgrade** or reconfigure the LUNA application without deleting any user generated information, then choose “Upgrade or Reconfigure LUNA (Do not create db tables)”.

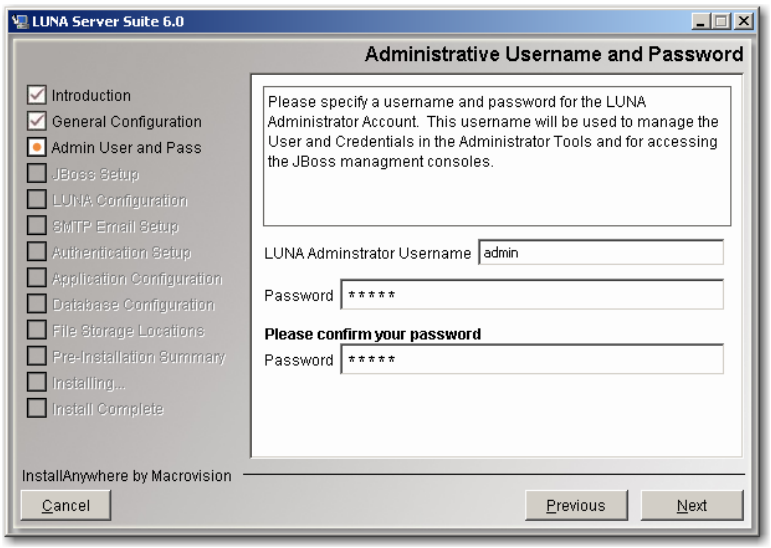
LUNA and the LUNA Publisher are deployed using Java WAR files. This option will just configure the WAR file and deploy it.



Specifying an Administrative Username and Password for LUNA

LUNA requires you to specify an administrative username and password. This username and password will be used for authentication within the Administrator Tools and for accessing the JBoss management consoles. Users with this username and password have access to tools that can manage LUNA collection access and Credentials and modify LUNA's configuration, so be careful who it is shared with.

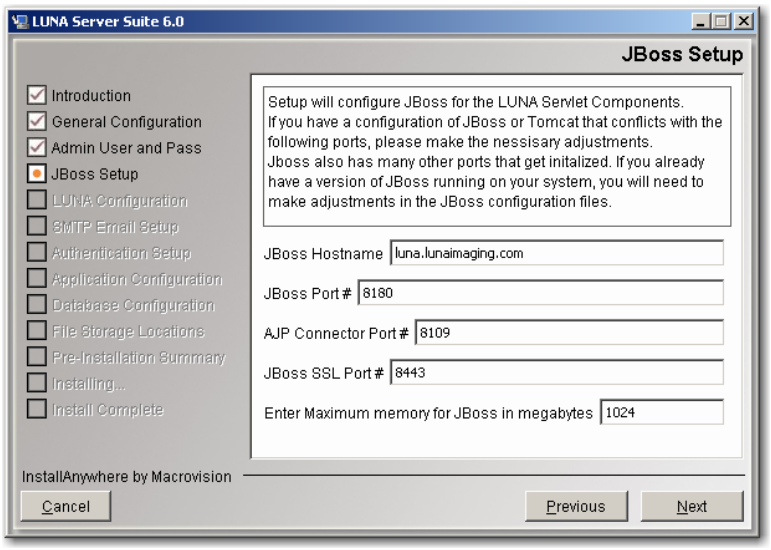
NOTE: This password is not encrypted. Do not use your network or system administrator password.



JBoss Setup

The LUNA application and LUNA Publisher are served via JBoss. The installation will take care of all major configurations with JBoss but you may choose to select different ports for the application to run on.

Note: You are also choosing how much memory to allocate to the application. Make sure this much memory is freely available or the server will have out of memory errors.



LUNA Configuration

This section allows you to choose how the LUNA application is generally configured.

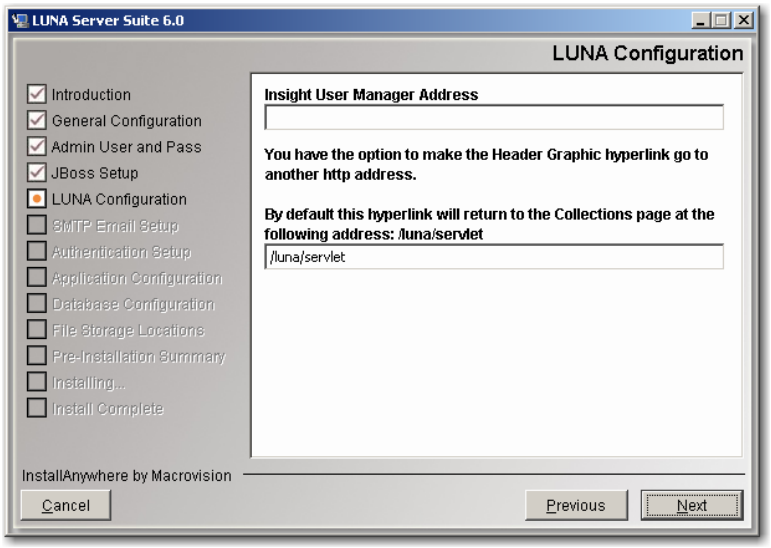
Insight User Manager Address

LUNA can use your existing Insight User Manager to grant access to your collection resources. You do not need to create the accounts. As a user is logged in, the username is passed to the LUNA system (not including the password) and the user is granted access to the same collections that they had access to in Insight.

Header Graphic Hyperlink

You have the option to make a link in the Header Graphic go to a specific http address. By default the address will return to the LUNA collections Page (/luna/servlet).

This feature is useful if you want to create a launch page for the LUNA application and from LUNA the user can return to the launch page.



Enable Google ads

If you would like to place ads on the content of your site to generate potential revenue to support your collections, just check the ads box. The ads will be placed on the right side of the application. Go to http://www.google.com/intl/en/ads/ to sign up for an AdSense account. You will be prompted later in the installation to provide additional information specific to your AdSense account.

Enable End User Registration

LUNA has built in end user self management. If you would like your end users to manage their own accounts (allowing them to create Media Groups, presentations and search External Media), select this item. Later in the configuration you will be asked for your email server information for outgoing messages.

Access LUNA Community Commons Collections

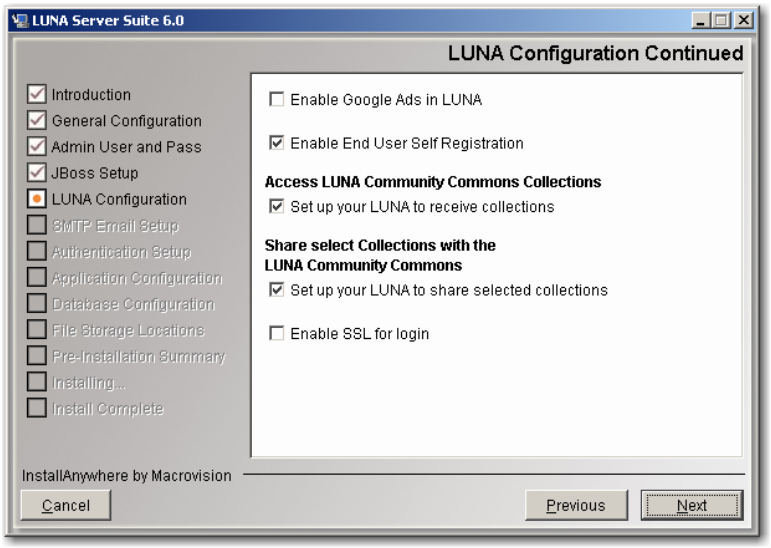
Selecting this option indicates you want to receive free collections from the LUNA Community Commons. You will be required to provide additional information later in the installation process.

Share Select Collections with the LUNA Community Commons

Selecting this option indicates you want to share some of your collections with the LUNA community. You will be required to provide additional information later in the installation process.

Enable SSL for Login

To prepare your system to support SSL during login, select this item. You will also need to install a certificate to implement the SSL login capabilities.



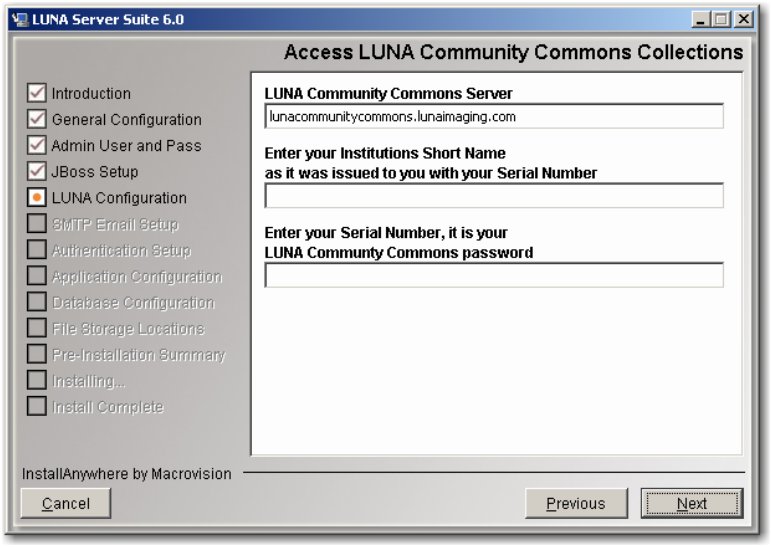
Access LUNA Community Commons Collections

LUNA Community Commons Server Address

To access the LUNA Community Commons, you may need to enter the appropriate Community Commons server address (the default will work unless told otherwise).

Enter your Institution's Short Name and your Serial Number

When you were issued your Serial Number, you were also issued a Short Name for your institution. This Short Name and your Serial Number are your keys to access the LUNA Community Commons collections.



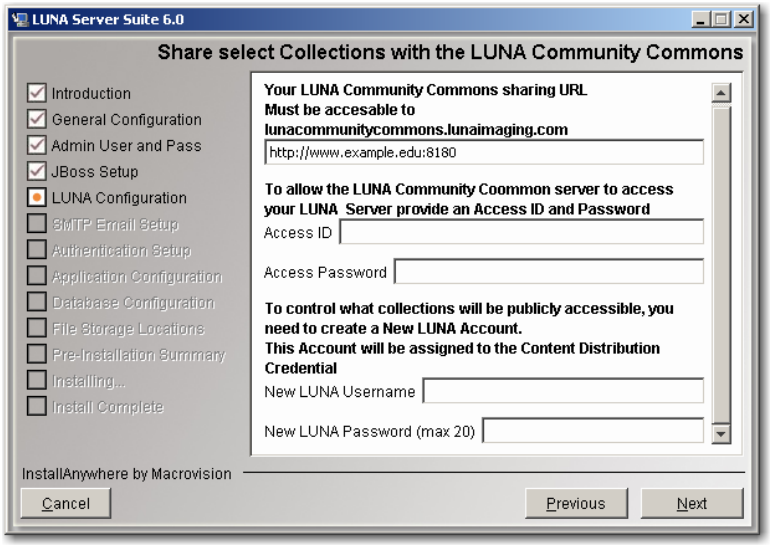
Share Select Collections with the LUNA Community Commons

With LUNA you can share some of your collections with the larger LUNA Community.

1. Enter Your LUNA Community Commons sharing URL.

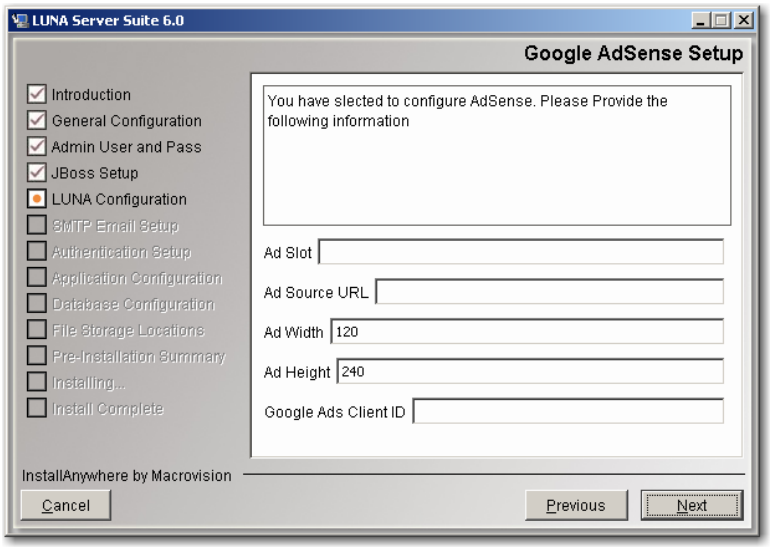
- This is the address to your LUNA server. The LUNA Community Commons Server will use this address to retrieve the collections you decide to share.

