



Cisco Kinetic for Cities Dashboard Admin Guide

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1. About This Document

This document explains the operations which can be done by an admin using Cisco Kinetic for Cities Dashboard Web Interface. These operations are in addition to the usual operations which an operator can perform.

1.1 References

Table 1 lists documents and other reference sources containing information that may be essential to understand topics in this document.

Table 1 References

No.	Doc Name	Description
1	Dashboard User Guide	Explains all the operations which can be performed by an operator. It is available as an online help document in the dashboard web application.

1.2 Terminology

Table 2 provides a short glossary of any terms crucial for the understanding of this document, and lists the acronyms and abbreviations used in the document.

Table 2 Terminology

Term	Definition
CKC	Cisco Kinetic for Cities
R	Read Only Access
R/W	Read and Write Access

2. Introduction

Every user of CKC Dashboard will have privileges depending on the assigned roles. These roles will be assigned R/R-W access to specific domains. Any new user created in the system will be assigned a particular role via the CKC Dashboard.

Users with the ADMIN role have access to all the domains and also have read and write capabilities for those domains.

Any user with ADMIN role, apart from performing operator's functions, can also use Dashboard web application for:

1. Creating new users in CKC.
2. Assigning role(s) to the user.
3. Assigning location(s) to the user.
4. Editing User details.
5. Adding New Regions.
6. Editing existing Regions.
7. Deleting Regions.

Note:

Restricting origin header is a known limitation in CKC as APIs are CKC's main selling point and the customers develop their own customized Dashboard on top of CKC APIs and this will be picked at runtime from the browser. From security perspective we have implemented authentication based WebSocket access for all the API requests.

3. Creating Users

As a user with ADMIN role, you can create and add new users to the system.

Perform following steps for a new user creation.

1. Login to Dashboard interface as an admin.

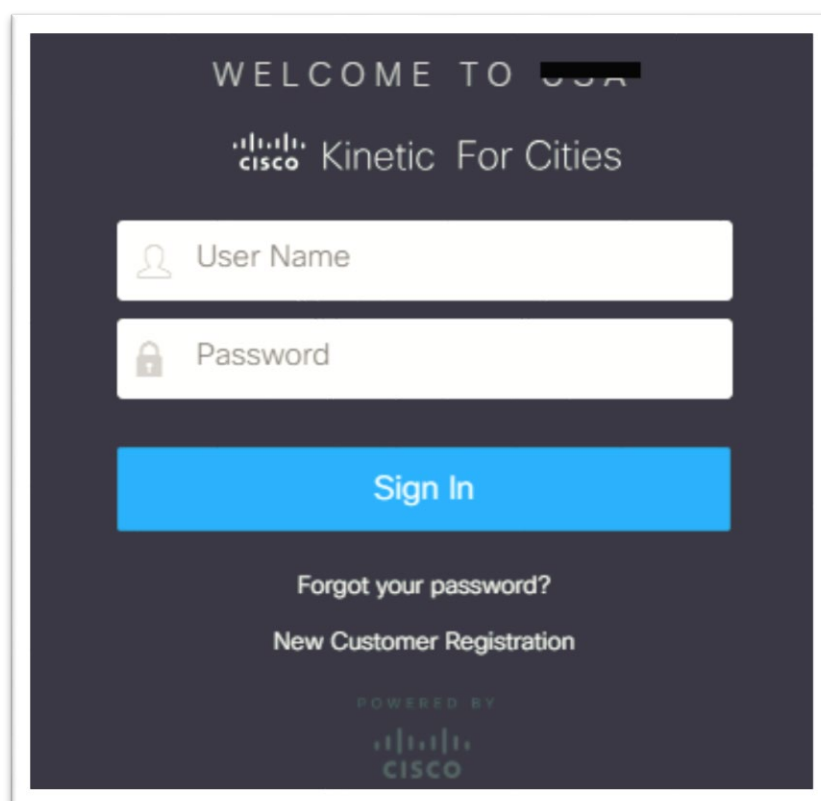


Figure 1 : Login Screen

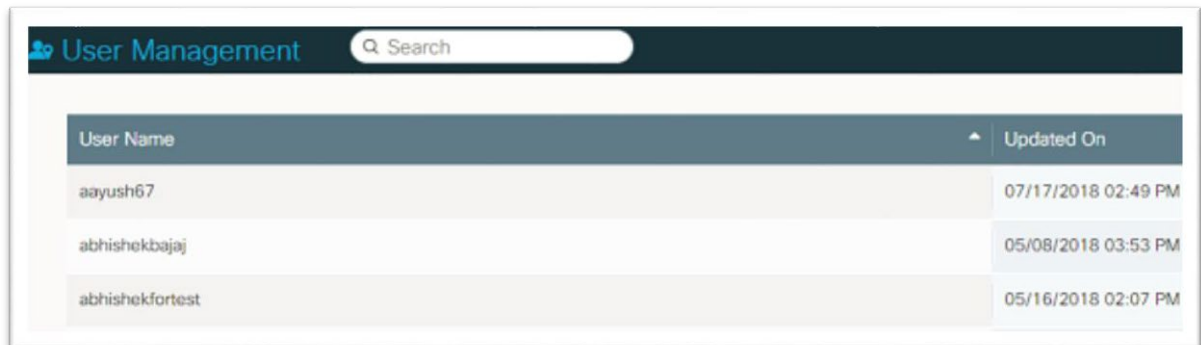
On successful login, you would be redirected to the dashboard page, with a top navigation menu bar.

2. Click the **Users** tab located on top navigation menu.



Figure 2 : Dashboard Navigation Menu


User Management page gets displayed. If some users already exist in the system, then their User Name, last Updated date gets displayed.



The screenshot shows the 'User Management' page with a search bar and a table of users. The table has two columns: 'User Name' and 'Updated On'.

User Name	Updated On
aayush67	07/17/2018 02:49 PM
abhishekbajaj	05/08/2018 03:53 PM
abhishekfortest	05/16/2018 02:07 PM

Figure 3: User Management

- Click  **Create** located on top right corner of the page.

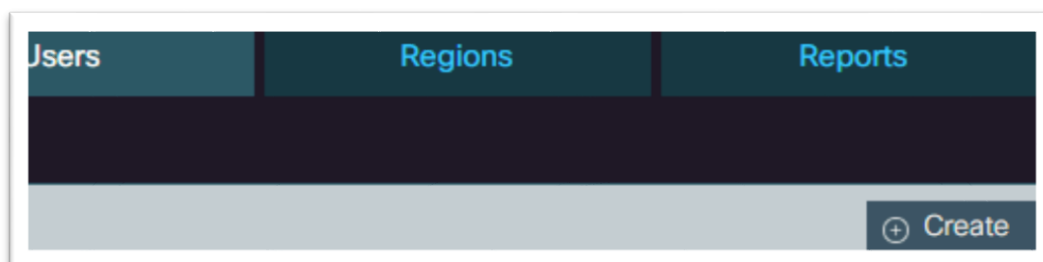


Figure 4: Create button on User Management Page

New User Creation page is displayed.

