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# Genesys Mobile Services Deployment Guide

[Create an Application Object](#)

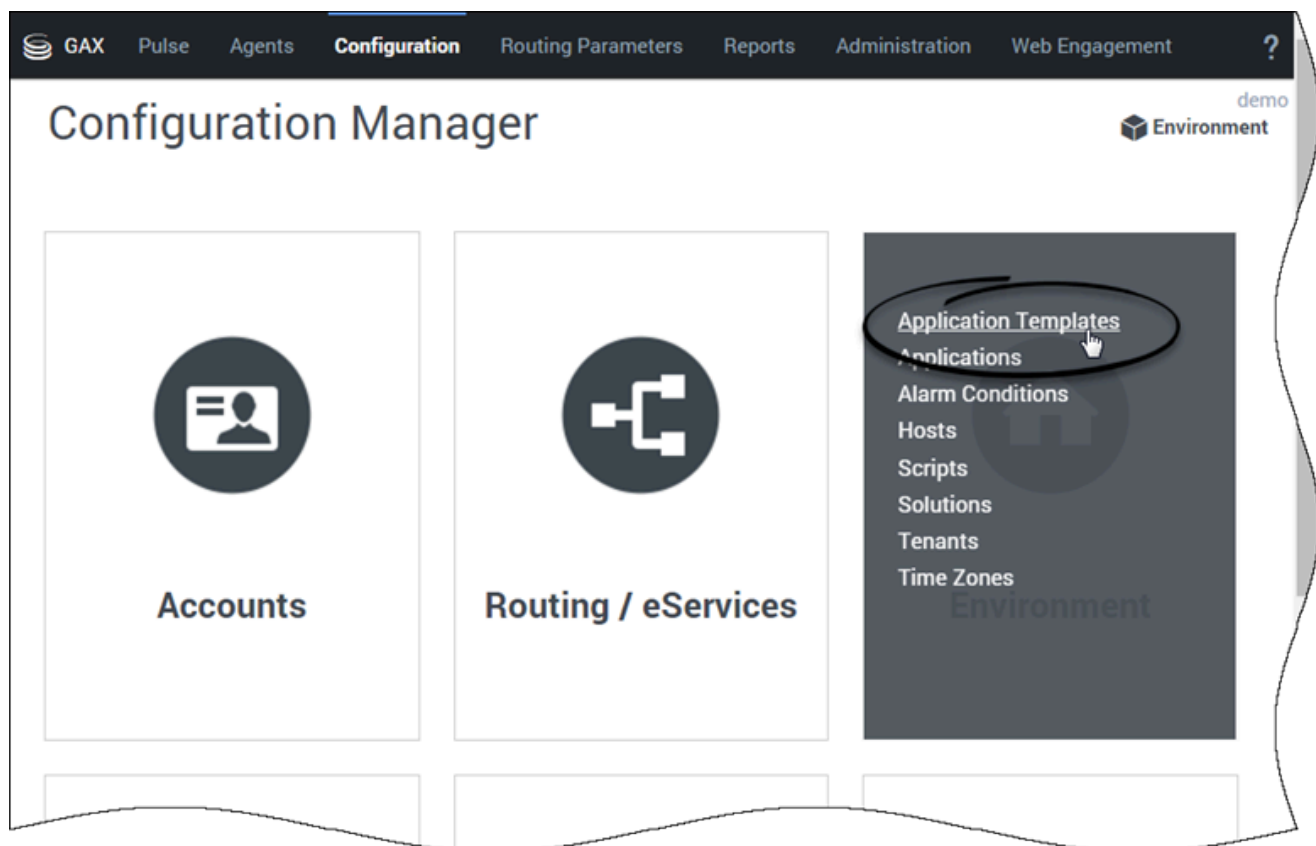
12/14/2025

# Create an Application Object

## Important

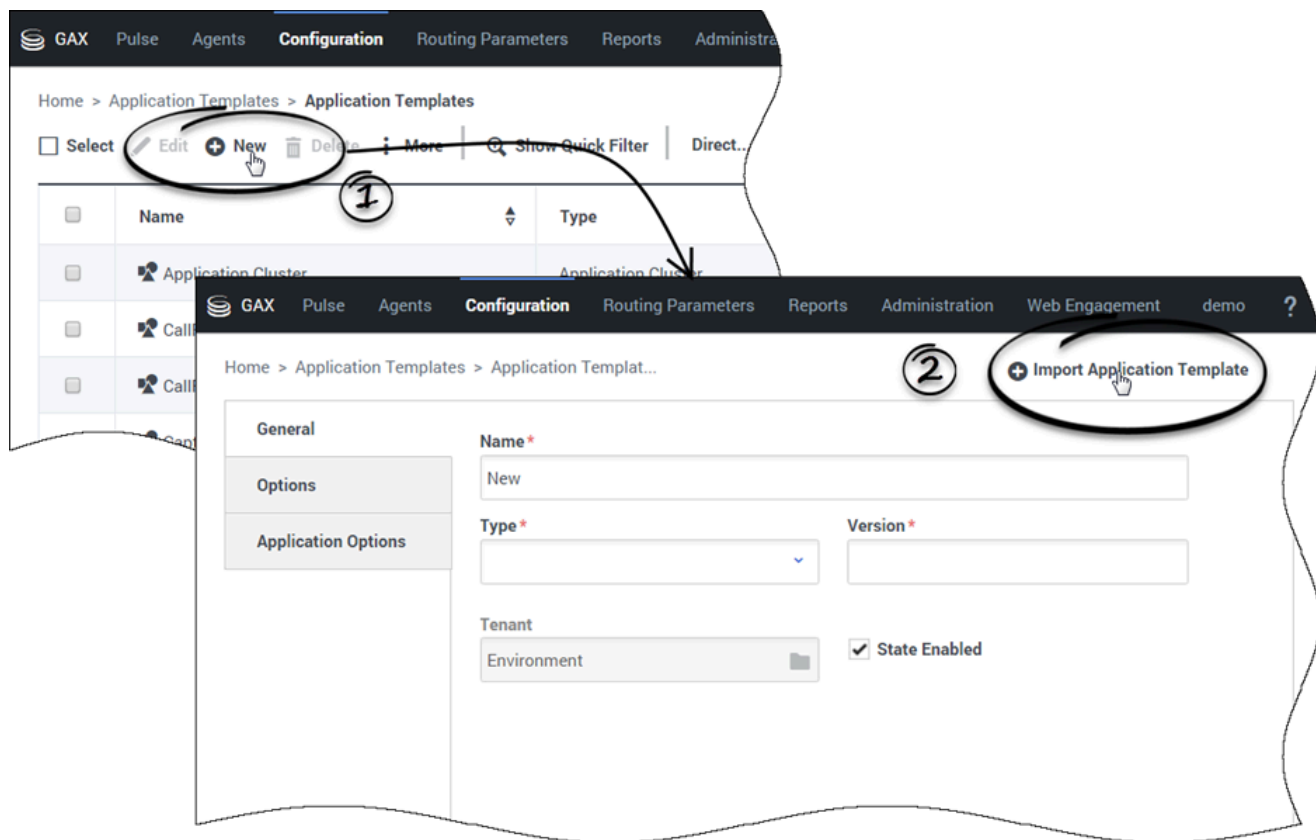
Configuration objects can be created and configured in Genesys Administrator and Configuration Manager. To learn how to start Genesys Administrator, refer to the [Genesys Administrator Help](#).

## Import the GMS Application Templates



In Genesys Administrator Extension, find the **Configuration Manager > Environment** menu and click **Application Templates**.

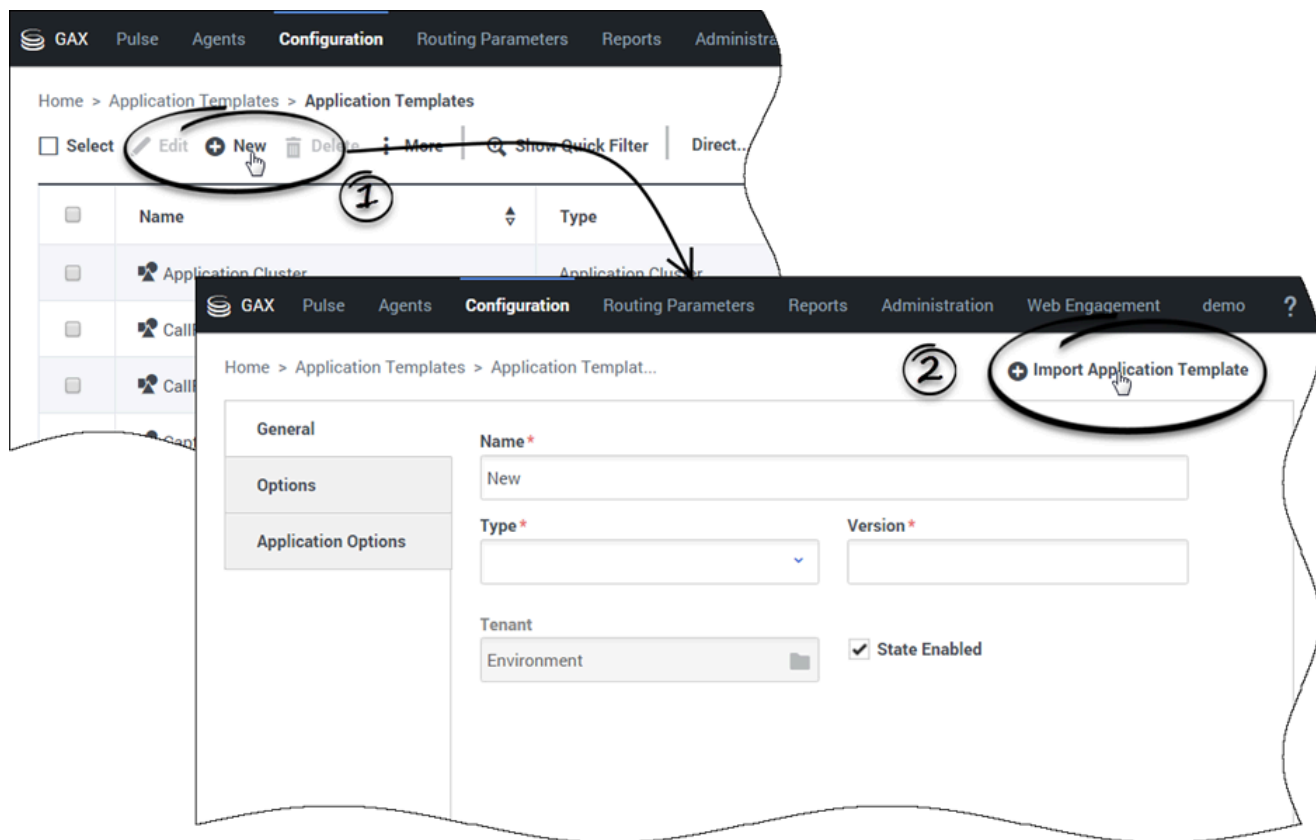
## Create an Application Object



Click **+New**, then click **Import Application Template**. Navigate to the *Templates* directory of your Installation Package (IP) and add the following files:

- **GMS\_851.apd** - This template is used to deploy GMS with default options.
- **ApplicationCluster\_851.apd** - You do not need this template for a single node deployment. This template is used for deploying all GMS's into the same cluster. The Cluster Application will contain shared configuration for GMS nodes.

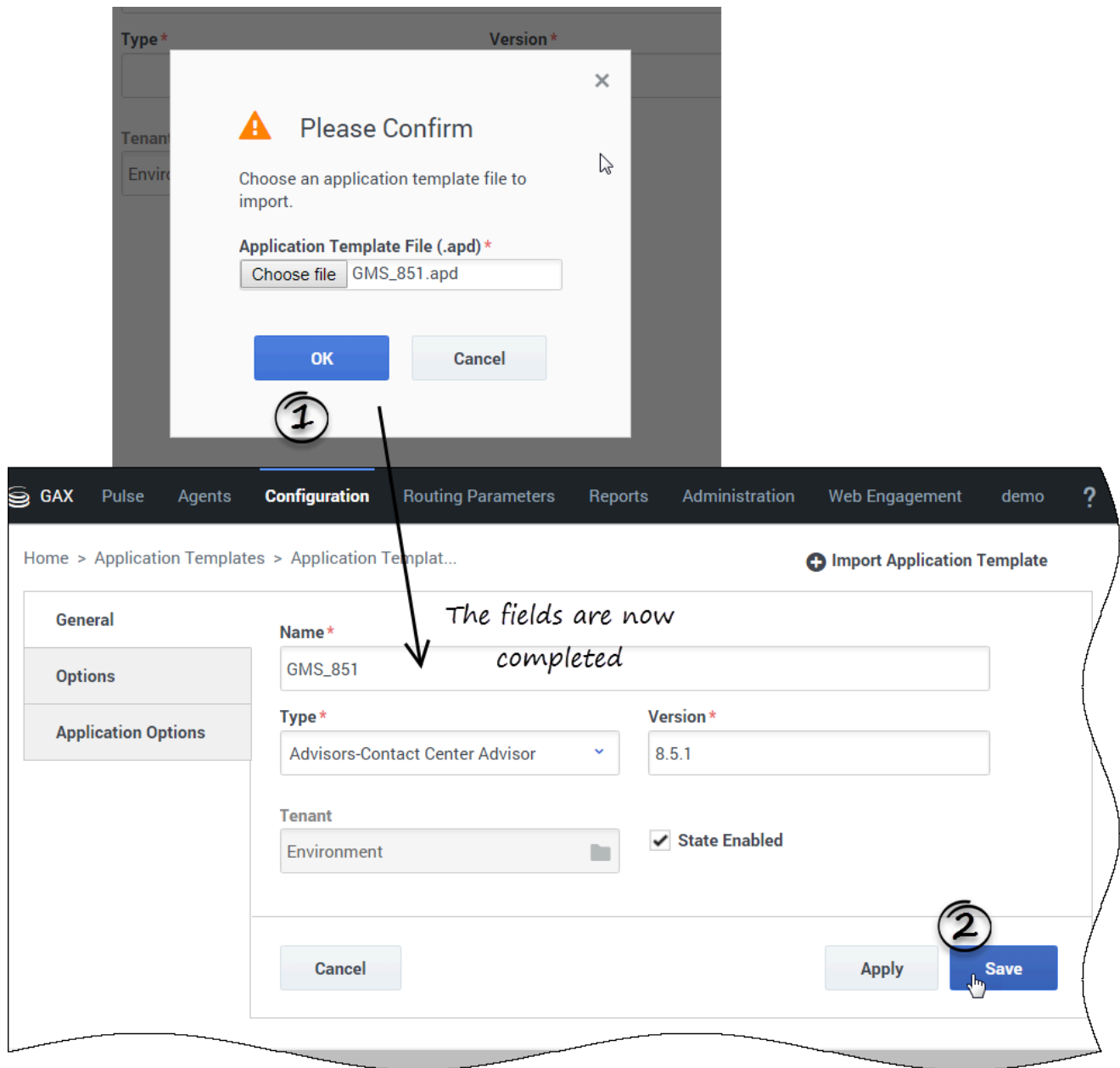
## Create an Application Object



Click **+New**, then click **Import Application Template**. Navigate to the *Templates* directory of your Installation Package (IP) and add the following files:

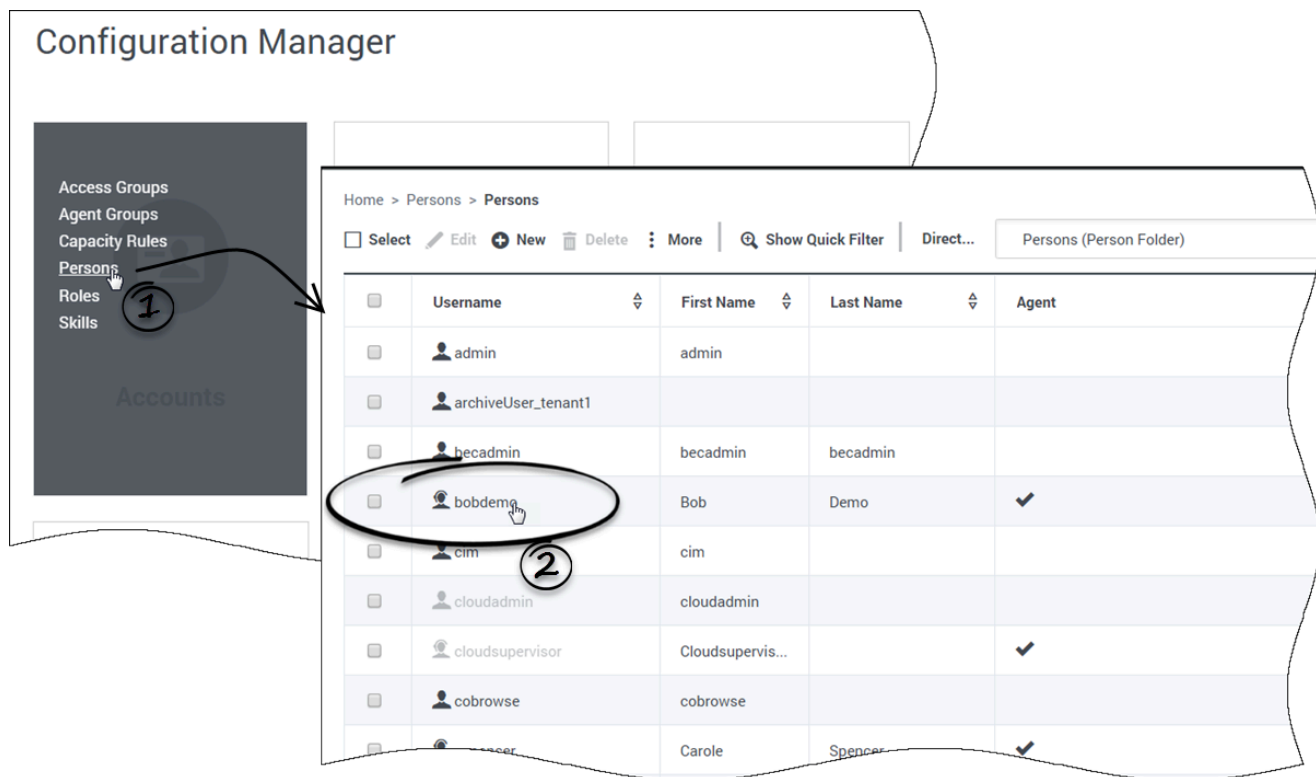
- **GMS\_851.apd** - This template is used to deploy GMS with default options.
- **ApplicationCluster\_851.apd** - You do not need this template for a single node deployment. This template is used for deploying all GMS's into the same cluster. The Cluster Application will contain shared configuration for GMS nodes.

## Create an Application Object



Confirm the Import action, then **Save** the template.