2. Enter Your Access ID and Access Password
   - This will be used by the LUNA Community Commons server to gain access to your selected LUNA collections.
   - By default this has been set to your institution's Short Name and Serial Number.
3. Create a new LUNA account
   - This account will be used to define what collections are being shared with the LUNA Community.
   - Once you have collections in LUNA, you can use the Admin Tools to assign collections to the Content Distribution Credential.



Google AdSense Configuration

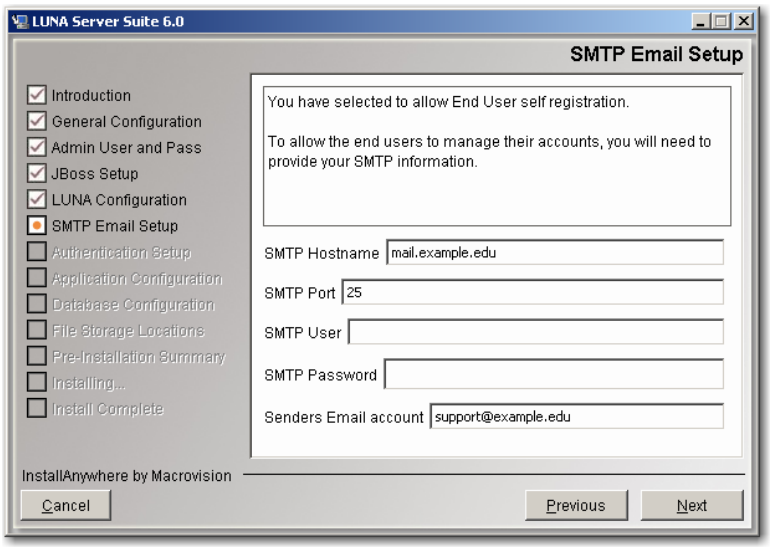
If you are seeing this screen, then you have selected to enable Google ads on your site. You will need to provide specific information to enable this feature properly. During your account setup in AdSense, you were provided information appropriate to this feature.



SMTP Mail Server Setup

If you selected end user registration, then fill in the following form.

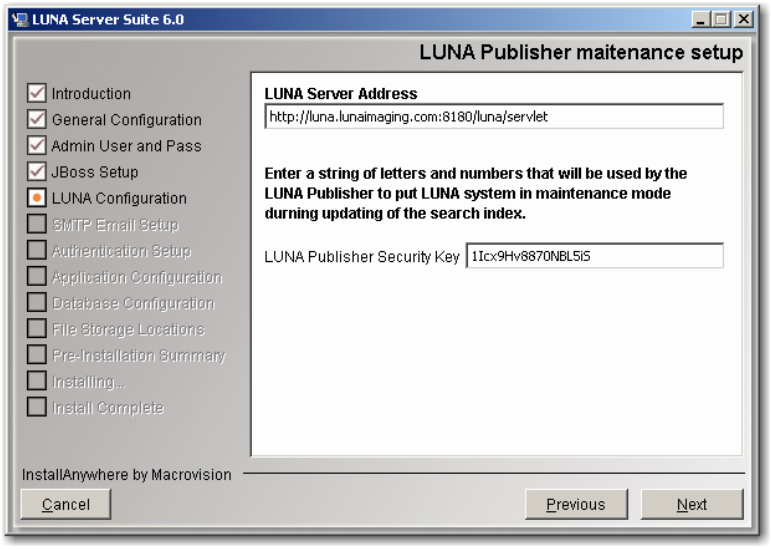
- Your email domain address
- SMTP Port Number
- SMTP User (optional)
- SMTP Password (optional)
- Senders email account (the account end users will respond to if necessary)



LUNA Publisher Maintenance Setup

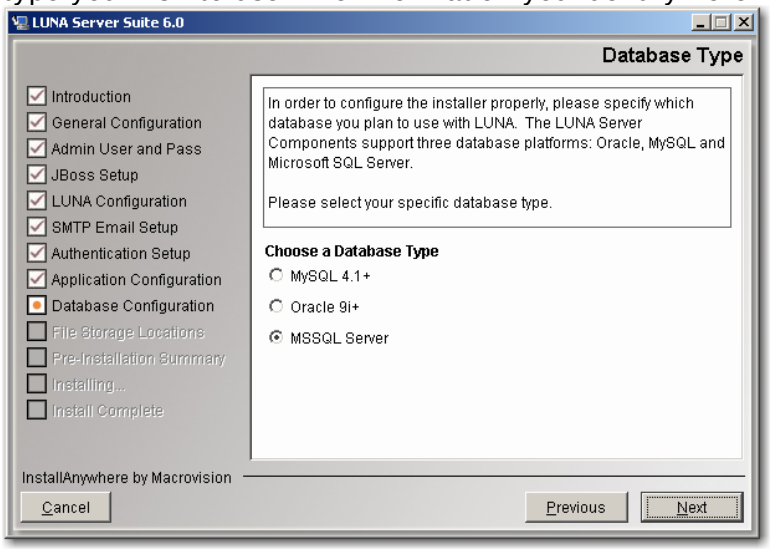
The information supplied in this panel is used when LUNA needs to be placed into a maintenance mode so that you can perform server adjustments or the LUNA Publisher needs to replace the Lucene index with an updated version.

The maintenance mode is invoked via a URL with a security key. We suggest making the security key obscure by using only web friendly characters and letters.



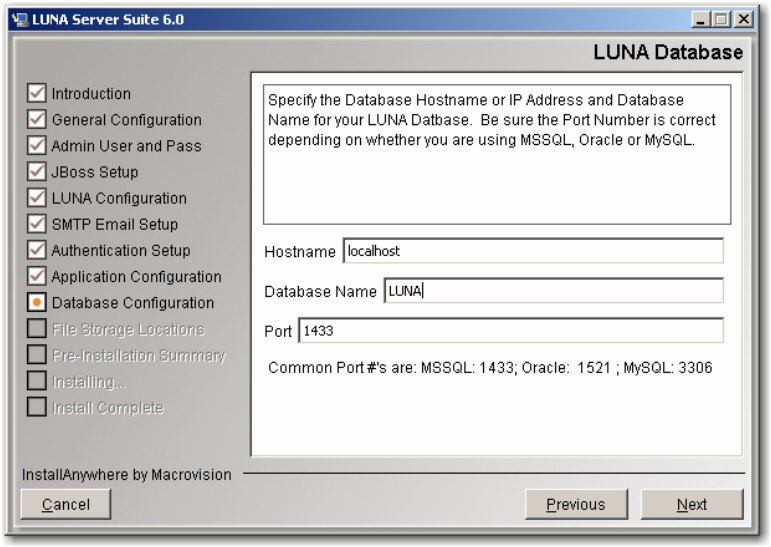
Choosing a Database Type

The installer is designed to connect to your database server and to create database tables, fields and indexes for your LUNA Server and LUNA Publisher. Please choose the database type you wish to use. The information you identify here will be used to configure LUNA.



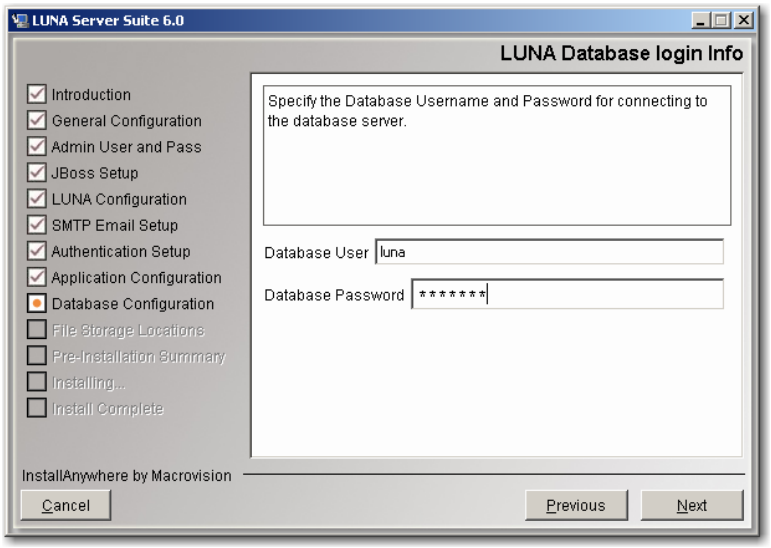
LUNA Database Information

Provide the information necessary to connect to your database, including the hostname, database name (SID Name if you're using Oracle), and database port. The installer will offer default values based on information provided earlier. Review the defaults (and change them as needed).



Database Username and Password

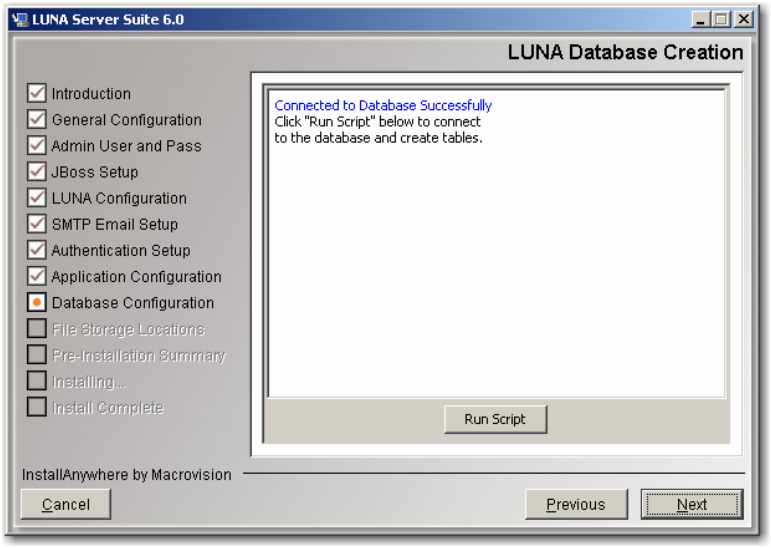
Please specify the username and password for your database. This is the username and password that LUNA should use to connect to the database.



WARNING: the installer will **DROP ALL LUNA TABLES** once it has connected, so be sure that you are not installing over an existing version of LUNA. (The installer will warn you again before it actually drops any tables.)

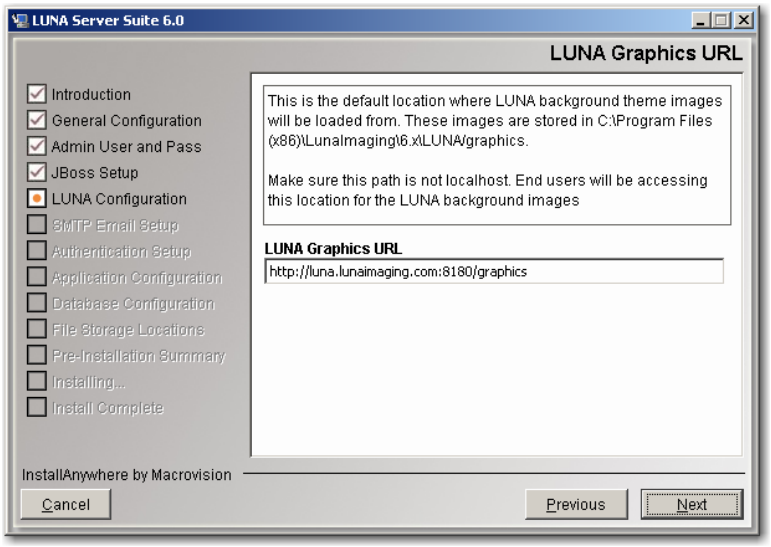
Creating the LUNA Database

Once the installer has tested the connection, it will present you with the database creation script window. Click “Run Script” to create the LUNA tables and indexes.



LUNA Graphics URL

The LUNA Graphics URL is used to access LUNA theme header graphics. Just make sure this URL is externally accessible from the installed machine. Do not use localhost or any other internal domain unless you know for sure the content will not be used outside of your institution.