The screenshot shows a 'New User Creation Page' with three tabs: 'User Details' (active), 'Role Details', and 'Location Details'. The 'User Details' tab contains four mandatory fields, each indicated by a red asterisk: 'Name', 'Phone Number' (which includes a country code dropdown menu currently showing the US flag), 'User Name', and 'Email ID'. At the bottom of the form are two buttons: 'Cancel' and 'Save'.

Figure 5: New User Creation Page

4. Enter the details of the new user on the **User Details** tab.

Below table lists the description for each of the field:

Table 3 User Fields Description

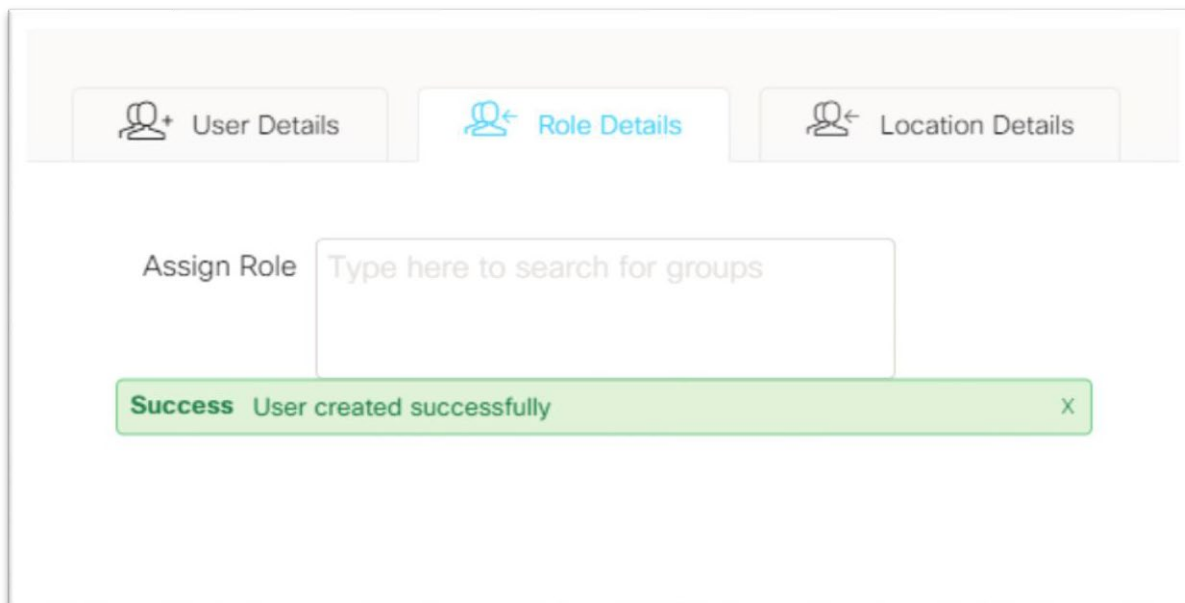
Field	Description
*Name	Name of the user to be added to the system.
*Phone Number	Contact number of the user along with country code.
*User Name	The user name to be used while logging to the application.
*Email ID	Email id of the user where a link for creating password would be sent.

*All the fields are mandatory

5. Click

Save

You would be redirected to the **Role Details** tab with a success message as shown below:

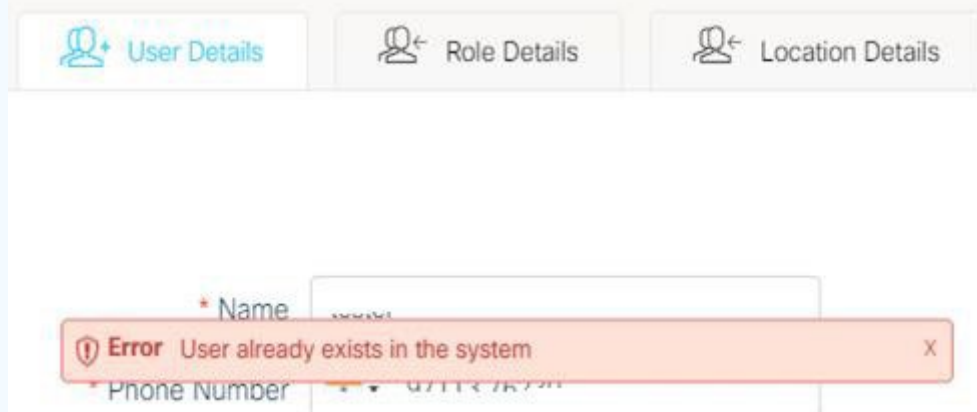


The screenshot shows a web interface with three tabs: "User Details", "Role Details", and "Location Details". The "Role Details" tab is active. Below the tabs, there is a section labeled "Assign Role" with a search input field containing the placeholder text "Type here to search for groups". A green success message banner is displayed at the bottom, stating "Success User created successfully" with a close button (X).

Figure 6: Successful User Creation

Notes

Please note the entered User Name should be unique. The System would throw an error as shown below if provided User Name matches with any of the existing record.



The screenshot shows a web interface with three tabs: "User Details", "Role Details", and "Location Details". The "User Details" tab is active. Below the tabs, there is a form with fields for "Name" and "Phone Number". A red error message banner is displayed at the bottom, stating "Error User already exists in the system" with a close button (X).

4. Role Assignment

The role determines the tabs and domains that would be accessible to a user on logging into the Dashboard. It also decides the R/W permissions that a user would have over a domain.

The Roles are added to the system through WSO2 portal and R/W permissions over domains are configured from Key Management portal. The creation of new roles and configuration of permissions is done by a DevOps Admin as per customer's requirement.

By default, following four roles are created by the DevOps Admin. Each role should have at least one user.

Table 4 Roles Description

Role	Description
DEVOPS_ADMIN	<ul style="list-style-type: none"> - Can add new roles in WSO2 portal. - Can configure permissions in Key Management portal.
SENSOR_CUSTOMER	<ul style="list-style-type: none"> - Has R/W access over all domains and all regions. - Can create new users and add new regions. - Can customize tabs for different roles. - Can configure customer's details.
CDP_ADMIN	<ul style="list-style-type: none"> - Has R/W access over all domains and all regions. - Can create new users and add new regions.
CDP_OPERATOR	<ul style="list-style-type: none"> - Has access over configured domains only. - Can have either R or R/W permission configured.

A customer may need roles having access to a specific domain or multiple domains with R only or R/W permissions. Such roles can be LightOperator, ParkingOperator etc. which are named and configured as per customer's requirement.

Once configured at the backend, these roles appear as a prepopulated list in the User Management section of the Dashboard under Role Details tab.

As an admin, you can select a role from this list and assign it to new or existing user.