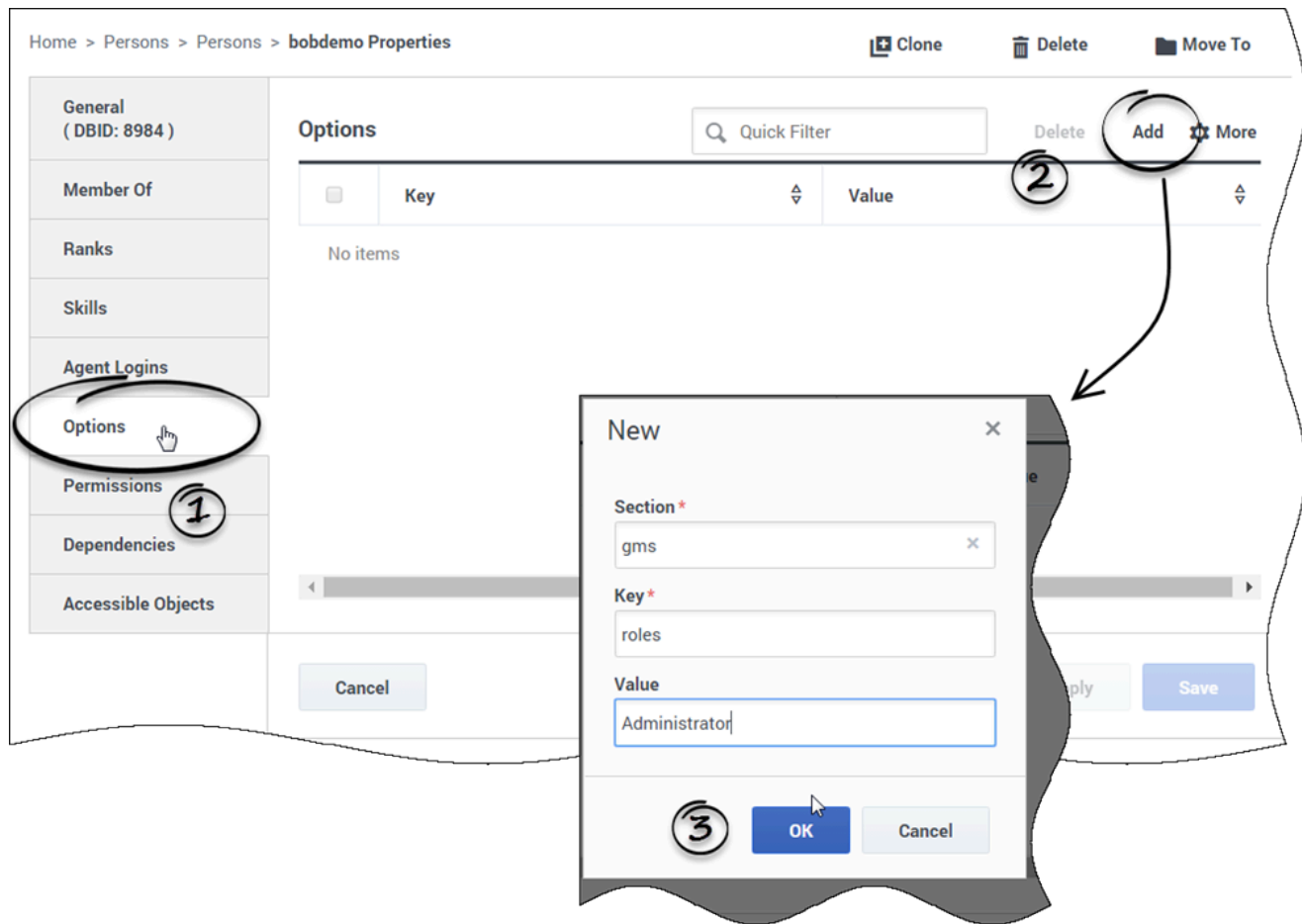
### Create a GMS Administrator



Open GAX and select the **Configuration Manager** section. In the **Accounts** menu, select **Persons** to get the list of configured users.

Edit the person who will be logging into the Service Management UI. You are going to give this user the permissions to read/write data into Callback related configuration objects (for example, GMS Application, Business Attributes, Transaction Lists for Resources/Patterns, and so on).

## Create an Application Object



In the **Options** tab, click **Add** to set the gms/roles option:

- Enter gms for **Section**,
- Enter roles for **Key**,
- Enter one of the following values: and its value to:
  - Supervisor: Role used to monitor and configure Callbacks only.
  - Administrator: Role used to administer the creation of Callback Services. This role provides access to all panels and includes the **Supervisor** role.

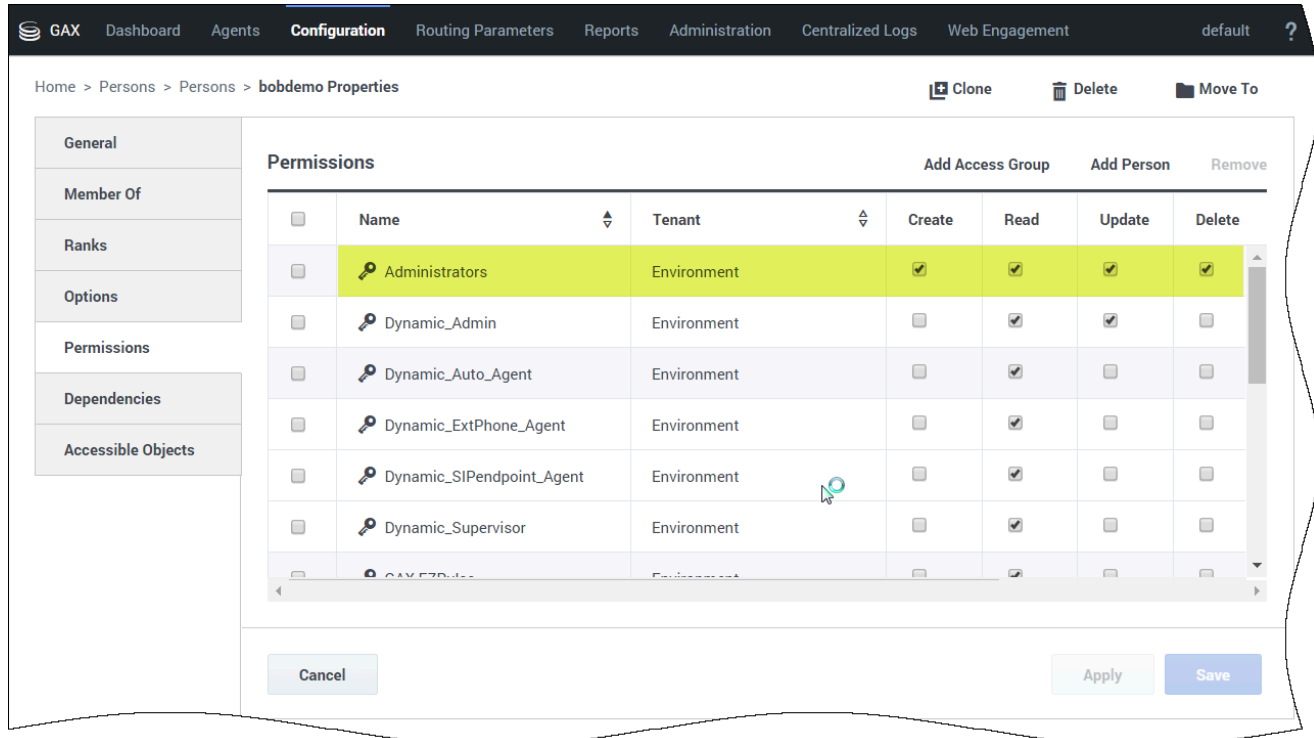
### Important

If an Administrator changes a user's role during a Service Management UI session, the user will have to disconnect/reconnect for the new role to go into effect.

### Set Administrator Permissions

#### Warning

This step is required only for versions older than 8.5.102.11.



The screenshot shows the GAX Configuration page for the 'bobdemo Properties'. The 'Permissions' tab is active, displaying a table of roles and their permissions. The table has columns for Name, Tenant, Create, Read, Update, and Delete. The 'Administrators' role is highlighted in yellow and has all permissions checked. Other roles like 'Dynamic\_Admin', 'Dynamic\_Auto\_Agent', 'Dynamic\_ExtPhone\_Agent', 'Dynamic\_SIPendpoint\_Agent', and 'Dynamic\_Supervisor' have only 'Read' permission checked. The 'GAX\_FZD-100' role is partially visible at the bottom.