LUNA Publisher Database Information

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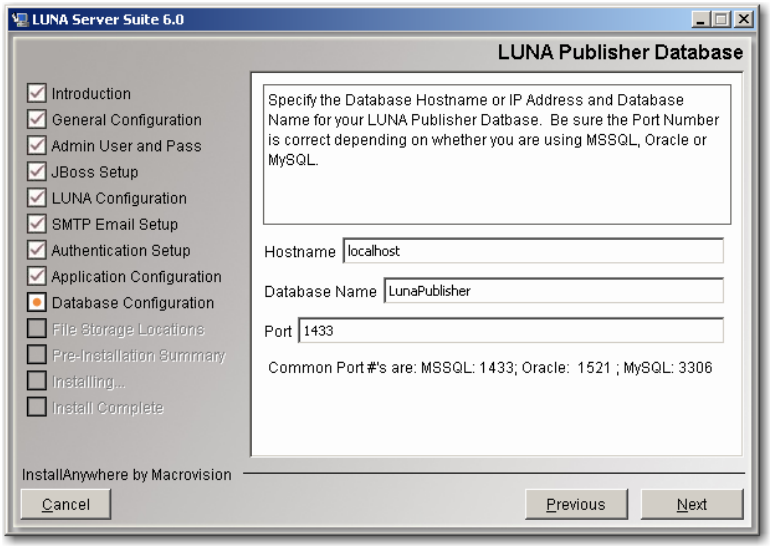
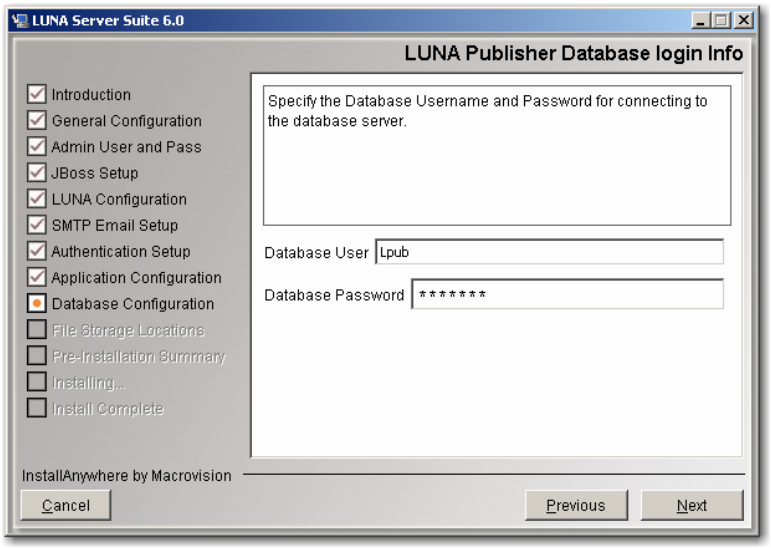


Database Username and Password

Please specify the username and password for your database. This is the username and password that LUNA Publisher should use to connect to the database.



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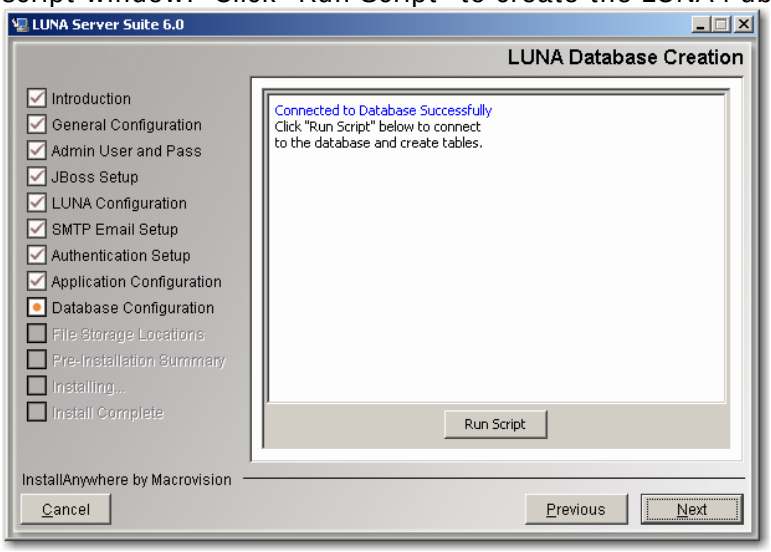
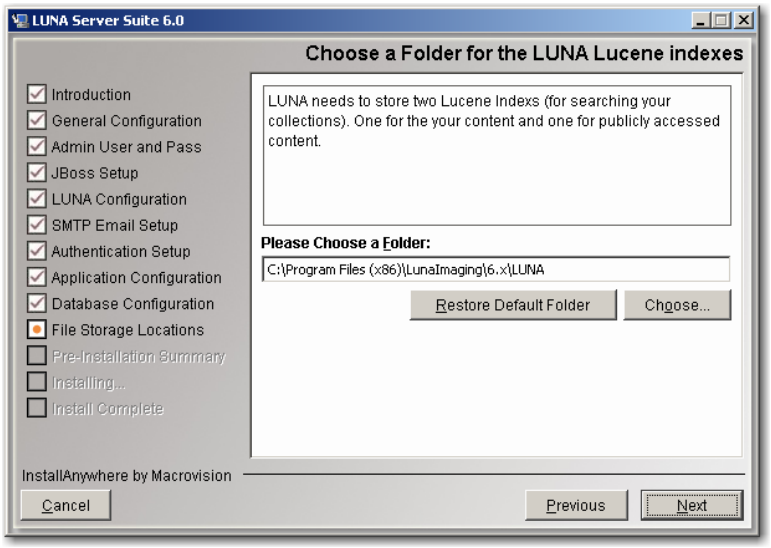
Creating the LUNA Publisher Database

Once the installer has tested the connection, it will present you with the database creation script window. Click “Run Script” to create the LUNA Publisher tables and indexes.



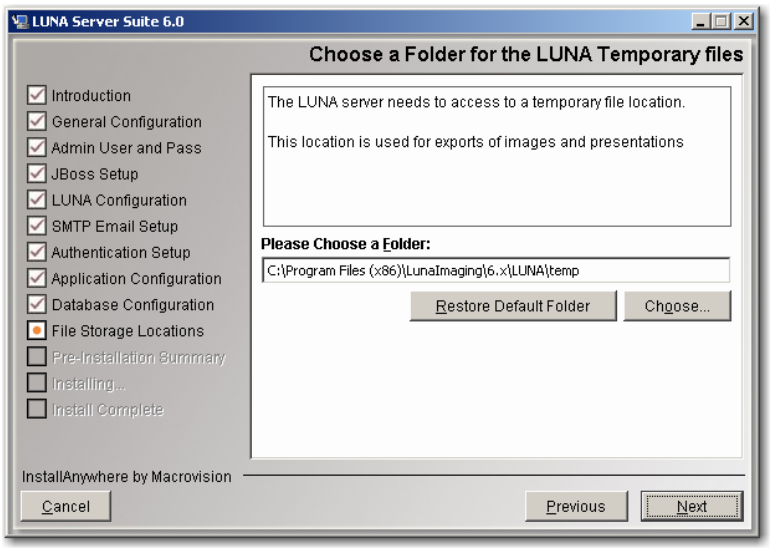
Lucene Index Folders

LUNA uses Lucene to search for content in your collections. These indexes can add up to hundreds of megabytes depending on the content you have in your collections. 160,000 objects takes about 400MB but this is entirely dependent on the size of your collections that you are accessing. So choose an appropriate location that can grow with your collections.



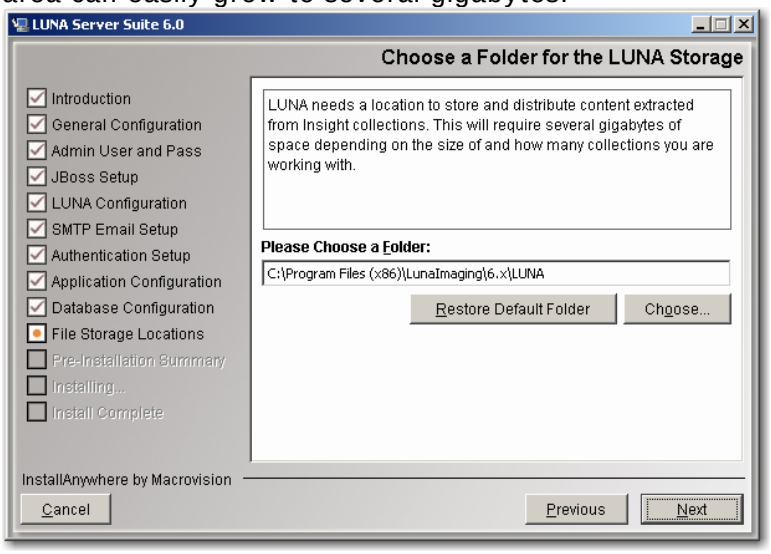
LUNA Temp Files Location

During the use of LUNA, content is exported and this location is used to store that information temporarily.



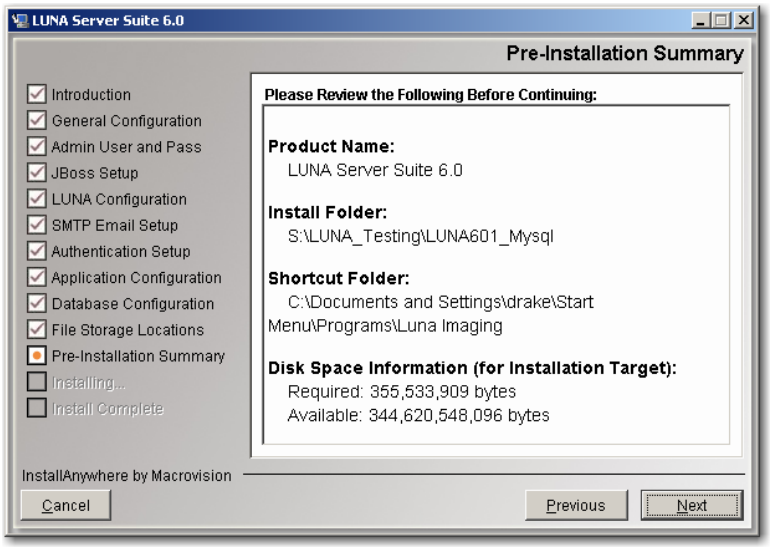
LUNA Storage

LUNA and the LUNA Publisher need space to store information extracted from Insight collections and a place to create the Lucene indexes during the publishing process. LUNA also uses this area for content distribution with the LUNA Community Commons Server. This area can easily grow to several gigabytes.

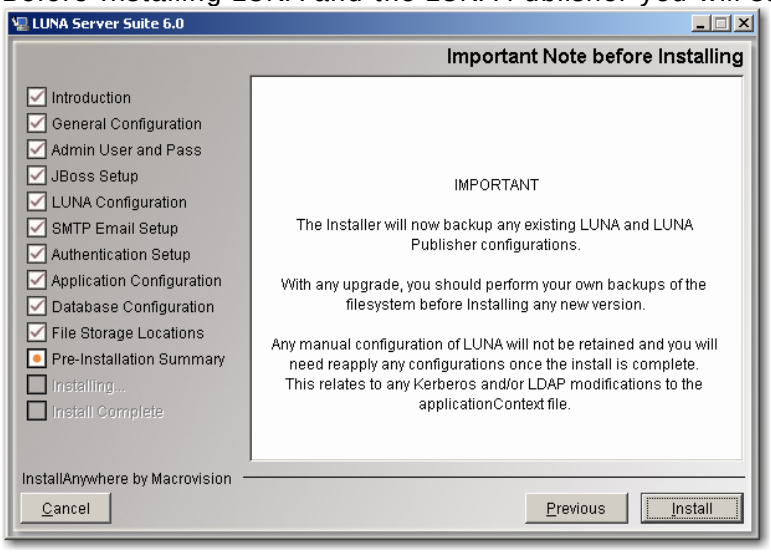


Start the Install Process

This may take several minutes depending on the server speed and how you are accessing the installer.



Before Installing LUNA and the LUNA Publisher you will see this **IMPORTANT** message.



******IMPORTANT NOTE for users of LDAP and/or Kerberos configurations******

All manual configurations that you have made to the applicationContext.xml file for LUNA will be not be retained. This new install will need to be edited to reestablish these configurations.

Your existing LUNA and LUNA Publisher will be backed up to the luna_backups in your install directory within a dated zip file.

Starting LUNA and the LUNA Publisher

You can start these two servers by starting the JBoss server.

Go to:
<Install Directory>/jboss/bin

You can use the standard jboss supplied run scripts run.bat or on Linux and Solaris you can start the servers by executing the run.sh script. If you want to run this in the background we suggest running:
nohup ./run.sh &

We have also supplied you with our standard java service wrapper version for starting and stopping the application:
start_jboss.bat on windows and start_jboss.sh for Linux and Solaris will start jboss in a console mode.