Perform following steps for assigning a role.

1. Click the **Role Details** tab.
2. Click on **Assign Role** text area.

A dropdown menu containing the list of all available Roles in the system gets displayed.

Notes

In earlier version of CKC, a number of roles were grouped together under a Group. Current version supports the concept of Roles only.

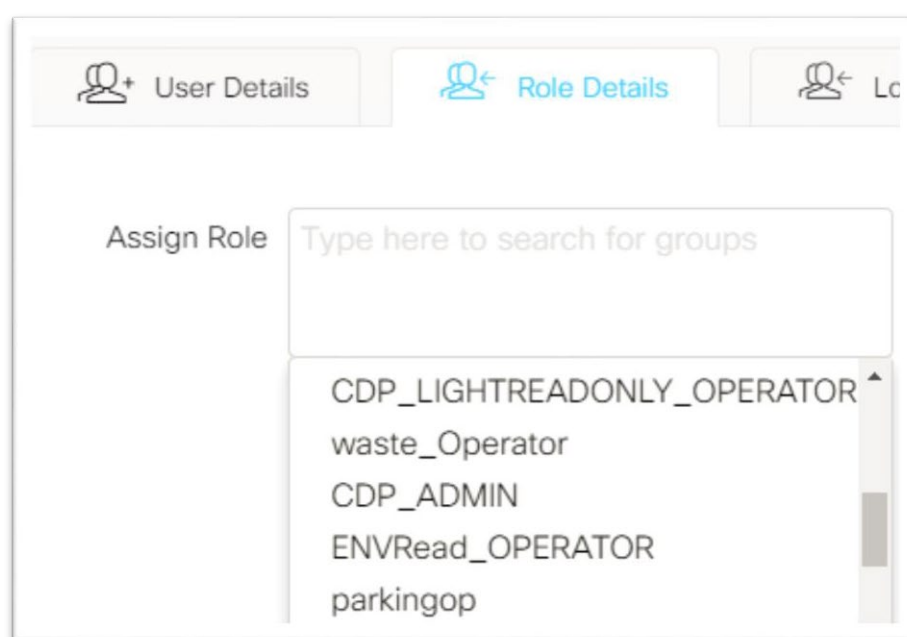


Figure 7: Available Roles

3. Select the roles from the list one by one that a user can have.

The page reloads after every selection and a success message gets displayed as shown below.

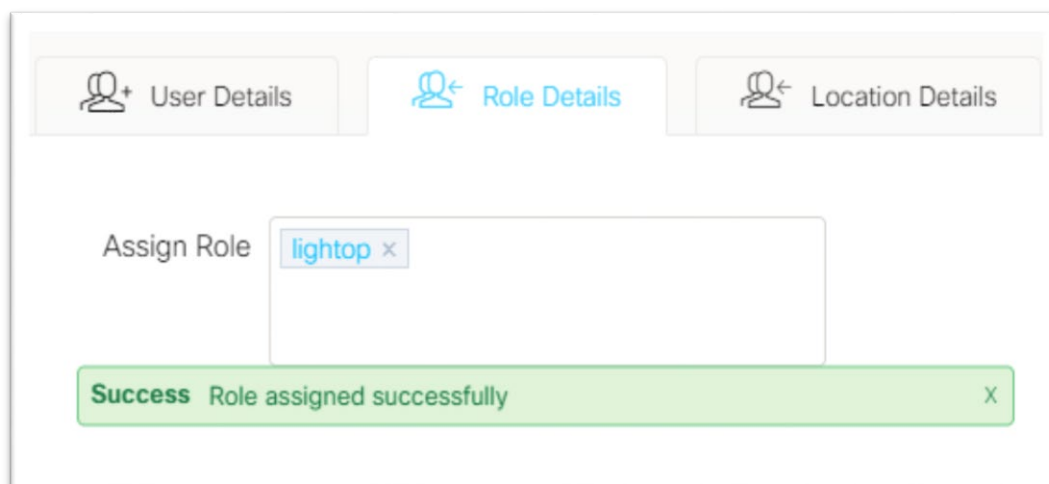


Figure 8: Successful Role Assignment

IMPORTANT!

Please ensure that, every role being assigned, has at least a minimum of one tab configured against it. A user can only login to the Dashboard application if her assigned role has access over domain and as well as over tabs.

Only a 'SENSOR_CUSTOMER' user can log into the dashboard without any assigned tab and would get redirected to 'Settings' page.

An error message as shown below is seen by the logged in user if the assigned role does not have permission over any tab.



Figure 9: Login Error

Notes

In order to get tabs assigned/customized for a role, please contact "SENSOR_CUSTOMER" user.

5. Location Assignment

After user creation and role assignment, you have to assign locations to the user.

IMPORTANT!

A user without any assigned locations would not be able to login to the Dashboard web application.

Perform following steps for assigning locations to the created user.

1. Click the **Location Details** tab.
2. Click **Root** to expand it.

All the available locations under Root folder get displayed. These locations can be configured by an admin. Please refer section “Creating Regions” for more details.