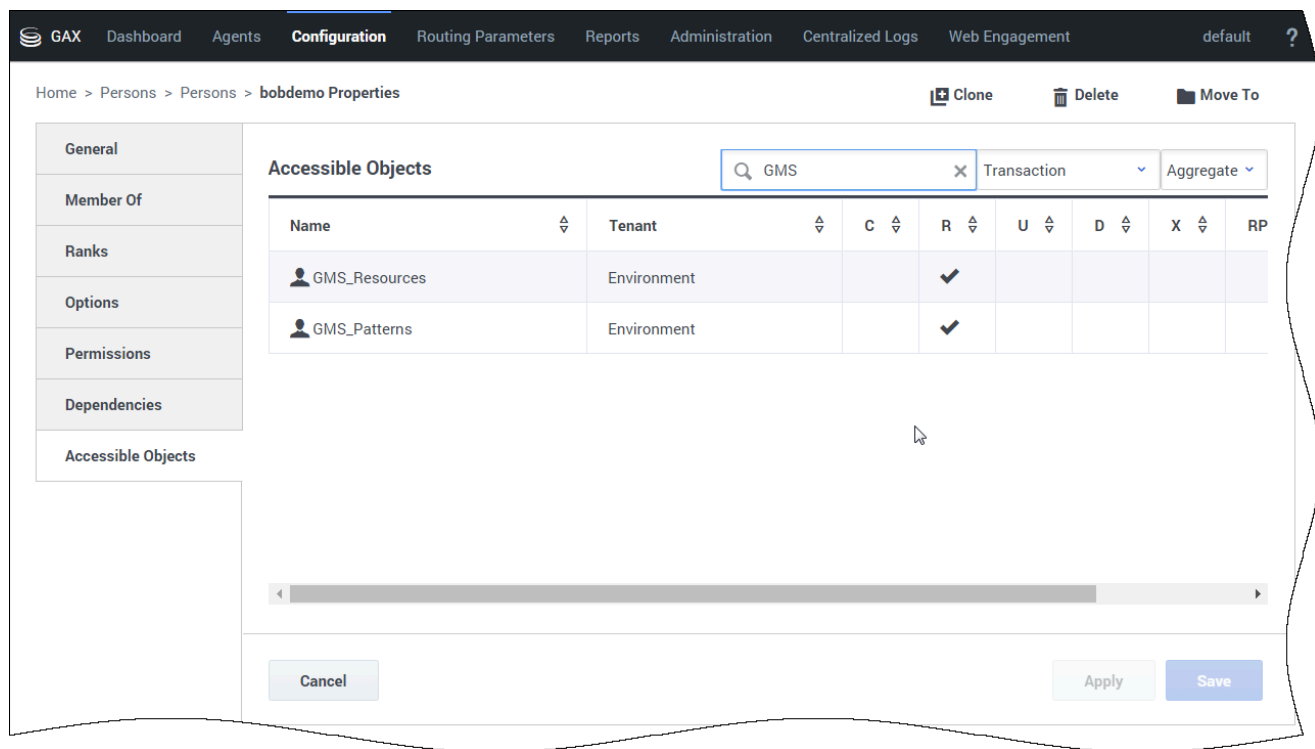
Name	Tenant	Create	Read	Update	Delete
Administrators	Environment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dynamic_Admin	Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dynamic_Auto_Agent	Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dynamic_ExtPhone_Agent	Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dynamic_SIPendpoint_Agent	Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dynamic_Supervisor	Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GAX_FZD-100	Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In the **Permissions** tab, make sure to add *Environment\Administrators*.

This step enables your GMS administrator to manage configuration objects that GMS reads and writes.



## Create an Application Object



Select the **Accessible Objects** tab. For other GMS objects, you need to set the following permissions:

- Application (GMS/GMS Cluster): Read, Change
- Transactions: Read, Change
- Hosts: Read
- Persons: Read

### Next Steps:

- For a GMS cluster deployment, go to [Cluster Deployment](#).
- For a single node deployment, go to [Single Node Deployment](#).

## Single Node Deployment

Purpose: To create and configure a GMS Application object for a single GMS node (no cluster).

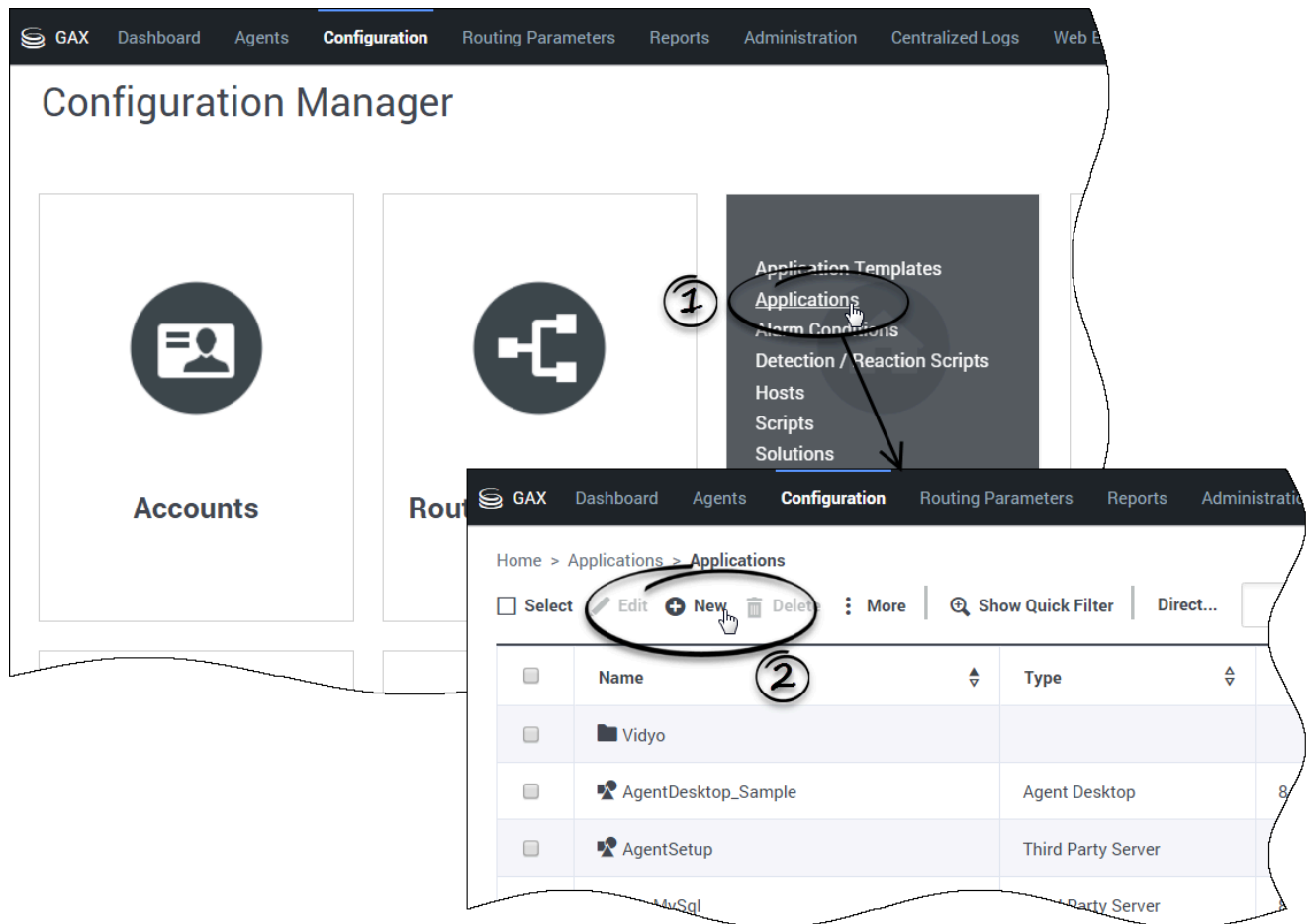
Prerequisites:

- [Import the Application Templates](#)

## Create an Application Object

- Create a GMS Administrator

### Create the GMS Application Object (Single Node)



In the Configuration Manager tab, click the *Applications* link in the Environment menu; then, click **+ New**.

## Create an Application Object

### Browse your template

The screenshot shows the GAX Configuration page with the 'New Properties' form. The 'Name' field is set to 'GMS\_851\_Single'. The 'Template' field is empty, and a circular arrow icon is highlighted with a '1' in a circle. An arrow points from this icon to the 'Select Application Template' dialog. The dialog has a search bar with 'GMS' entered. Below the search bar is a table with the following data:

Name	Type	Version
GMS_851	Genesys Generic Server	8.5.1
GMS_ApplicationCluster_851	Application Cluster	8.5.1

The 'GMS\_851' row is highlighted, and a circular arrow icon is highlighted with a '2' in a circle. A tip at the top right of the dialog says: 'Tip: Use the filter to browse the templates'.

Enter a name for your GMS application (with no space). Click  to browse the GMS template. In **Select Application Templates**, click **Application Templates** and select the GMS\_851 application template that you imported previously.

### General Settings

The screenshot shows the 'New Properties' configuration page in the GAX interface. The page has a dark header with navigation links: GAX, Dashboard, Agents, Configuration, Routing Parameters, Reports, Administration, Centralized Logs, Web Engagement, default, and a help icon. The breadcrumb trail is 'Home > Applications > Applications > New Properties'. On the left, there is a sidebar with tabs: General, Connections, Ports, Tenants, Options, and Application Options. The main content area is titled 'General' and contains the following fields:

- Component type**: A dropdown menu with 'Component' selected.
- Version**: A text input field with '8.5.1' entered.
- Is Application Server**: A checkbox that is checked.
- Working Directory \***: A text input field with '.' entered.
- Command Line \***: A text input field with '.' entered.
- Command Line Arguments**: A text input field with 'dummy' entered.
- Startup Timeout \***: A text input field with '90' entered.
- Shutdown Timeout \***: A text input field with '90' entered.

At the bottom of the form, there are three buttons: 'Cancel', 'Apply', and 'Save'. A handwritten-style annotation 'Scroll down' with an arrow points to the bottom of the form area.

- Select Component for **Component Type**.
- In the **Command Line Arguments** text box, enter a dummy value. It will be overwritten when Genesys Mobile Services is installed; however, having values in these fields is required to save the Application object.

## Create an Application Object

The screenshot shows the 'New Properties' configuration page for an application object. The page has a dark header with navigation links: GAX, Dashboard, Agents, Configuration (selected), Routing Parameters, Reports, Administration, Centralized Logs, Web Engagement, default, and a help icon. Below the header, the breadcrumb trail is 'Home > Applications > Applications > New Properties'. On the left, there is a sidebar with tabs: General, Connections, Ports, Tenants, Options, and Application Options. The main content area contains the following fields and options:

- Startup Timeout\***: 90
- Shutdown Timeout\***: 90
- Auto-Restart**: ☐
- Primary**: ☒
- Host\***: 135.39.45.125 (with a browse icon)
- Certificate**: (empty field)
- Certificate Description**: (empty field)
- Certificate Key**: (empty field)
- Trusted CA**: (empty field)
- Tenant**: Environment (selected)
- State Enabled**: ☒ (highlighted with a red circle)

At the bottom, there are three buttons: Cancel, Apply, and Save.