If you would like to start jboss as a service on windows, we have supplied you with the install_as_service.bat file

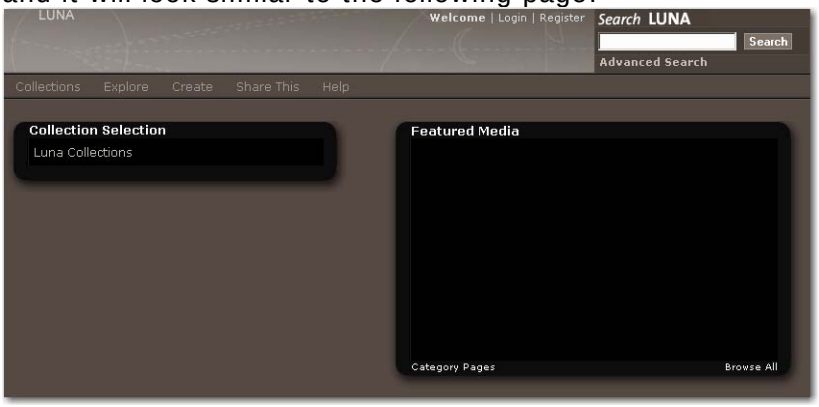
If you want to run jboss in the background using the java service wrapper on Linux or Solaris, you can start it with:
./jboss_service.sh start

The script has the following options:
console | start | stop | restart | status

Once started go to http://www.example.edu:8180/

You should see something like the following:

The LUNA application will now be available at http://www.example.edu:8180/luna/servlet and it will look similar to the following page:



Adding Insight Content to LUNA

Introduction

It's fairly easy to add Insight content to LUNA but first you should know what LUNA is and what it is not.

LUNA is a search interface and a place to work with media content. LUNA is not the repository of the content. LUNA allows the end user to select, organize and make use of various image and media content.

Currently, in version 6.0, LUNA supports two kinds of source content. You can access and use Insight content and you can access and use content from Flickr.

Insight Studio is used to prepare content for LUNA using the LUNA Publisher and the LUNA theme header graphic creator. These tools are available from the Insight Studio Task Menu.

Note: You do not need to upgrade your Insight Collection Managers to work with LUNA. LUNA will work with all 5.x Insight Collection Managers.

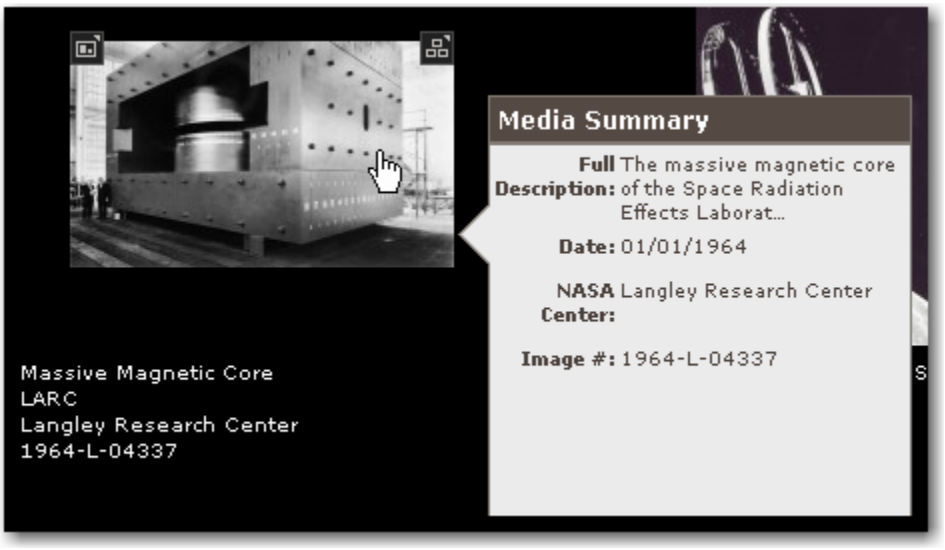
The only suggested adjustment you need to make is to update the language bundles on the Insight User Manager. This will ensure that you see the correct text labels while using the 6.0 Insight Studio tool.

The LUNA Publisher

So what does it mean to add content to LUNA? Well it's pretty simple; it means extracting all descriptive data from Insight and placing it into an index that LUNA uses to search. It also sets up and provides LUNA with information to connect to the Insight collection.

The LUNA Publisher is the tool you use to do the following.

- Schedule when and how often the LUNA collection index is updated from the Insight Collection.
- Setup LUNA specific characteristics
    - Choose Media Summary fields (provides additional roll-over information).



- Choose the Who, What, When, Where fields used for filtering search results.

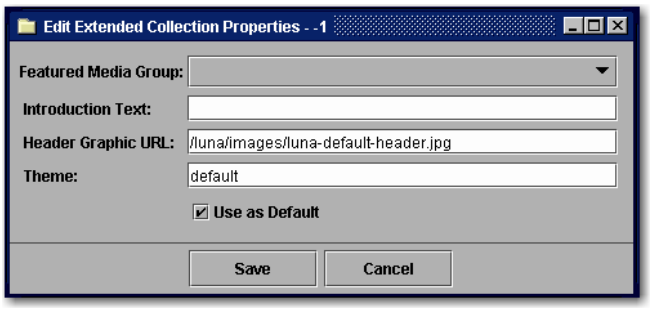
- Identify the URL to the LUNA header graphic.

- Using the Merge and Load Task, all individual collection indexes are merged into a single index and then loaded into the live LUNA system.

LUNA Theme Header Graphic

The LUNA theme header graphic is the background that shows up at the top of the LUNA interface and can be different for each collection. This is used to provide collection identity. The graphic needs to be 754 x 65 and should fit the theme being used by fading to a solid color on the right of the graphic

You can also setup a LUNA header graphic that will be used when more than one collections are being accessed. Edit the Extended Collection Properties for the “-1” Collection ID.



The default is set to /luna/images/luna-default-header.jpg

Let's Get Started

Prerequisites

You need the following to proceed:

- LUNA and the LUNA Publisher need to be installed and running.
- 6.0 version of Insight Studio configured with access to the LUNA Publisher.
- At a minimum, the language bundles on the Insight User Manager need to be updated.
- Insight Studio access to the collections you will be adding to LUNA.
- Inscribe access to the collection(s) you will be publishing.

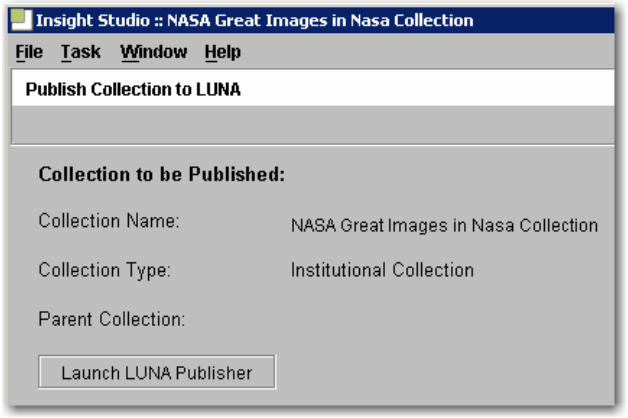
Note: The LUNA Publisher pulls the descriptive metadata and media information from a form of Inscribe. In certain collections that were created prior to 5.x, this content may not be properly accessible. If you do not see the correct images or data in the Inscribe tool, contact Luna's support department for assistance in preparing your collection for LUNA.

Collections that were created in Insight 5.x will not have this issue.

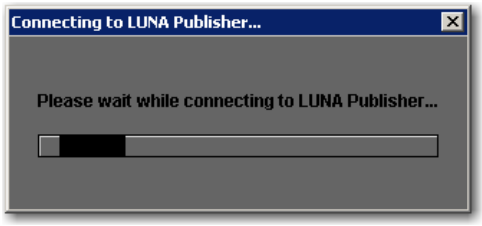
Publishing a Collection

Start Insight Studio, select the collection you want to publish to LUNA and from the Main Task Menu select the LUNA Publisher.

Next, select "Launch LUNA Publisher".

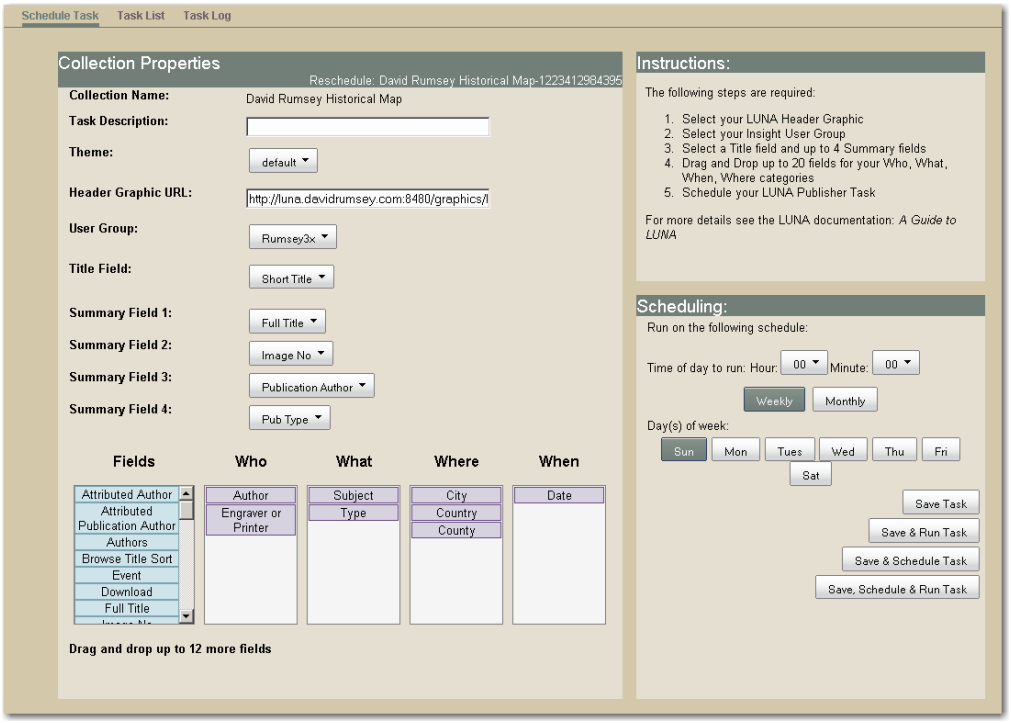


This will launch a web browser and connect to the LUNA Publisher.



Once in the LUNA Publisher, you can make your selections in the following areas:

- Enter a Task Description (optional).
- Choose the Theme for your collection.
    - Only “default” is available in the initial release of LUNA. Additional themes will become available in the future. These new themes will change the color scheme of the entire application.
- Choose the LUNA Header Graphic URL for your collection. If you have not selected one, the default graphic will be used.
- Choose the Insight User Group that will be used to access the data from your Insight Collections.
- Select the Title Field from the drop down list. This Title will be used to identify individual media items on several pages within the LUNA application, such as the Detail view and as a label in a slideshow.
- Select up to 4 Summary Fields to display. The Summary Fields will display as the user moves their mouse over the thumbnail images.
- Drag and Drop up to 20 fields into the Who, What, Where and When categories.
- Choose a recurring schedule for the LUNA Publisher to perform updates of the LUNA search index.
- You have 4 options When completing this task
    - Save Task (will only save the task)
    - Save and Run Task (will save and run the task now)
    - Save and Schedule Task (will save then execute the task on a schedule)
    - Save, Schedule and Run Task



Once you schedule this task, the LUNA Publisher will do the following:

- Archive the data from Insight.
- Produce an Index for the Collection.
- When the Merge and Load task is activated, all collections that have been indexed will be merged and the new Master Index will be created and placed on the live LUNA server.

> **Note**: You need to activate the Merge and Load task before LUNA will make the collections live.

Activating the Merge and Load task

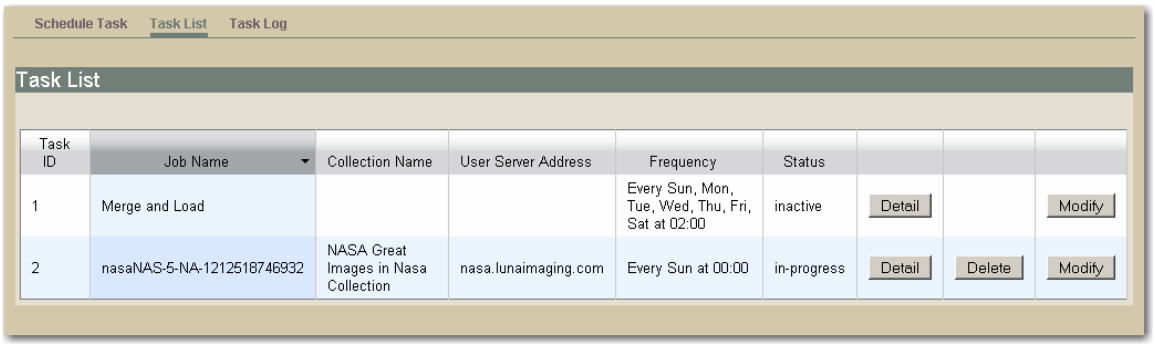
So what is Merge and Load?