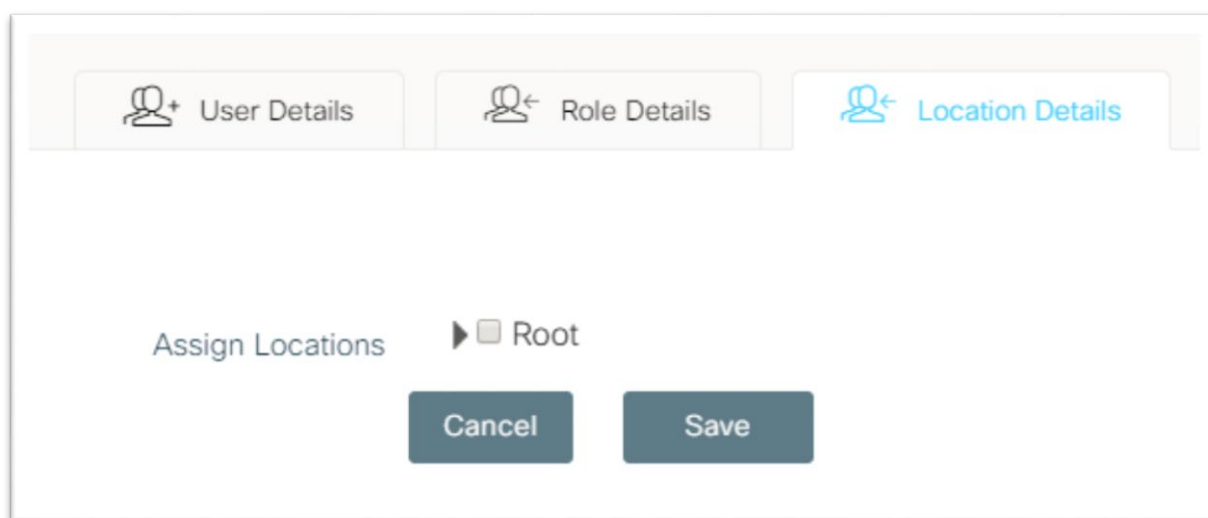
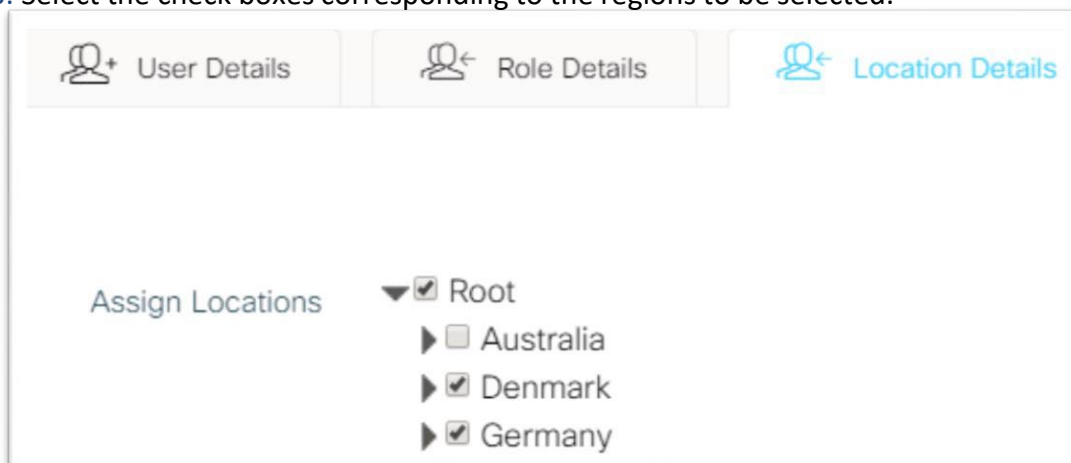


Figure 10: Location Details

3. Select the check boxes corresponding to the regions to be selected.



The screenshot shows the 'Location Details' tab with three sub-tabs: 'User Details', 'Role Details', and 'Location Details'. The 'Location Details' tab is active. Below the tabs, there is a section titled 'Assign Locations'. It shows a tree structure with 'Root' selected (checked checkbox). Under 'Root', there are three items: 'Australia' (unchecked checkbox), 'Denmark' (checked checkbox), and 'Germany' (checked checkbox).

Figure 11: Locations Selection

4. Click **Save**.

You would be redirected to User Management page with a success message as shown below.

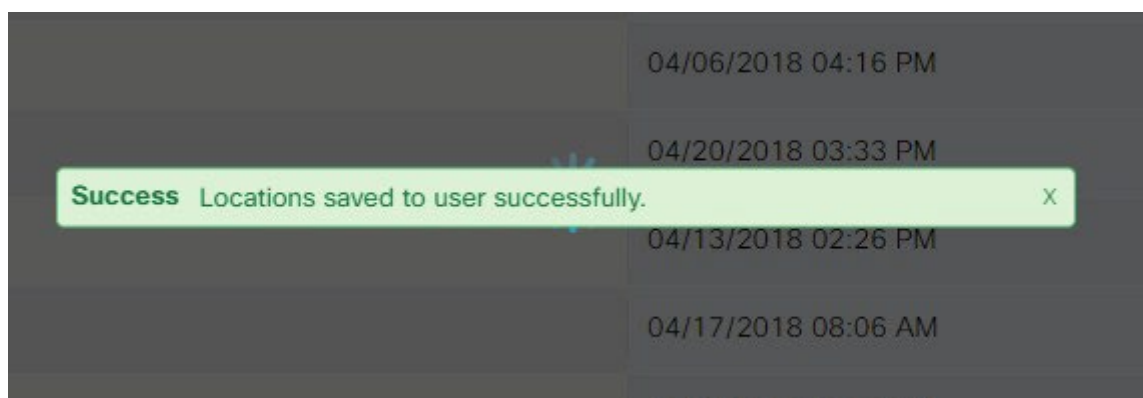


Figure 12: Location Assignment Message

An email is sent out to the created user with a link to set the password. It also contains the password rule that must be followed to create the password as per policy.

Below is the snapshot of the email that is received by the created user:

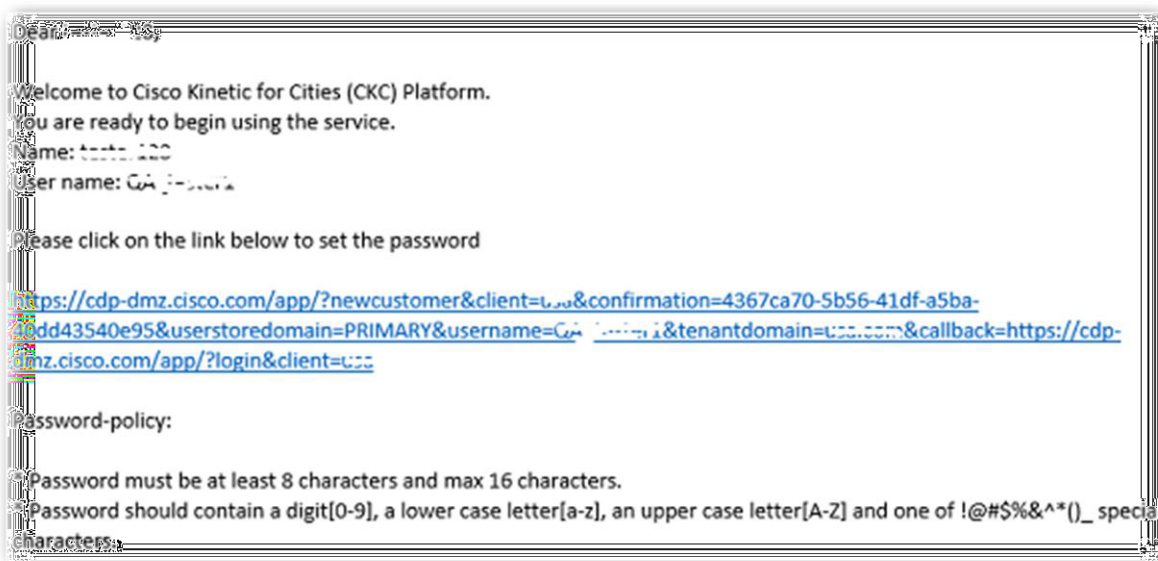


Figure 13 : Email Received by the Created User

6. Searching User

A user existing in the system can be searched by using the search feature available in User management module.

Perform following steps for searching an existing user.


1. Click the **Users** tab on top navigation menu.
2. Enter three or more consecutive characters of the 'User Name' or of the 'Updated On' date which needs to be searched in the Search box.

All the matching records get displayed.



Figure 14: Search User

Notes

The search term can be removed using  located in search box or by using Backspace key. This would reset the displayed records to default list.