Check that the **State** is enabled, and browse your hostname for this application.  
Click **Apply** or **Save**.  
Your application is created.

## Configure the GMS Application Object for Single Node

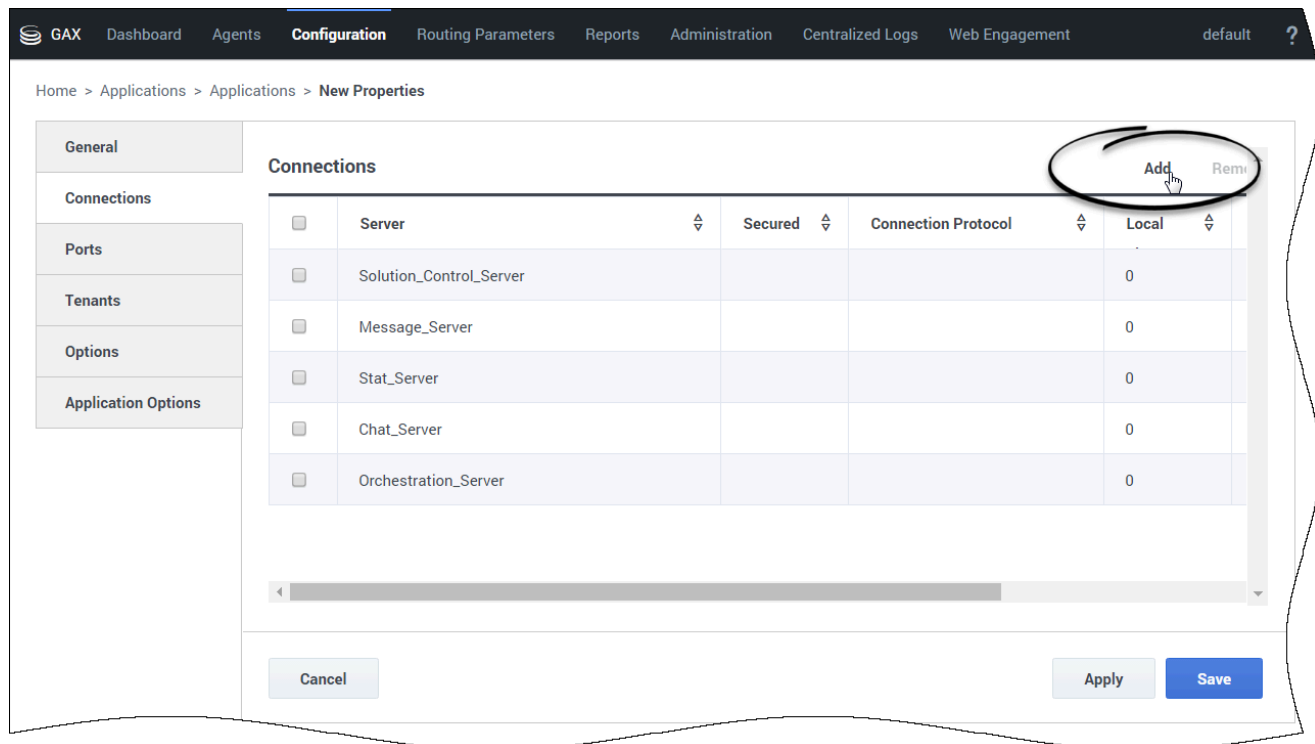
The screenshot shows the GAX dashboard with the 'Configuration' tab selected. The breadcrumb trail is 'Home > Applications > Applications > GMS\_851\_Single Properties'. The page has a sidebar with tabs: General, Connections, Ports, Tenants, Options, Permissions, Dependencies, and Application Options. The 'General' tab is active. The configuration fields are as follows:

- Timeout \***: 10 (Handwritten note: *Must not be checked!*)
- Attempts \***: 1
- Login As System**: ☐ (Handwritten circle around the checkbox)
- Login As Account \***: bobdemo (Handwritten circle around the field, with a note: *Browse the GMS admin*)
- Certificate**: (Empty field)
- Certificate Description**: (Empty field)
- Certificate Key**: (Empty field)
- Trusted CA**: (Empty field)
- Tenant**: Environment (Dropdown menu)
- State Enabled**: ☒

At the bottom, there are three buttons: Cancel, Apply, and Save.

In the General tab, uncheck **Log On As System** option and browse your GMS Admin account to set up **Log On Account**. If you do not set up **Log On Account**, the GMS Admin UI will throw permission errors when you will try to create GMS Built-in services.

### Set up your Connections

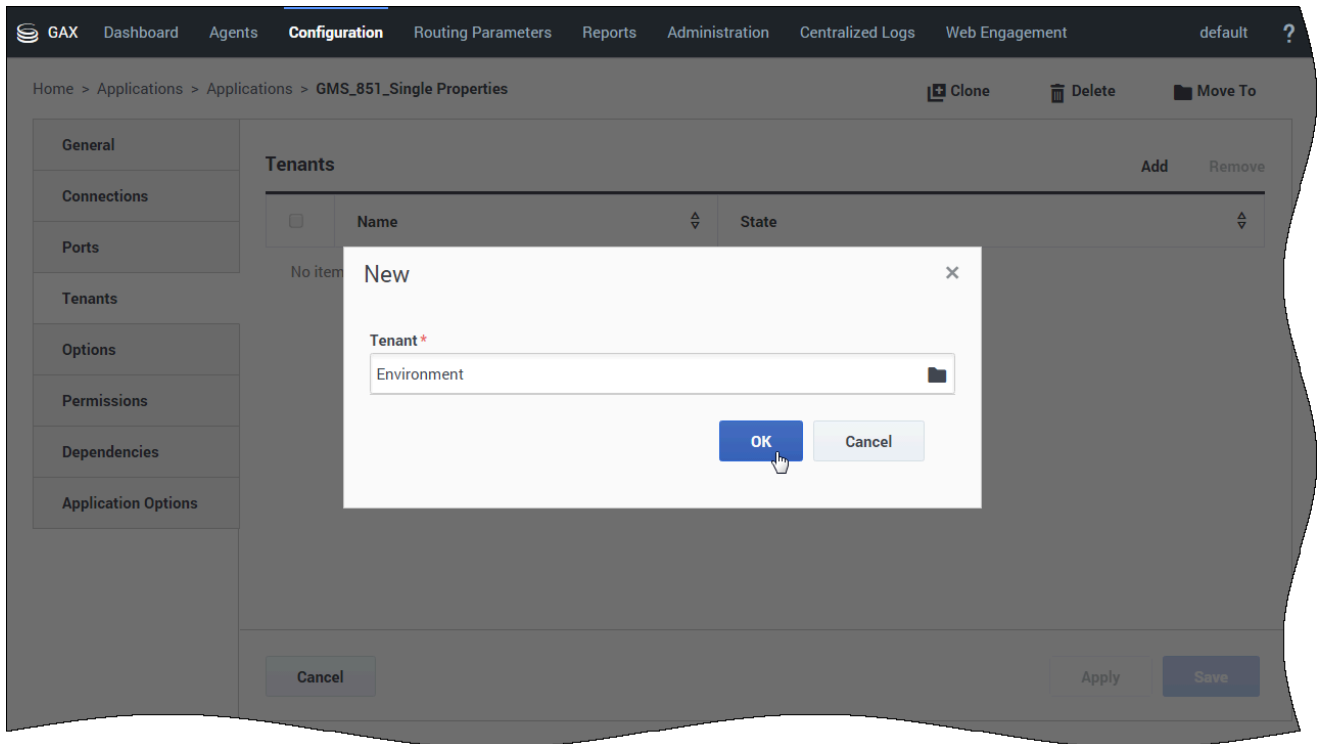


In the **Connections** tab, click **Add** to add the following connections:

- Orchestration Server (ORS) - optional: Add this connection (using HTTP) if you plan to use GMS Callback features.
- Solution Control Server - optional: Add this connection if you plan to use GMS Chat features.
- Chat Server - optional: Add this connection if you plan to use GMS Chat features.
- Stat Server - optional: Add this connection if you plan to use GMS Reporting features.
- Message Server - optional: Add this Connection if you plan to use Log features.
- URS Server - optional: Add this Connection if you plan to use EWT features.

In the **Ports** tab, check that a default dummy port is created.

### Set up Server Information



In the *Tenants* tab, click **Add** to set up the list of tenants that use your Genesys Mobile Services application.



## Create an Application Object

### Verify your Metadata

The screenshot shows the GAX Configuration page for 'GMS\_851\_Single Properties'. The left sidebar contains a menu with 'General', 'Connections', 'Ports', 'Tenants', 'Options', 'Permissions', 'Dependencies', and 'Application Options'. The main content area is titled 'Options' and features a 'Quick Filter' search bar. Below the search bar is a table with columns 'Key' and 'Value'. The table contains three rows: a header row, a row with a dropdown arrow and the text 'metadata', and a row with the text 'app-template' and a long alphanumeric string. To the right of the table is a context menu with 'Import' and 'Export' buttons. A hand icon is pointing at the 'Import' button. A black arrow points from the text 'You can import' to the 'Import' button. At the bottom of the page are 'Cancel', 'Apply', and 'Save' buttons.