During the Publishing process a collection is turned into a searchable index for a specific collection. Each index is stored in the collection_indexes folder on your server.

Once you have published all collections that you currently want to make available in LUNA, these separate published indexes need to be merged into a single index. Then when the merge process is complete, the merged index needs to be loaded as the active current index. Once loaded you can search all collections that have been published to LUNA.

Now to activate the Merge and Load task

In the LUNA Publisher task list, locate the Merge and Load task. This will be the one at the top of the List. Click the Modify button.



- Now set your preference on how often the Merge and Load task will take place. If you want it to run every night at 2am, select all the days of the week and change the hour to 02.
- You have 4 options When completing this task
    - Save Task (will only save the task)
    - Save and Run Task (will save and run the task now)
    - Save and Schedule Task (will save then execute the task on a schedule)
    - Save, Schedule and Run Task

Testing your LUNA Collections

Once your collection(s) have been Published, Merged and Loaded, you will be able to view your Collections in LUNA.

The address to your LUNA collection will be similar to the following.
http://www.example.edu:8180/luna/servlet

If you would like to access your collection(s) without the port number (8180), you will need to configure the system to use the AJP connector. There are instructions on how to work with the AJP Connector for both Apache and IIS available on the web.

This document does not cover how to configure the AJP connector.

Migrating Insight Media Groups and Shares to LUNA

Introduction

You can perform a one time only migration of Media Groups and Share Folders from your Insight Collections to LUNA.

This process is a single direction process and you will NOT be able to synchronize Media Groups between LUNA and Insight.

You should plan your timing of this process carefully. This should be done with your end users knowledge of what and when this process will take place. Your end users may have a significant amount of work invested in creating and managing these Media Groups and Shares. They should also be very familiar with the new LUNA interface and how they can access their Media Groups once migrated.

Migrating the Content

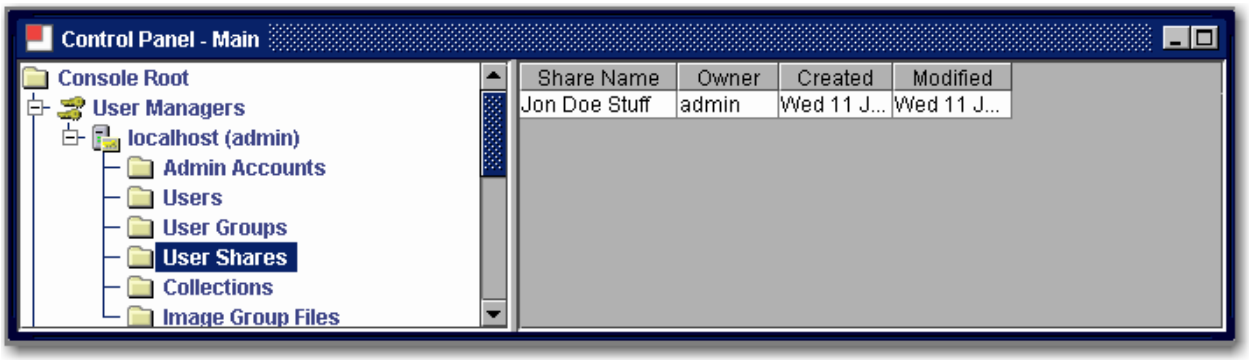
Prerequisites

On the Install disk for LUNA you will find the utility for the migration in \utilities\media_group_migration_to_LUNA folder

- You will need access to each Insight Collection Manager on your server and database port access. Basically, if you can run the Admin Tools from the machine doing the migration, then you have sufficient database access to perform the migration.
- You will need the InsightServer.dat for each collection you plan to migrate the Collection level Groups from.
- You need the InsightUserServer.dat for the User Manager.
- You need the LunaServer.dat that was created at the Install time of LUNA. This file is contained in <LUNA Install directory>/resources/For_Media_Group_Migration

These files have the database connection information in them and will be used for the migration.

- You will need access to the User Managers Image-Group-Files folder. This can be a copy or the original.
- The utility uses Java 1.4 and it will need to be available for the migration. All of the Insight servers use Java 1.4 so you can reference the Insight Server version.
- Make sure all Shares have an owner. This can be done using the Admin Tools and looking at the Owner Column of the User Shares. If they do not have an owner, please assign one or a random owner will be assigned at the time of migration.



Steps for the Collection Level Group Migration

1. Copy the media_group_migration_to_LUNA folder to the location where you will perform the migration.

2. Copy the LunaServer.dat into your media_group_migration_to_LUNA folder.

3. Edit the LunaServer.dat.

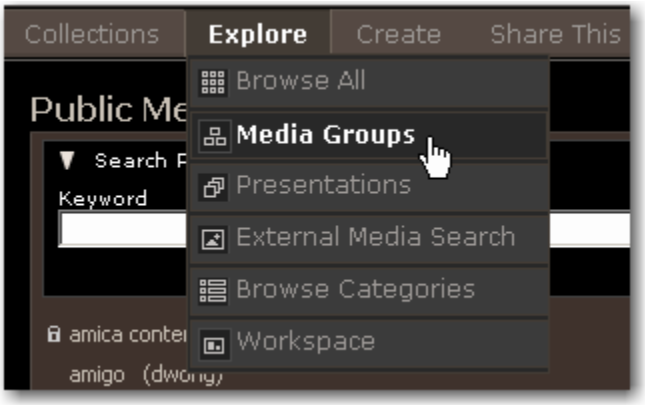
    a. Modify the MediaGroupDefaultPassword= property to set the password used to Protect the Media Groups in LUNA.
    b. Set the ImageGroupFileDir= to point to the Image-Group-Files folder.

4. Copy the InsightServer.dat into your media_group_migration_to_LUNA folder.

5. Edit to the run_collectiongroupexport.bat (windows) or run_collectiongroupexport.sh (Linux or Solaris) to point to a local version of Java 1.4 if it is not in your PATH environment.

6. Execute the run_collectiongroupexport script (only once) if you run this twice, you will end up with duplicate Media Groups.

7. Verify that the Media Groups are in your LUNA system located in Explore/Media Groups.



8. Repeat for each Collection Manager that you are migrating Collection Level Media Groups from by replacing the InsightServer.dat.

Steps for Migrating Insight Shares and Media Groups

1. Copy the media_group_migration_to_LUNA folder to the location where you will perform the migration.

2. Copy the LunaServer.dat into your media_group_migration_to_LUNA folder.

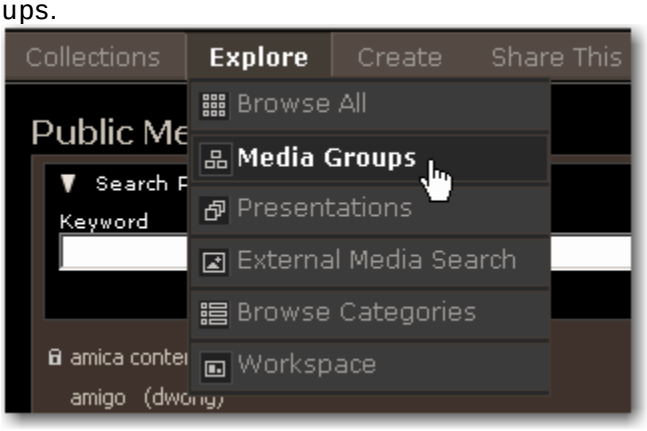
3. Edit the LunaServer.dat.

    a. Modify the MediaGroupDefaultPassword= property to set the password used to Protect the Media Groups in LUNA.
    b. Set the ImageGroupFileDir= to point to the Image-Group-Files folder.

4. Edit to the run_shareexport.bat (windows) or run_shareexport.sh (Linux or Solaris) to point to a local version of Java 1.4 if it is not in your PATH environment.

5. Execute the run_shareexport script (only once). If you run this twice, you will end up with duplicate Media Groups.

6. Verify that the Media Groups are in your LUNA system located in Explore/Media Groups.



Managing LUNA with the Administrator Tools

Introduction

The Administrator tools have been enhanced to incorporate tasks for managing the LUNA application and configuration.

In the Administrator Tools you can:

- Manage user rights
- Manage Credentials
- Manage IP range access privileges
- See what collections LUNA has loaded
- Manage the LUNA Application Configuration
- Manage the Collection Properties
- Place the LUNA Application into maintenance mode

Managing User Rights and Access Privileges

Before defining how to manage users and their privileges, you need to understand what options exist and how they are integrated with current Insight User Management.

If you have been working with Insight, then you should be familiar with how Insight grants access to collections. LUNA can work with existing Insight authenticators to grant your users access to your collections.

During your installation, you were asked for your User Manager's address. If you are using the default Insight User Manager to grant access to your collections, then you do not need to do anymore work to allow your users access to collections in LUNA.

LUNA also has several other authenticators that can be used to grant access to your Collection resources.

- LUNA self registration and user management
- Integrate with Active Directory using Kerberos and LDAP
- Authenticate via LDAP

LUNA Self Registration

During the install process you were given the option to let users self register in LUNA. If you selected this option you will see the Register option at the top of the LUNA application.

This allows the user to create and manage their own account in LUNA. Once registered, the user will be granted the default privileges defined in the default Credential.

Integrate with Active Directory Using Kerberos and LDAP

As with Insight, LUNA can be integrated with Active Directory to grant access to your Collections.

To configure LUNA with your Active Directory server, you will need to contact our support department for instructions on your specific configuration support@lunaimaging.com. This document does not go into the configuration details of Active Directory integration.

Integrate with LDAP

As with Insight, LUNA can be integrated with LDAP to authenticate your users and grant them access to your collections.

To configure LUNA with your LDAP server, you will need to contact our support department for instructions on your specific configuration support@lunaimaging.com. This document does not go into the configuration details of LDAP.

Advantages of LUNA Authentication Methods Not Available in Insight Java Client

LUNA authentication has been designed to be more flexible to allow for future authentication methods and to allow for mixed authentication methods to be used.

LUNA can be configured to use more than one authentication method in your environment. LUNA can be setup to step through any number of authenticators. For example:

- You can have LUNA access the Insight User Manager and also allow for LUNA self registration.
- You can have an LDAP server authenticate and use the Insight User Manager to grant access to individuals who are not in your LDAP server.

There are many ways LUNA can be configured. Please contact support@lunaimaging.com for any questions you might have.

LUNA's Escalating Collection Access

LUNA has also been designed to grant increasing access as a user passes certain conditions.

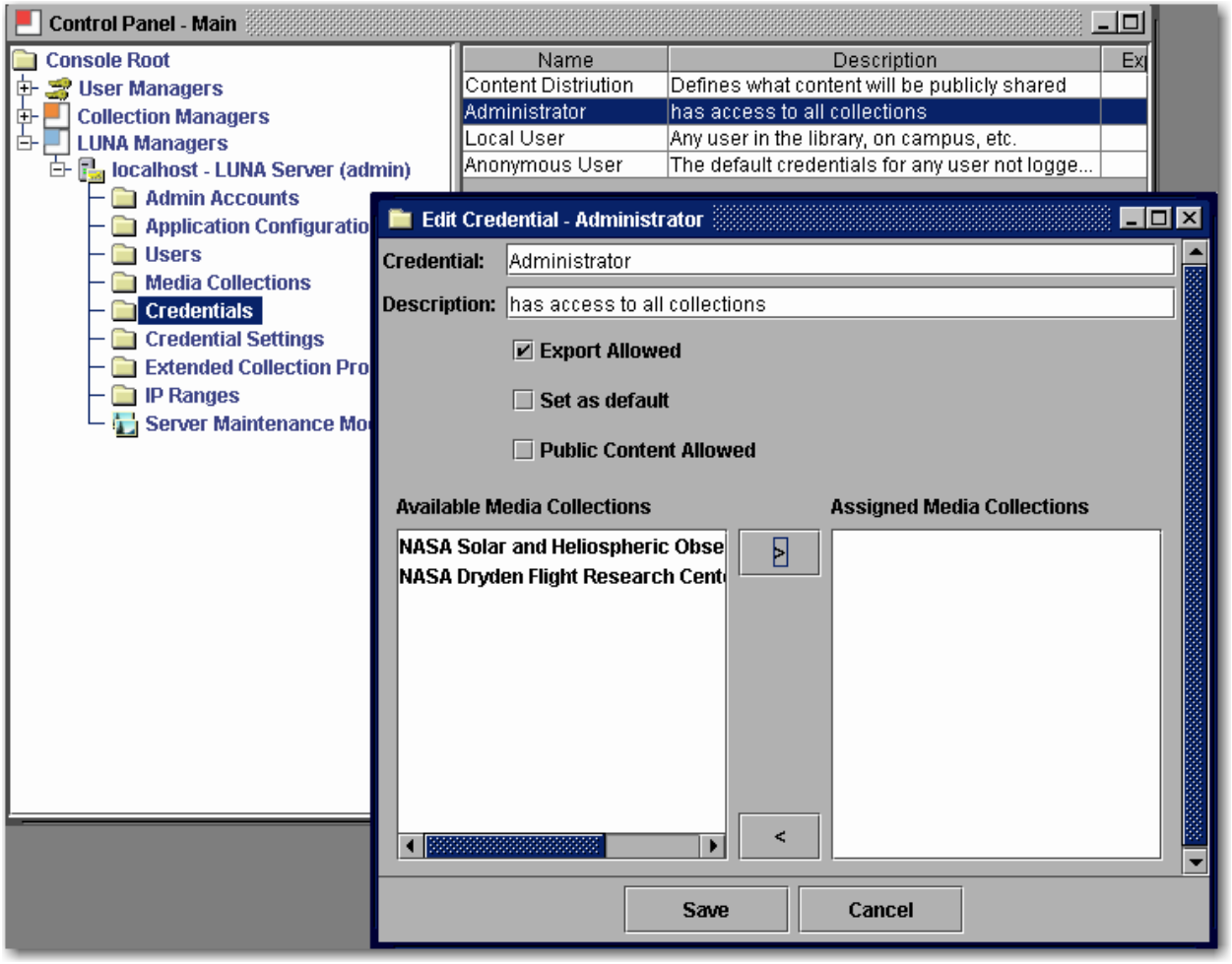
At your institution you may want to do the following:

- Level 1 anonymous user - off site but you still want to make some of your collections accessible.
- Level 2 (within a lager block of IP's) – on site privileged collections are accessible.
- Level 3 (within a restricted block of IP's) – on site but in a particular area where the user is granted access to restricted collections.
- Level 4 (logged in to LUNA) - granted access to even more collections with the ability to export.

This is a very flexible system and can meet many needs for granting varied collection access.

Credentials

Credentials are used to define a set of privileges to selected collections.



There are four Credentials by default in your LUNA application. You are responsible to define what each one of these will be used for. You can create as many Credentials as you want.

With a Credential you can:

- Define what collections are accessible
- Indicate if exporting will be allowed
- Define it as the default (only one allowed)
- Indicate if the LUNA Community Commons (publicly shared collections) will be accessible

Only one credential can be assigned to:

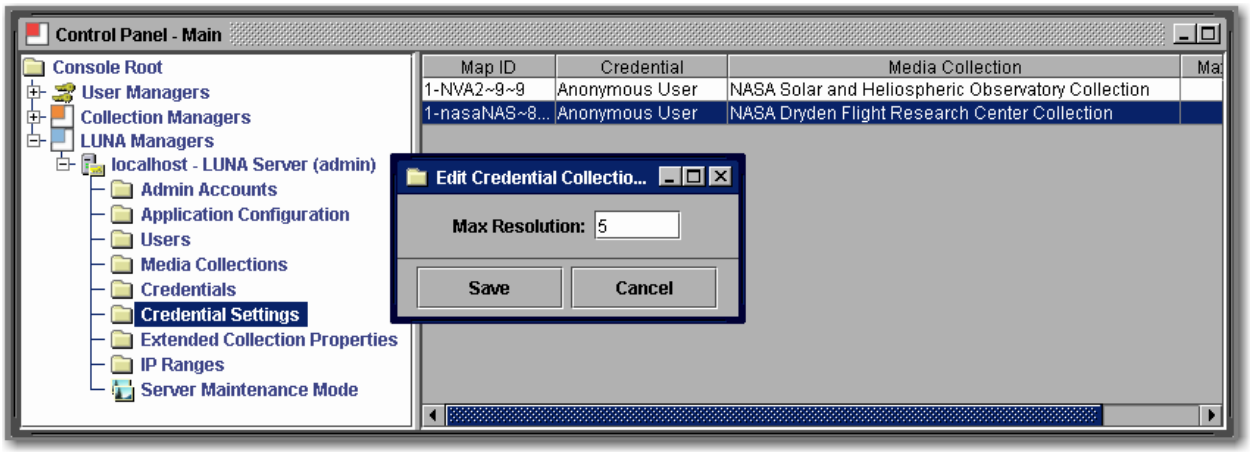
- An IP Range
- A User
- Default (Anonymous User)

> Run Maintenance Mode twice to load your new Credential settings.

Credential Settings

Using Credential Settings, you have the following three options: 3, 4 and 5.

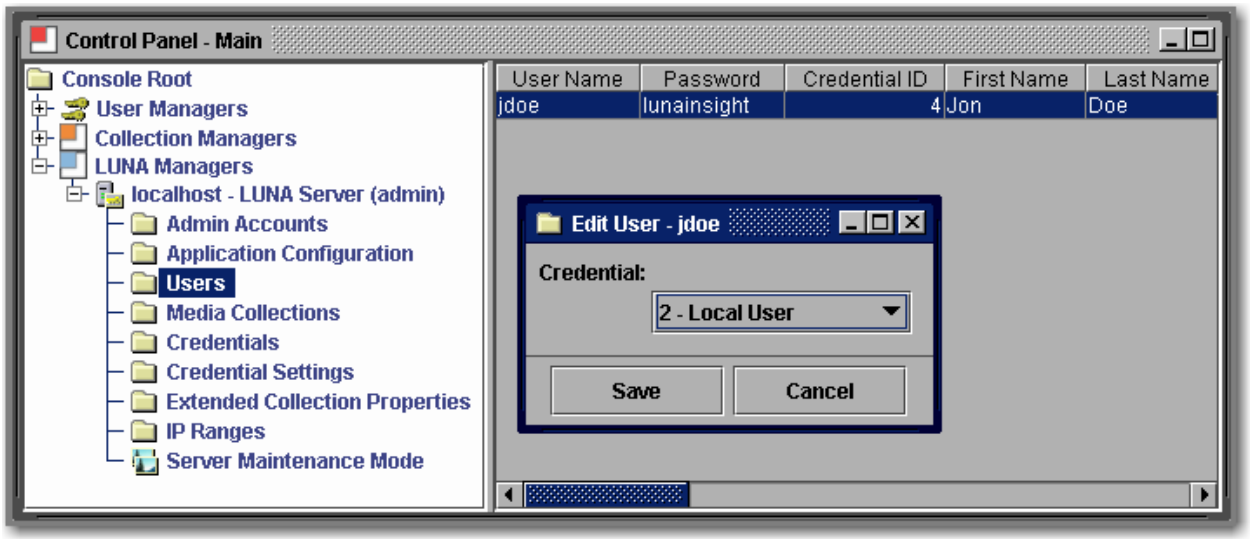
- 3 indicates the user has up to Size 3 access (768 pixels on the long side).
- 4 indicates the user has up to Size 4 access (1536 pixels on the long side).
- 5 indicates the user has full access privileges to the images.



Access to LUNA Size 2 (384 pixels on the long side) is automatically assumed.

User Settings

Each user will be assigned a credential.



Users cannot be added from the Admin Tools. Instead, they will be created through the following:

- User Self Registration (passwords will display in Admin Tools)
- Automatically migrated from the Insight User Manager on first login (passwords never copied)

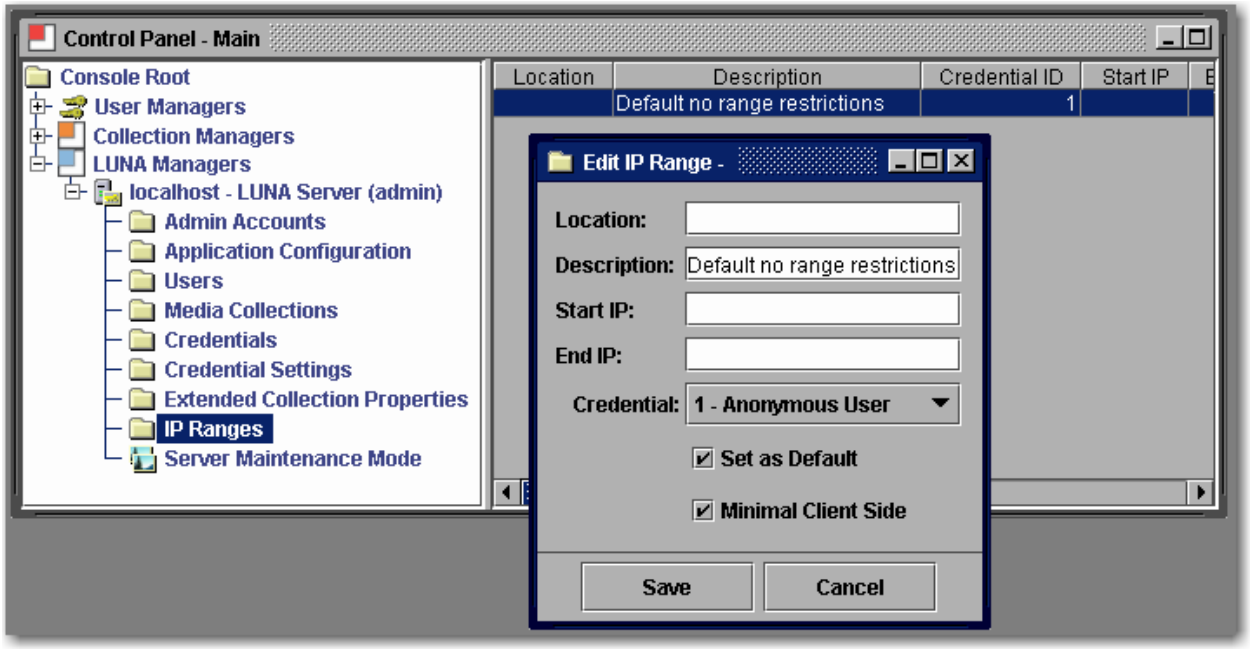
- From Active Directory (passwords never copied)
- From LDAP (passwords never copied)

Each authenticator will add its own user and each user is granted the default Credential. You can reassign a Credential to a user at any time.

If you are using the Insight User Manager to get access to your collections, you will receive access to all collections you had access to in Insight, in addition to whatever is defined in the default credential.

IP Ranges

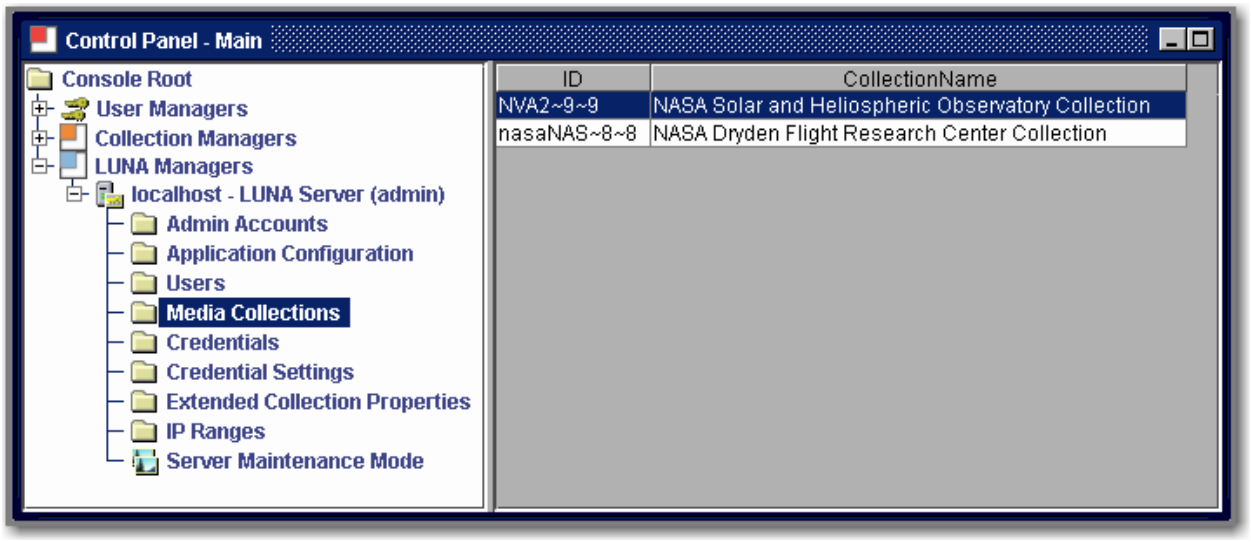
IP Ranges are another way of assigning Credential level privileges. You can set up IP ranges to grant access to specific areas and access to specific content.