7. Editing User


Admin can edit user details such as Name, Phone Number, Email ID, Role and Location details.

Notes

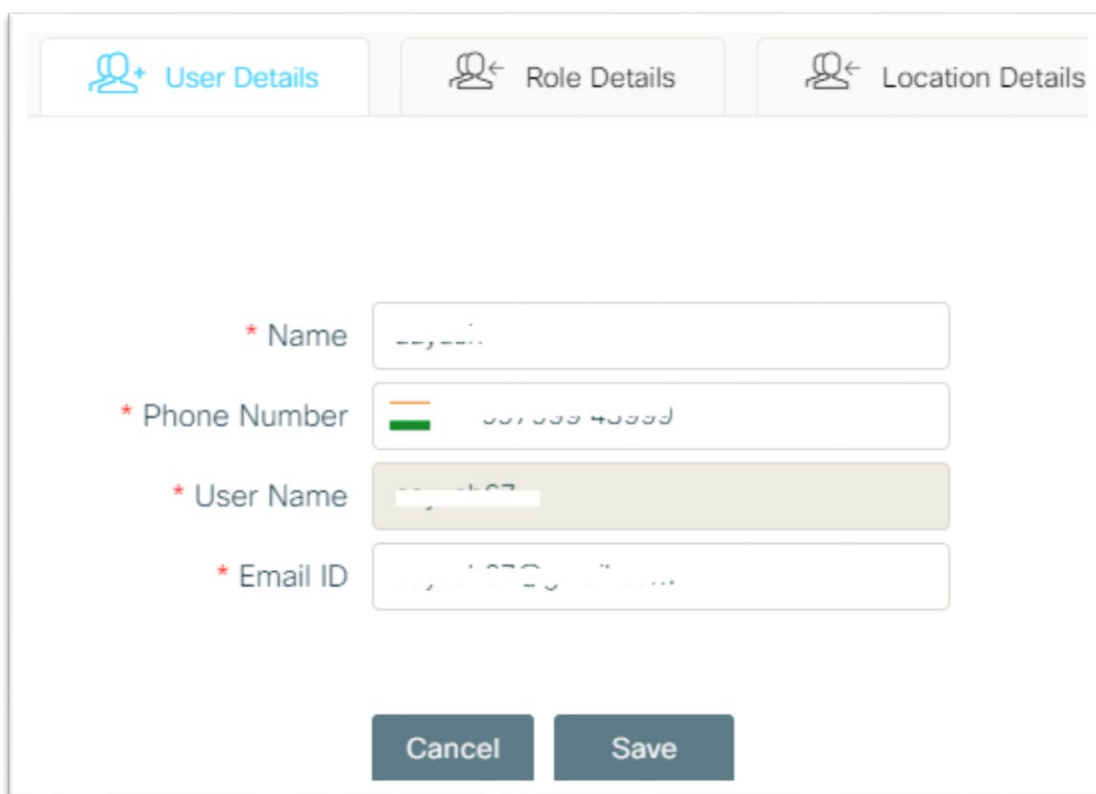
User Name once created cannot be edited.

7.1 Editing User Details

Perform the following steps to edit the details for an existing user.

1. Click the **Users** tab on top navigation menu.
2. Search or scroll for the Username whose details have to be edited.
3. Click  present against the username.

You would be redirected to **“Edit User”** page as shown below:



The screenshot shows the 'Edit User' interface. At the top, there are three tabs: 'User Details' (selected), 'Role Details', and 'Location Details'. Below the tabs, there are four input fields, each preceded by a red asterisk (*):

- Name**: A text input field.
- Phone Number**: A text input field with a small flag icon (orange and green) on the left.
- User Name**: A text input field with a yellow background highlight.
- Email ID**: A text input field.

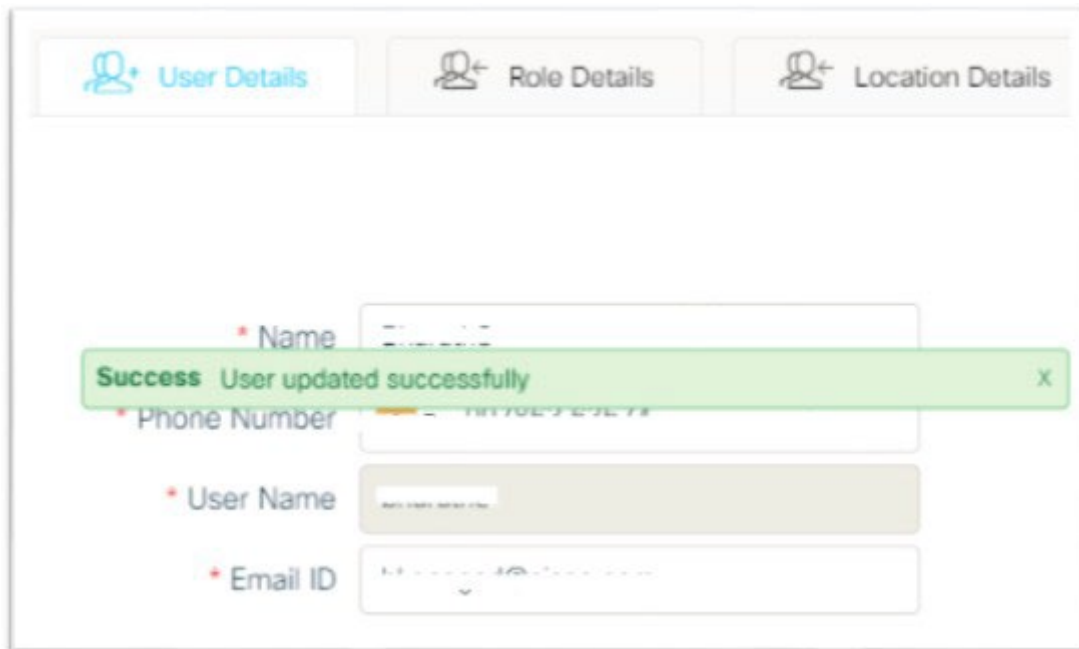
At the bottom of the form, there are two buttons: 'Cancel' and 'Save'.

Figure 15: Edit User Screen

4. Edit the field(s) in the User Details tab as per the requirement.

5. Click .

Success message gets displayed as shown below:




The screenshot shows a web interface with three tabs: 'User Details' (active), 'Role Details', and 'Location Details'. Below the tabs, there are four input fields: 'Name', 'Phone Number', 'User Name', and 'Email ID'. A green success message banner is displayed over the 'Name' field, reading 'Success User updated successfully' with a close button (X) on the right. The 'Name' field contains the text 'Srinivas'. The 'Phone Number' field contains '9876543210'. The 'User Name' field contains 'Srinivas Srinivas'. The 'Email ID' field contains 'Srinivas.Srinivas@gmail.com'.