Home > Applications > Applications > GMS\_851\_Single Properties

Clone Delete Move To default

General

Connections

Ports

Tenants

Options

Permissions

Dependencies

Application Options

Options

Quick Filter

Delete Add More

Import

Export

Import

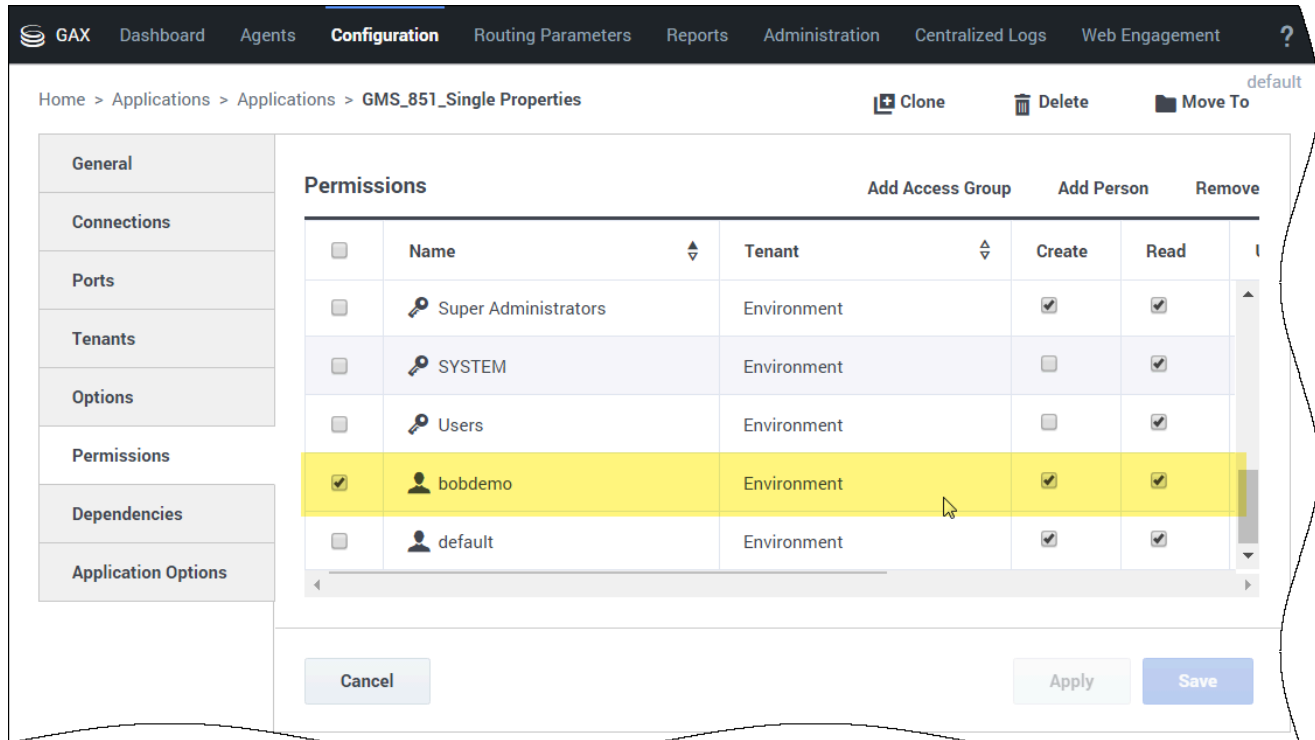
You can import

Cancel Apply Save

You may need to these metadata, for instance, if you are installing a Context Services application.

## Create an Application Object

### Set up Permissions for GMS Users



The screenshot shows the GAX Configuration page for 'GMS\_851\_Single Properties'. The left sidebar contains a menu with options: General, Connections, Ports, Tenants, Options, Permissions (selected), Dependencies, and Application Options. The main area displays the 'Permissions' tab with a table listing users and their permissions. The table has columns for Name, Tenant, Create, and Read. The 'bobdemo' user is highlighted in yellow. Below the table are 'Cancel', 'Apply', and 'Save' buttons. The top navigation bar includes links to Dashboard, Agents, Configuration, Routing Parameters, Reports, Administration, Centralized Logs, and Web Engagement.

Name	Tenant	Create	Read
Super Administrators	Environment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SYSTEM	Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Users	Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>bobdemo</b>	Environment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
default	Environment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

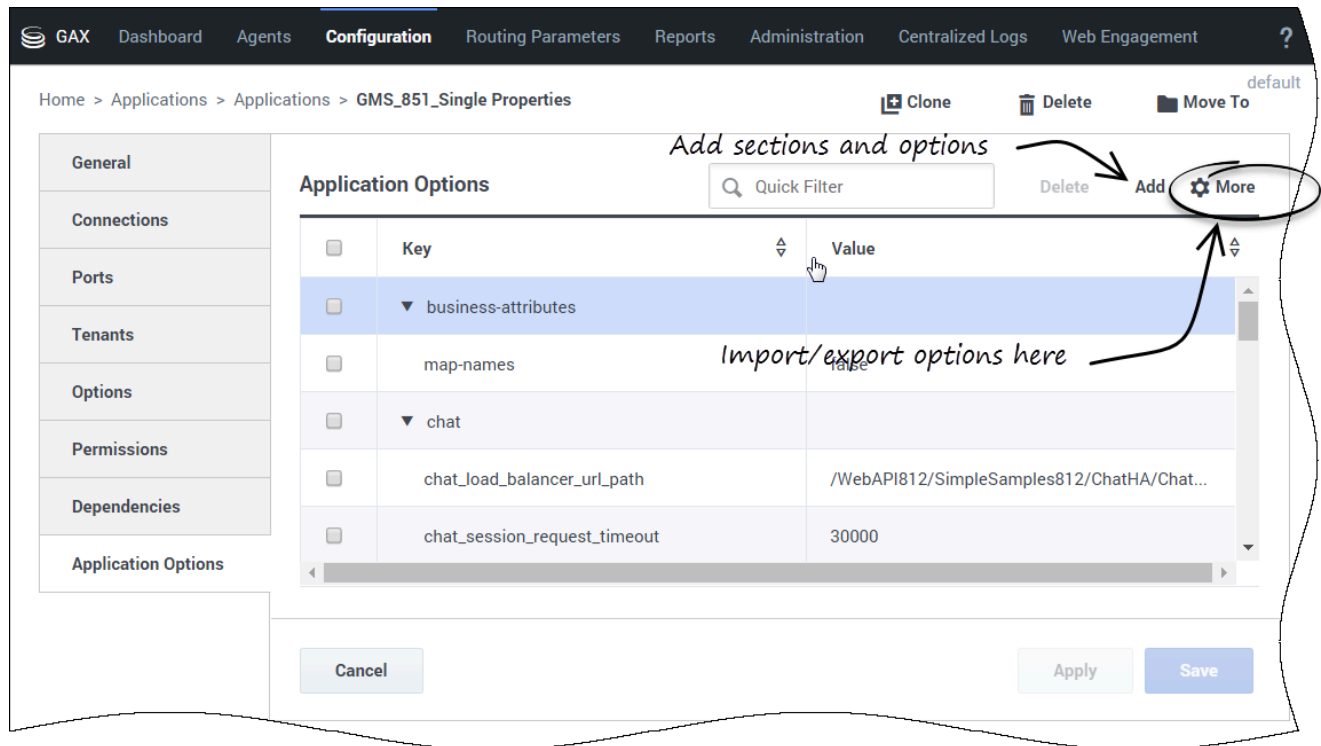
In the *Permissions* tab, you must add a user that is allowed to read/write data into GMS related configuration objects (for example, GMS Application, Transaction Lists for Resources/Patterns, and so on).

To do this, either click **Add Access Group** to browse the **Environment\Administrators** or **Add User** to browse the GMS Administrator set up previously.

Alternatively, you can simply use the *Default* user, which is already part of the Administrator Group.

## Create an Application Object

### Set up GMS options



In the **Application Options** tab, you can set up all your GMS options. Refer to the [Options reference](#) for details and check further chapters of this book. For Digital Channels API configuration options, refer to [Configuring the Digital Channels API](#).

You can now save and close your GMS application object.

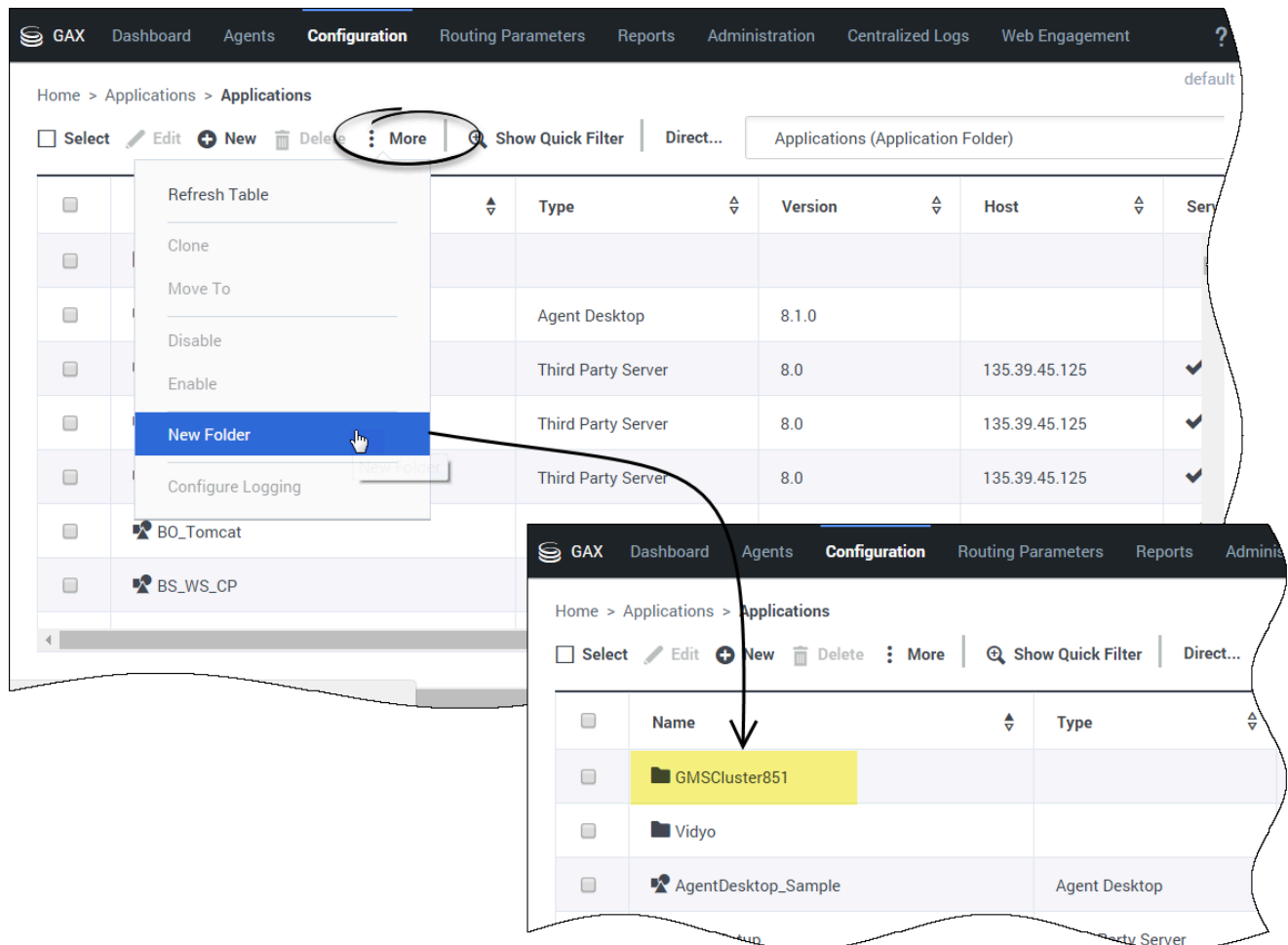
**Next Steps:** [Install Genesys Mobile Services](#).