> Run Maintenance Mode twice to reload your new settings.

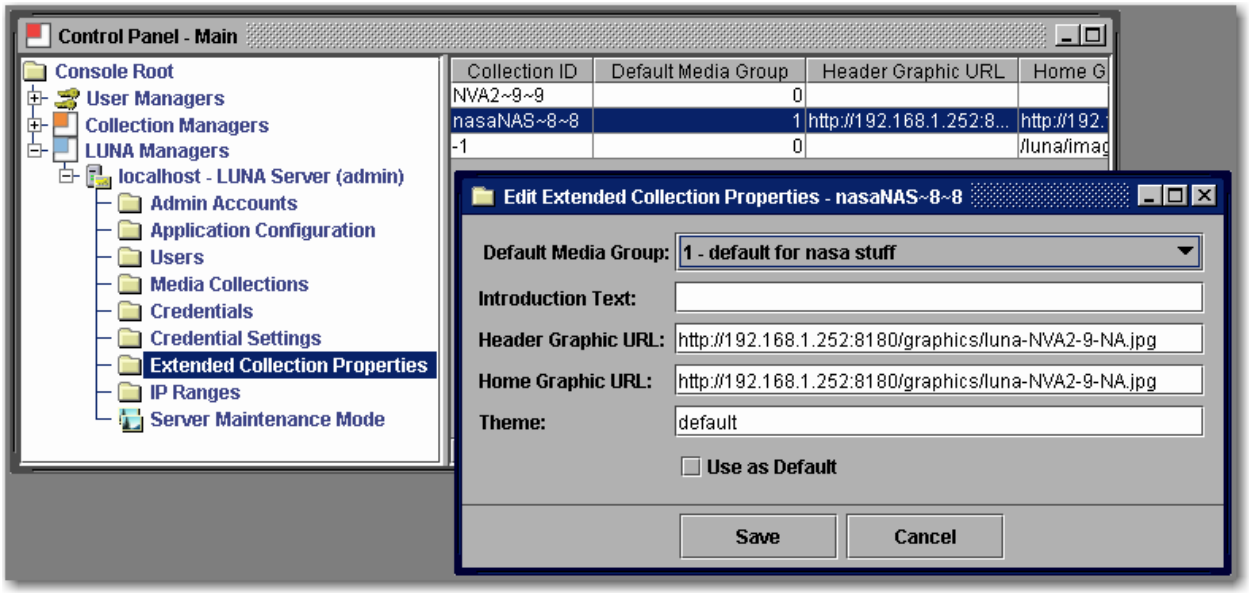
Media Collections

Media Collections shows you which collections have been added to LUNA.



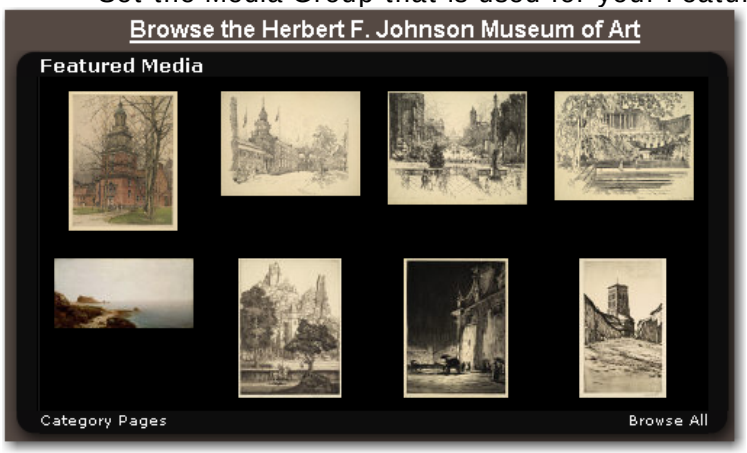
Extended Collection Properties

Extended Collection Properties are provided to allow you to make changes your collections.



Extended Collection Properties will allow you to do the following:

- Set the Media Group that is used for your Featured Media on your Collections Page.



- Redefine the collection's Introduction Text (this text is automatically pulled from your Insight Collection and may not need to be updated).

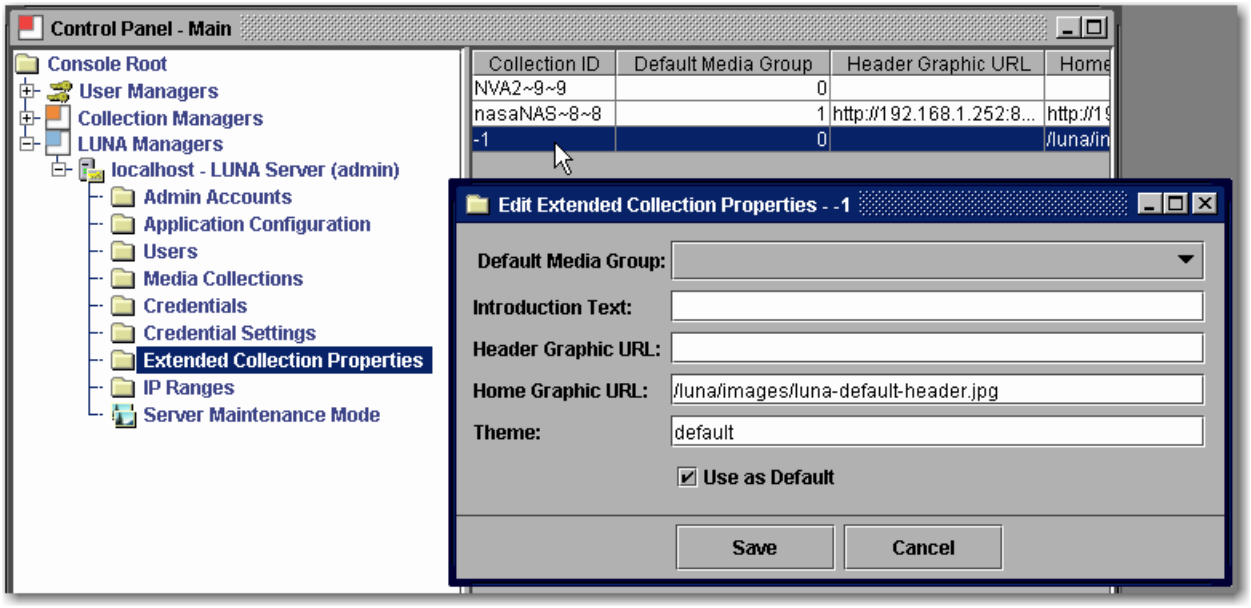
- Change the Header Graphic URL. This Graphic must be exactly 754 x 65 pixels and be available from any browser accessing the collection.

- Define the Home Graphic (NOT used at this time - do not populate).

- Indicate what theme will be used by your collection. At the time of this release, only "default" is available. In the future other themes that will define the entire color scheme of the application will be available to set. If you would like to participate in defining Themes, please contact Luna's support department support@lunaimaging.com.

Defaults for Multi Collection Access

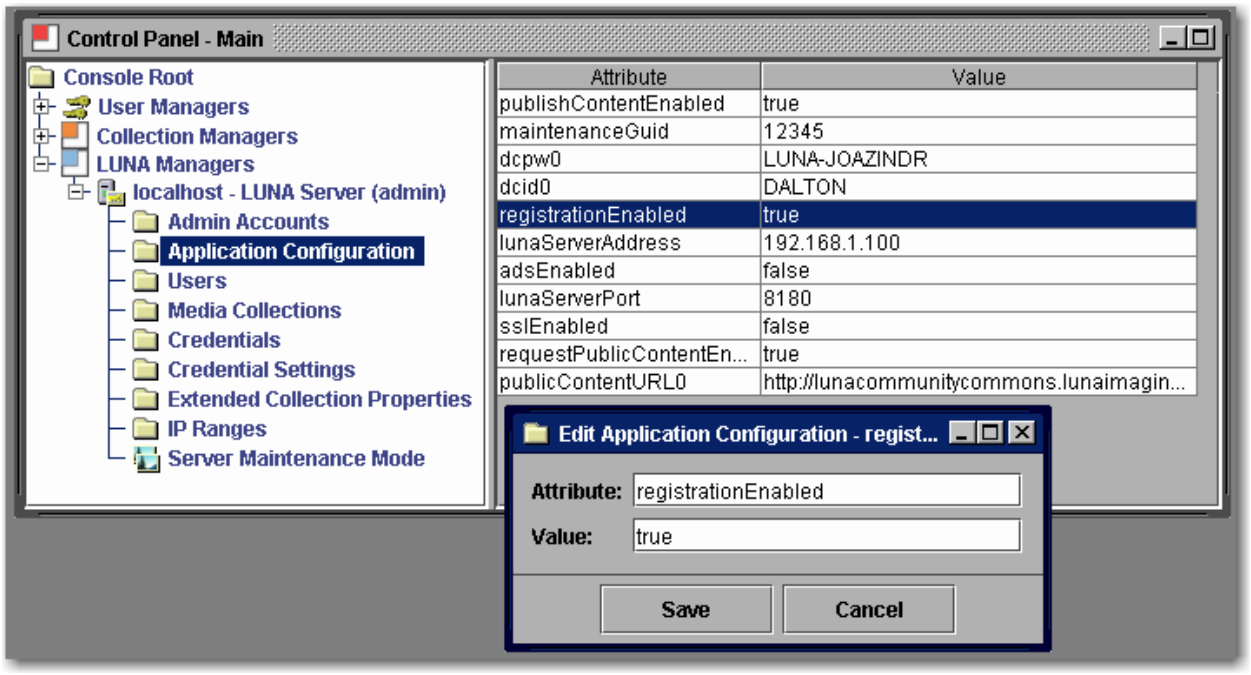
Collection ID -1 is the default used for any user accessing more than one collection.



This is a very important graphic and will be used to give identity to your institution. Many times default access will be to more than one collection and you will want to have your institution's identity defined here.

Application Configuration

Application Configuration allows you to set various characteristics of LUNA.

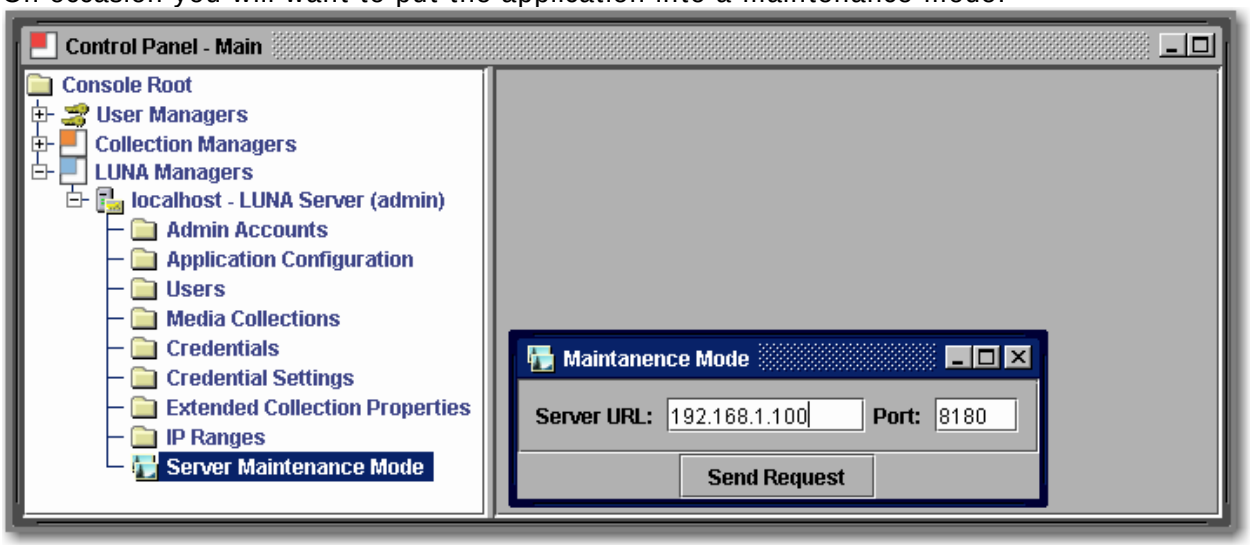


During the installation process these settings were defined. If you need to make modifications to any of these properties, be aware that it will affect how LUNA functions. If you are unsure of what a particular setting is for, do not change it without first contacting Luna support for an explanation of the setting.

Making any change most likely will require the application to be restarted.