Figure 16: User Update Message

7.2 Editing Role Details

Follow steps 1 to 3 as mentioned in Editing User Details section and then perform the following steps:

1. Click the **Role Details** tab.
2. To remove an assigned role, Click  present against the role name or use Backspace key. A success message as shown below gets displayed.

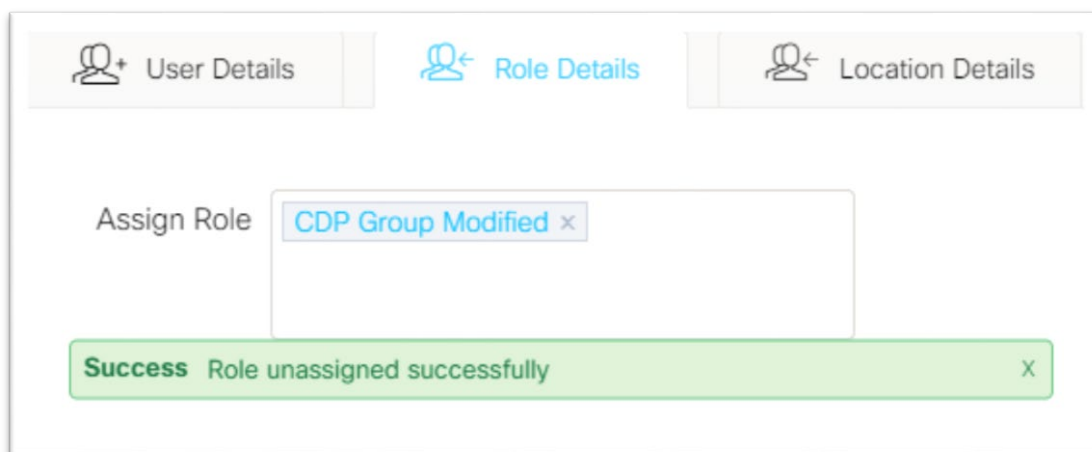


Figure 17: Role Removal

3. To assign a new role to the user, click on the text area and select the Role to be assigned.

Success message on role assignment appears as shown below:

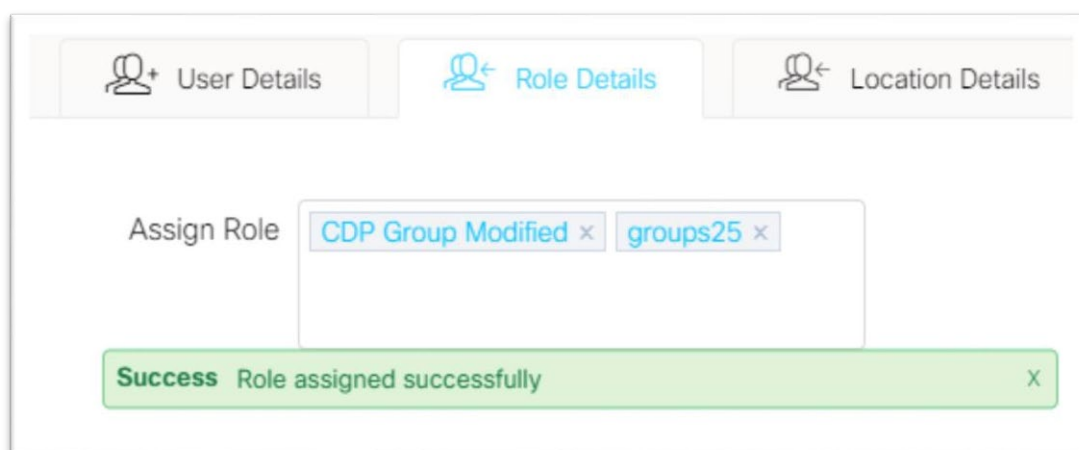


Figure 18: Role Assignment

7.3 Editing Location Details

Follow steps 1 to 3 as mentioned in Editing User Details section and then perform following steps:

1. Click the **Location Details** tab.
2. Click **Root** to expand it.

3. In order to assign a new location to the user, select the corresponding check box.
4. In order to remove an assigned location, clear the check box corresponding to the region.

5. Click .

User is redirected to User Management page with a success page as shown below:

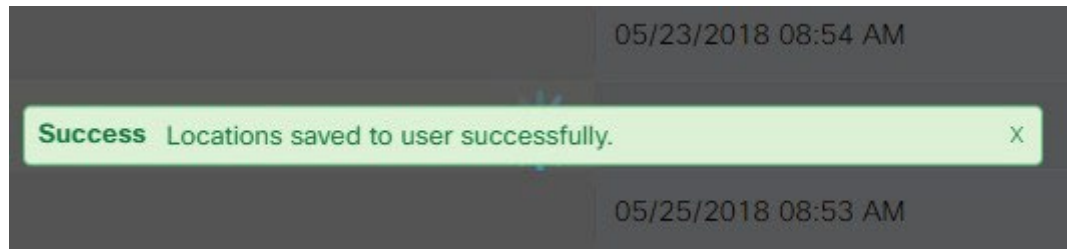



Figure 19: Locations Edit

8. Deleting User

Admin can remove a user present in the system using delete user feature.

Perform the following steps to delete a user:

1. Click the **Users** tab on top navigation menu.
2. Search or scroll for the Username which needs to be deleted.
3. Click  present against the username.
4. A confirmation message is displayed as shown below:

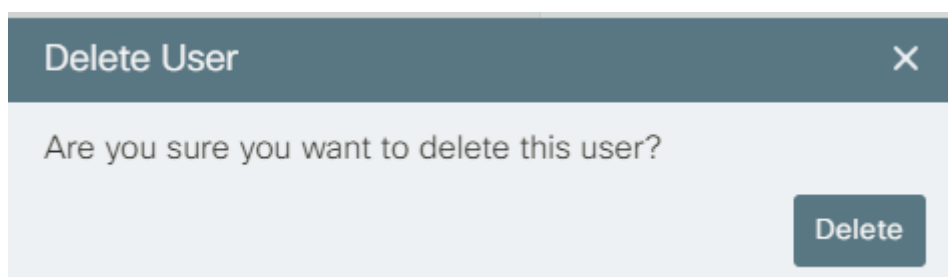


Figure 20: User Deletion Confirmation

5. Click 

A success message is seen as shown below:

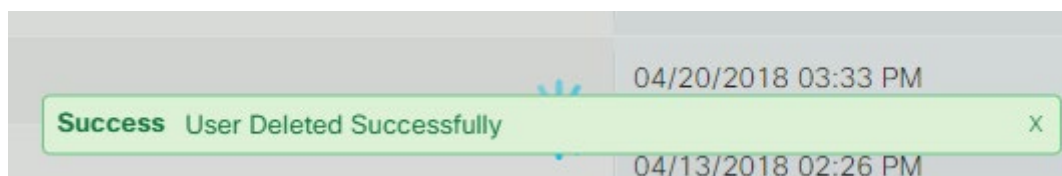


Figure 21: User Deletion Message

IMPORTANT!