## Cluster Deployment

Purpose: To create and configure a GMS Application Cluster object for Genesys Mobile Services.

Prerequisites: [Import the Application Templates](#).

### Create a folder for the GMS cluster (Best practice)



In the Configuration Manager tab, click the Applications link in the Environment menu; then, click More > New Folder to create a folder that will contain all of your application nodes. Set the new folder to a meaningful name, such as *GMScluster851*.

#### Important

Do not use spaces in the folder name.

## Create a GMS cluster application

The screenshot shows the GAX Configuration page for creating a new application cluster. The breadcrumb trail is: Home > Applications > Applications > GMSCluster851 > New Properties. The page has a sidebar with tabs: General, Connections, Ports, Tenants, Options, and Application Options. The main form contains the following fields:

- Name \***: GMSApplicationCluster\_851
- Template \***: ApplicationCluster\_851
- Type**: Application Cluster
- Component type**: Unknown Component Type
- Version**: 8.5.1
- Is Application Server**: ☒

At the bottom of the form are three buttons: Cancel, Apply, and Save.

Create a new application with the wizard (as detailed for a single node), but use the **ApplicationCluster\_851.apd** template instead of the regular template.

- Select **Unknown Component Type** in Component type.

### Important

Do not use spaces in the application cluster name.

## Set the Cluster General Settings

## Create an Application Object

The screenshot shows the GAX Configuration interface. The top navigation bar includes links for GAX, Dashboard, Agents, Configuration (highlighted), Routing Parameters, Reports, Administration, and Centralized Logs. Below the navigation bar, the breadcrumb trail reads: Home > Applications > Applications > GMSCluster851 > New Properties. The main content area is titled 'Web Engagement' and 'default'. On the left, a sidebar menu lists: General (selected), Connections, Ports, Tenants, Options, and Application Options. The 'General' tab is active, showing several configuration fields: 'Working Directory \*' (empty), 'Command Line \*' (empty), 'Command Line Arguments' (containing 'dummy'), 'Startup Timeout \*' (90), 'Shutdown Timeout \*' (90), 'Auto-Restart' (unchecked), 'Primary' (checked), and 'Host \*' (135.39.45.125). At the bottom of the form are three buttons: 'Cancel', 'Apply', and 'Save'.

- Type dummy values in *Working Directory* field; this option will be overwritten when Genesys Mobile Services is installed; however, having values in these fields is required to save the Application object.
- Uncheck **Log On As System** option and browse to your GMS Admin account to set up **Log On Account**. If you do not set up **Log On Account**, the GMS Admin UI will throw permission errors when you will try to create GMS Built-in services.
- Check that the State is enabled, and browse your hostname for this application.

Click **Apply** or **Save**. Your application is created.

## Create an Application Object

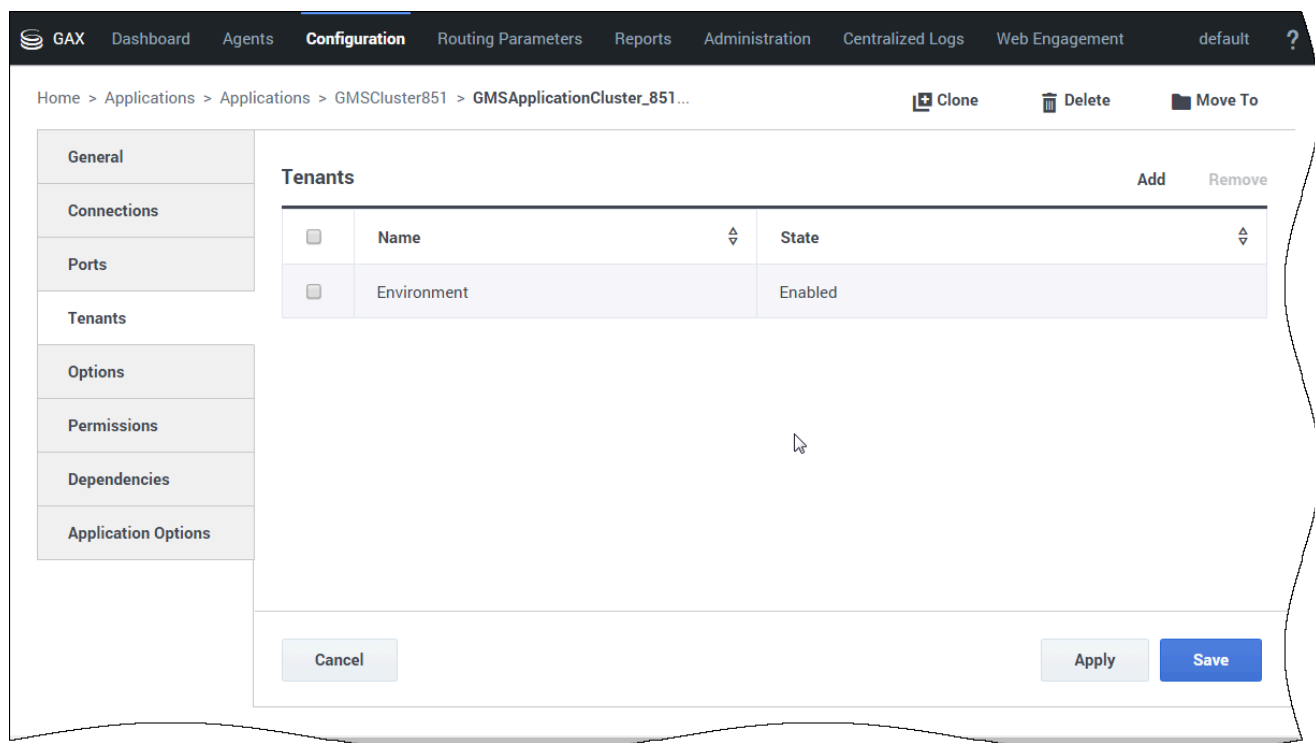
The screenshot shows the GAX Configuration page for GMSApplicationCluster\_851... The left sidebar contains a menu with the following items: General, Connections, Ports, Tenants, Options, Permissions, Dependencies, and Application Options. The main content area is titled 'Connections' and features a table with columns: Server, Secured, Connection Protocol, and Local. The table lists five connections: Solution\_Control\_Server, Stat\_Server, Chat\_Server, and Orchestration\_Server. Each row has a checkbox in the first column and a value of 0 in the Local column. Above the table are 'Add' and 'Remove' buttons. Below the table are 'Cancel', 'Apply', and 'Save' buttons. The top navigation bar includes links for GAX, Dashboard, Agents, Configuration, Routing Parameters, Reports, Administration, Centralized Logs, Web Engagement, and default.

Server	Secured	Connection Protocol	Local
<input type="checkbox"/> Solution_Control_Server			0
<input type="checkbox"/> Stat_Server			0
<input type="checkbox"/> Chat_Server			0
<input type="checkbox"/> Orchestration_Server			0

Set the *Connections* list and specify all of the servers to which Genesys Mobile Services must connect:

- Orchestration Server (ORS) - optional: Add this connection (using HTTP) if you plan to use GMS Callback features.
- Solution Control Server - optional: Add this connection if you plan to use GMS Chat features.
- Chat Server - optional: Add this connection if you plan to use GMS Chat features.
- Stat Server - optional: Add this connection if you plan to use GMS Reporting features.
- Message Server - optional: Add this Connection if you plan to use Log features.
- URS Server - optional: Add this Connection if you plan to use EWT features.

## Create an Application Object



- In the Tenants section, click **Add** to set up the list of tenants that use your Genesys Mobile Services applications (one or more in a multi-tenant environment).

## Create and Configure a GMS Application Node (Cluster)

Purpose: To create and configure a GMS Application object for a GMS node that is part of a cluster.