Maintenance Mode

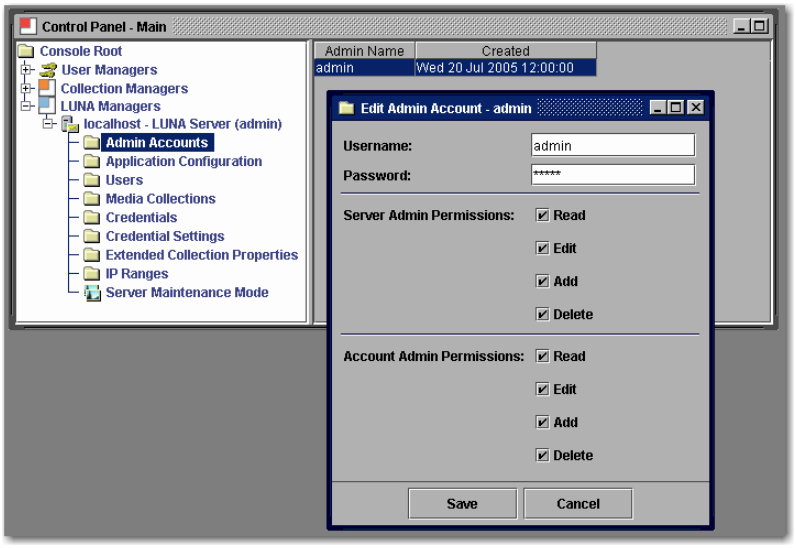
On occasion you will want to put the application into a maintenance mode.



Maintenance Mode can also be used to reload User and Credential Settings. To trigger Maintenance Mode send one request, then send a second to take the system out of Maintenance Mode and reload your settings.

Admin Accounts

Used to control access to the Admin Tools console.



Like in User Manager and Collection Manager sections of the Administrator Tools, The LUNA Manager also has Admin Accounts. These accounts grant access to the Admin Tools.
Server Admin Permissions grants access to perform actions in the Admin Tools.
Account Admin Permissions grants access to create and manage Admin Accounts.

Virtual Collections in LUNA

Introduction

This section describes how to prepare your system to support Insight Virtual Collections in LUNA.

You will need to update your Insight Collection database by running a script that changes a Primary Key on the IRGROUPS table of your Insight Collection Manager database.

You will then need to use the Administrator Tools (6.0.1+) to prepare the virtual collection for LUNA as described in this section.

Once you have completed this preparation, you can publish your virtual collections the same way you publish other collections to LUNA.

Updating your Insight Database

Warning!!! Before making any database changes, always backup your current database.

The first step is to change the Primary key of the IRGROUPS table in the Insight database that contains your virtual collection.

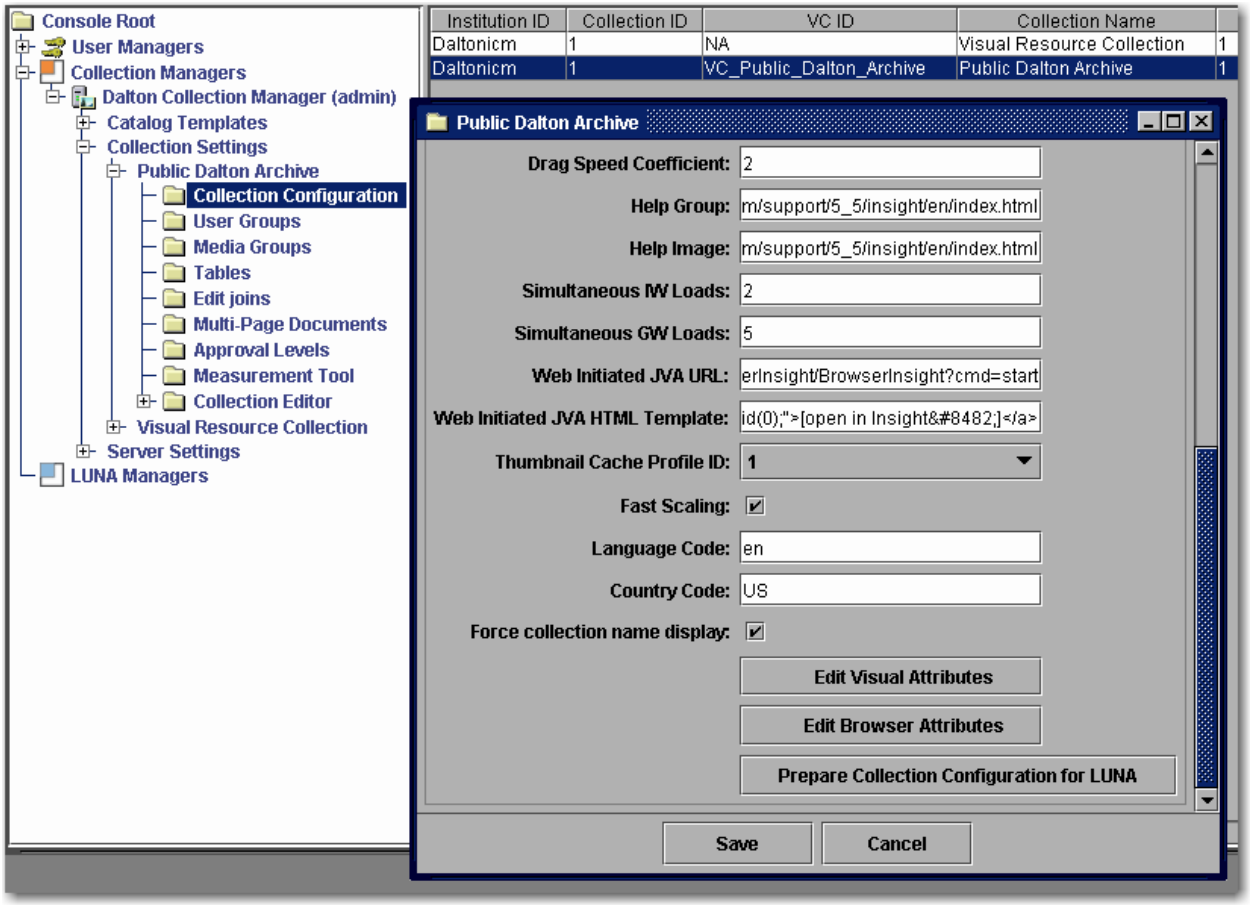
There are two ways you can do this.

1. If you are familiar with how to change primary keys in your database, you can change the Primary Key on the table IRGROUPS from (GROUPID) to (UNIQUECOLLECTIONID,GROUPID,VCID)

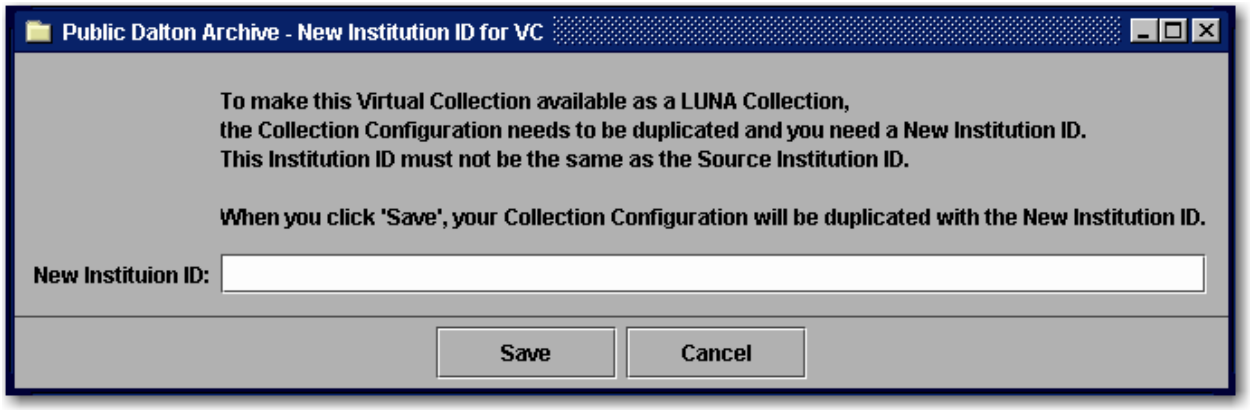
2. Use one of following database scripts links to update your IRGROUPS table
    - For MySQL
    - For MSSQL
    - For Oracle

Preparing your Virtual Collection with the Administrator Tools

Using your Administrator tools (6.0.1+) open your collection configuration panel for the Virtual Collection you would like to make available in LUNA. Scroll to the bottom of the panel. You will see a button that says "**Prepare Collection Configuration for LUNA**". Select this button. (This button will only show for virtual collections)



Once you have selected the **Prepare Collection Configuration for LUNA** button, you will need to set a New Institution ID for the collection. Make sure this is different than the Source Institution ID.

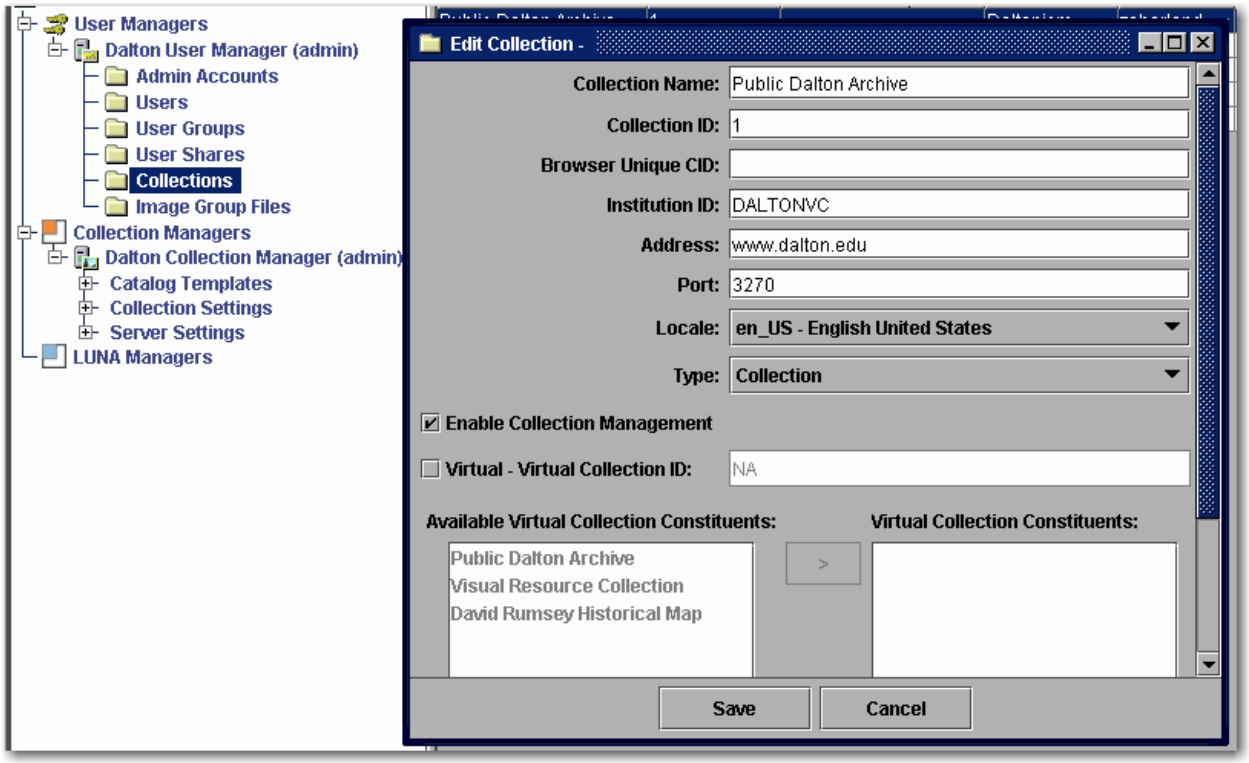


As described in the previous panel, your collection entry will be duplicated and you will now have two entries for your Virtual collection. The original and now the new one with the New Institution ID and the VC ID of NA.

Institution ID	Collection ID	VC ID	Collection Name
Daltonicm	1	NA	Visual Resource Collection
DALTONVC	1	NA	Public Dalton Archive
Daltonicm	1	VC_Public_Dalton_Archive	Public Dalton Archive

Next you will need add an additional Collection entry to the User Manager to access the Virtual collection in LUNA.

Under the Collections section of the User Manager, create a new entry and fill in Collection Name, Collection ID, your new Institution ID Server Address and port number. Then save your Collection entry.



Next you will need to give a Studio privileged user access to this collection.
For instructions on this, follow the “Granting Access to Insight Studio” in the “User’s Guide to Basic Collection Building”.

Once a user has access to this virtual collection in Studio, they can Publish the collection into LUNA just like any non-virtual collection.