- As an admin, it is important to be careful while deleting user accounts, as inadvertently, you may end up deleting a wrong user account or even an existing admin account.
- Every role should have at least one user associated with it. So, trying to delete the only user of a role is not allowed. Such an attempt leads to following error:



9. Creating Regions

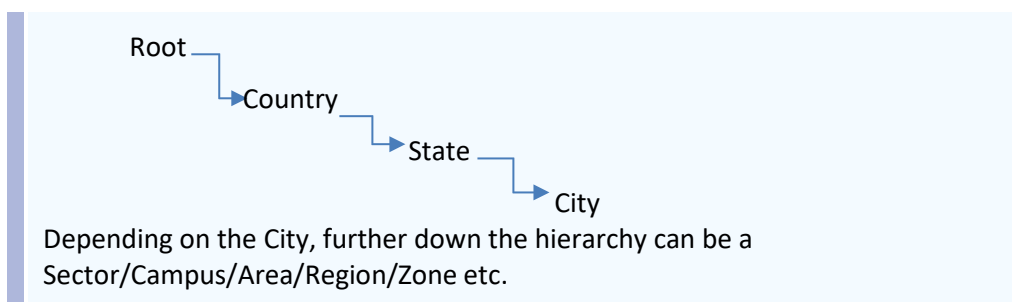
As a user in admin role, you can add, edit and delete locations that are displayed for your instance on the Dashboard. These created locations then get displayed in the “Locations” tab of the User Management module.

9.1 Hierarchy of Regions

All the locations are added under one common Root folder. The Root folder can have multiple countries under it. Each Country can have multiple States under it. Each State can have multiple Cities under it.

You can keep on adding sub regions as per your requirement. The same hierarchy appears in the “Locations” tab of the User management section. Thus any level of the hierarchical region can be assigned to the user.

The hierarchy is as follows:



9.2 Creating Region Using Latitude and Longitude Values

Perform the following steps to add a new region by providing latitude and longitude values.

1. Click on the **Regions** tab.

The regions page gets displayed with the *Root* folder on left hand side panel.

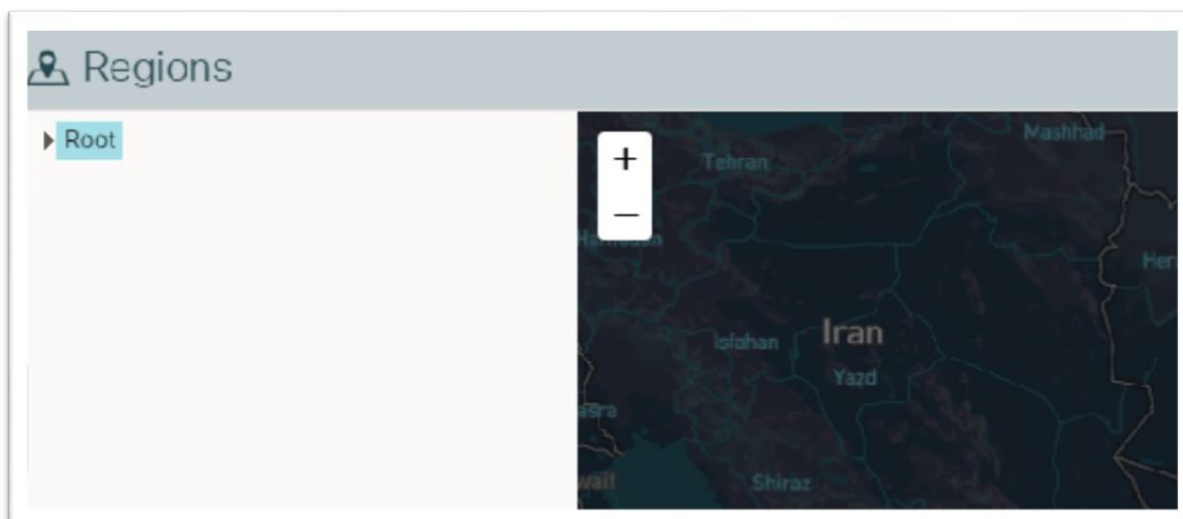


Figure 22: Regions Page

2. To create a region, click on its parent folder.

Notes

- To create a Country, Click on “Root” folder,
- To create a State, Click on its “Country” folder ,
- To create a City, Click on its “State” folder and so on.

3. Click on **Create region by latlngs** button  present on top right corner of the Regions page.

Region latitudes and longitudes window is displayed.



A screenshot of a web application window titled "Region latitudes and longitudes" with a close button (X) in the top right corner. The main area contains a text input field with placeholder text: "Enter latitudes and longitudes as[[latitude,longitude],..., [latitude,longitude]]example:[[12,23],[23,34],[44,56],[55,66]]". Below the input field is a "Preview" button.

Figure 23: Latitudes and Longitudes Window

3. Enter the values for latitudes and longitudes for regions that need to be added.

4. Click .

The entered region appears outlined on the region map view.

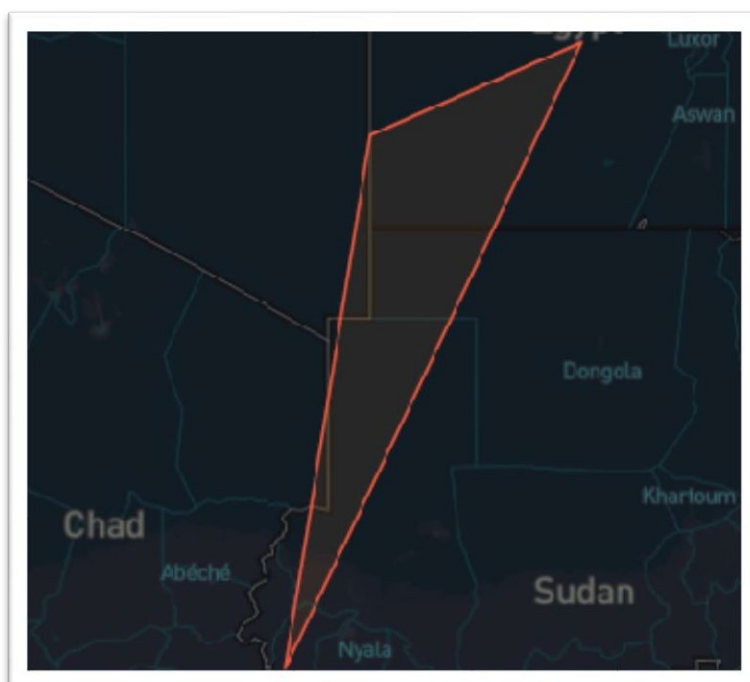


Figure 24: Outlined Region

5. Click Save button  present on top right corner.

A window opens up to enter region name.