Prerequisites:

- [Import the Application Templates](#)
- [Create a GMS Administrator](#)
- [Create the GMS Application Cluster Object](#)



## Create an Application Object

### Create your nodes

The screenshot shows the GAX Configuration page for 'GMS\_851\_Node1 Properties'. The left sidebar contains a menu with 'General', 'Connections', 'Ports', 'Tenants', 'Options', 'Permissions', 'Dependencies', and 'Application Options'. The 'Connections' tab is selected, displaying a table with columns: 'Server', 'Secured', 'Connection Protocol', and 'Local'. The table has two rows: one for 'Server' and one for 'GMSApplicationCluster\_851'. The 'Local' column shows the value '0'. At the bottom of the table are 'Cancel', 'Apply', and 'Save' buttons.

Server	Secured	Connection Protocol	Local
<input type="checkbox"/>			
<input type="checkbox"/>			0

To create a GMS Node, you must create a **GMS application** in your newly created Application Cluster folder.

### Important

Make sure to **set up permissions** for all nodes.

When setting your node connections, add the GMS Application Cluster that you just created previously.

## Create an Application Object

The screenshot shows the GAX Configuration page for 'GMS\_851\_Node2 Properties'. The left sidebar contains a menu with 'Application Options' selected. The main area displays a table of application options. The 'node\_id' field is highlighted in yellow and contains the value '2'. The 'server' section is expanded, showing a list of options: external\_url\_base, node\_id, web\_port, web\_scheme, and web\_host. The 'node\_id' field is highlighted in yellow. The 'server' section is expanded, showing a list of options: external\_url\_base, node\_id, web\_port, web\_scheme, and web\_host. The 'node\_id' field is highlighted in yellow. The 'server' section is expanded, showing a list of options: external\_url\_base, node\_id, web\_port, web\_scheme, and web\_host. The 'node\_id' field is highlighted in yellow.

Key	Value
external_url_base	http://127.0.0.1:8080/
node_id	2
web_port	8080
web_scheme	http
web_host	myhostname

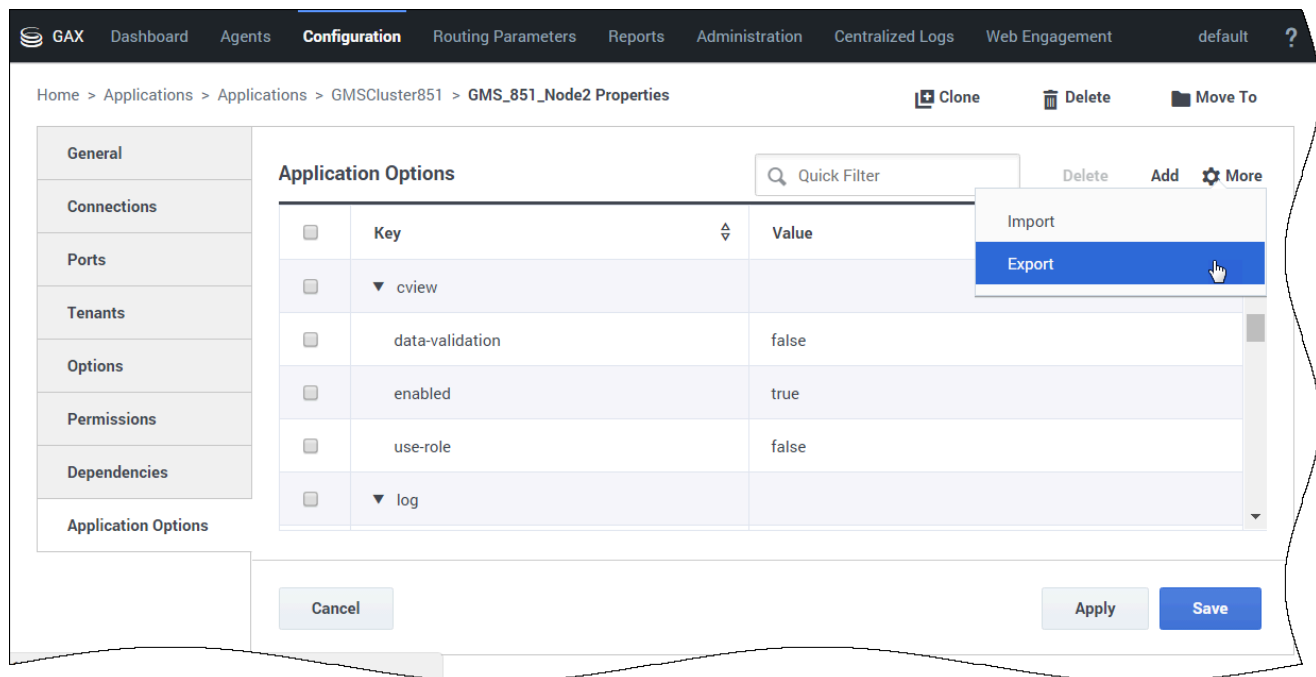
For each node, select the **Application Options** tab and configure `node_id` in the **server** section. The node ID is used to identify each GMS node and will be used for resource allocation, access code, and more. `node_id` must be unique and must be defined in each GMS application, and not at Cluster level.

Configure the following optional parameters in the **server** section if you need to force GMS to discover your nodes:

- `web_host`
- `web_port`
- `web_scheme`

`web_host` is used for GMS communications between other GMS nodes and other servers like ORS and URS. When used with `web_port` and `web_scheme`, `web_host` enables you to build the GMS address for other servers that need to communicate with GMS.

### Share Options Across the GMS Cluster



Set up additional configuration options in one of your nodes (as detailed in further chapters), and then click **Export** to save these options to a file.

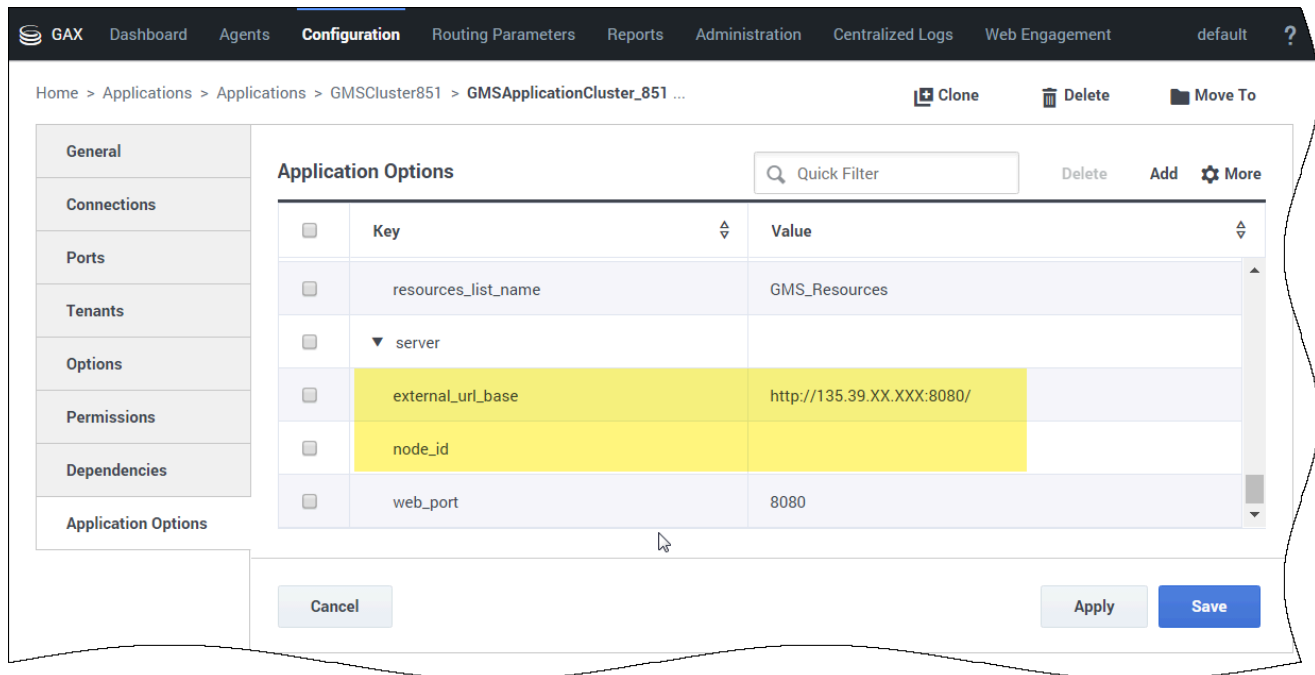
Then:

1. Remove all these options from your node, and save.
2. Edit the GMS Application Cluster and click **Import** in the **Options** tab to load the options file.
3. Make sure to remove the `node_id` setting from your cluster's configuration.

#### Tip

You can set up options in your GMS node, but these options will not be shared. This is useful to set specific settings for Cassandra storage, logs, and more.

### Enable Load Balancing in your Cluster Application



The screenshot shows the GAX Configuration page for GMSApplicationCluster\_851. The 'Options' tab is selected, displaying a table of application options. The 'external\_url\_base' option is highlighted in yellow. The table has columns for 'Key' and 'Value'. The 'external\_url\_base' key has a value of 'http://135.39.XX.XXX:8080/'. Other options include 'resources\_list\_name' (GMS\_Resources), 'server' (expanded), 'node\_id', and 'web\_port' (8080). The 'Cancel', 'Apply', and 'Save' buttons are at the bottom.

Key	Value
resources_list_name	GMS_Resources
server	
external_url_base	http://135.39.XX.XXX:8080/
node_id	
web_port	8080

In the Options tab of your GMS Cluster application, section server, select external\_url\_base.

Set this option to the external URL of your cluster's load balancer, which will receive the requests submitted by your client applications.

#### Important

This step ensures that all GMS Nodes will share the same load balancer. See [the Options reference for more details](#).

You can now save and close your GMS application cluster object.

**Next Steps:** You must now install Genesys Mobile Services for each node of the cluster.