The image shows a modal window titled "Please enter a region name" with a close button (X) in the top right corner. Inside the window, there are two text input fields. The first field is labeled "Enter region name" and the second field is labeled "Country". At the bottom right of the window is a "Save" button.

Figure 25: Region Name window

6. Enter the region name.
The second field cannot be edited. It displays the level of hierarchy of the region, for e.g.: Country, State, City etc.


7. Click .
The region gets added to the system.



Figure 26: Region Creation Message


9.3 Creating Region by Outlining

Perform the following steps to add a region by drawing outlines:

1. Click on the **Regions** tab.
2. To create a region, click on its parent folder.

Notes

- To create a Country, Click on “Root”,
- To create a State, Click on its “Country” ,
- To create a City, Click on its “State” and so on.

3. Click  located on top right corner of the page.
4. Click anywhere on the region map where the region needs to be added.
5. Click to select a Starting point for the outline to be drawn.
6. Click and extend the Outline.

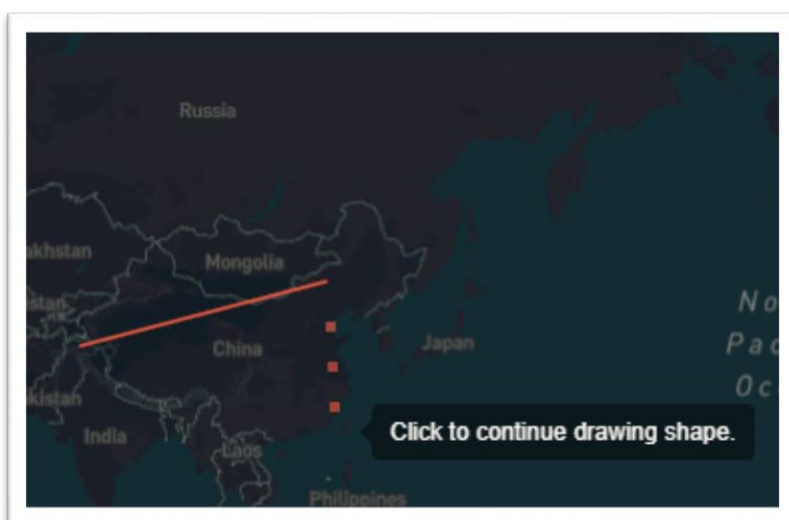


Figure 27: Outlining Region

6. Click to continue drawing a shape.
7. Click at the Start point to form a polygon.

Notes

The process can be cancelled anytime using  present on top right corner of the page.

Once a polygon is formed, a window opens up to enter region name.



Figure 28: Enter Region Name

8. Enter region name.

9. Click .

A message gets displayed when region is created.

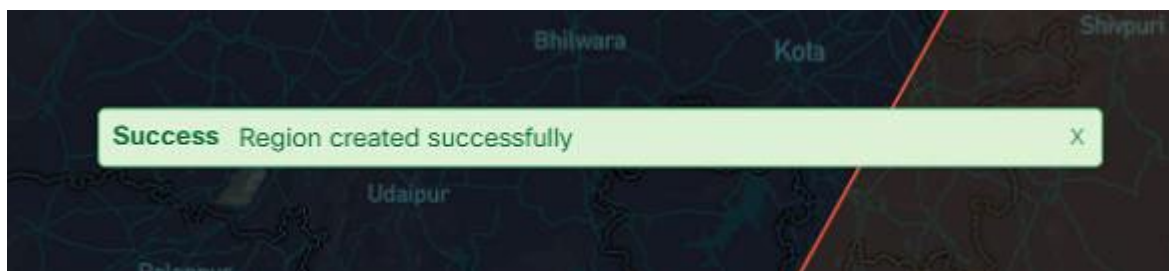


Figure 29: Region Creation Message

Notes

While creating a New Region

- A minimum of three pairs of latitude and longitude values should be provided so that a polygon is formed.

Entering less than three pairs of values shows following message:

Please enter valid latlngs


- The coordinates for child region should fall within the coordinates of parent region.

10. Editing Regions

As an admin, you can also modify the existing regions details such as latitude, longitude values and region names.

10.1 Editing Region Using Latitude, Longitude Values.

Perform following steps in order to edit the latitude and longitude values of a region.

1. On the left hand side panel, click the region folder which needs to be edited.
2. Click on the **Update region by latlngs** button  present on the top right corner of the page.

Existing values of latitude and longitude gets displayed in a window.

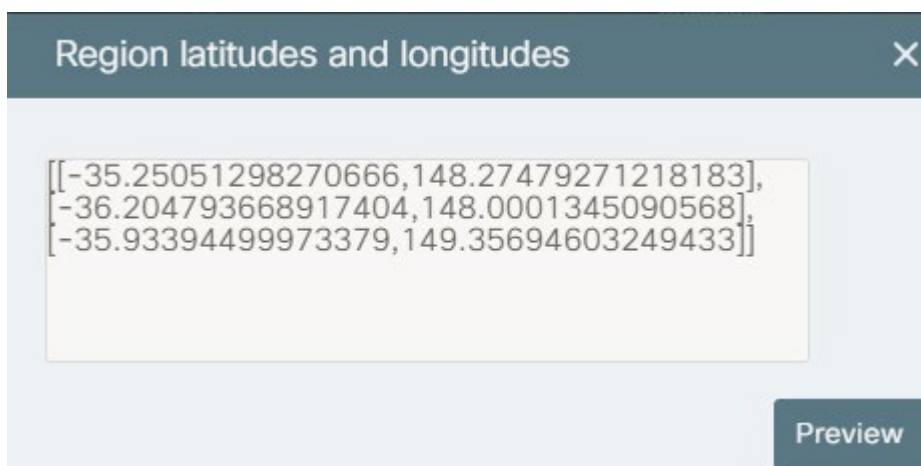



Figure 30: Editable Latitude and Longitude values

3. Edit Latitude and Longitude values as required.
4. Click .

The updated outlined region gets displayed.



Figure 31: Updated Region

4. Click .

A message is displayed as shown below:

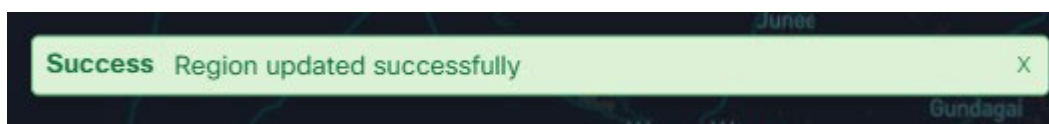




Figure 32: Region Update Message

10.2 Editing Region Using Outlines

In order to edit the name or covered areas of a region, perform the following steps:

1. On the left hand side panel, click the region folder which needs to be edited.
2. Click **Edit region**  present on top right corner of the page.
3. On the editable map view, hover over the vertices of the selected polygon.
4. Drag the vertex to required position.
5. Click .

A window appears where Region name can be edited.

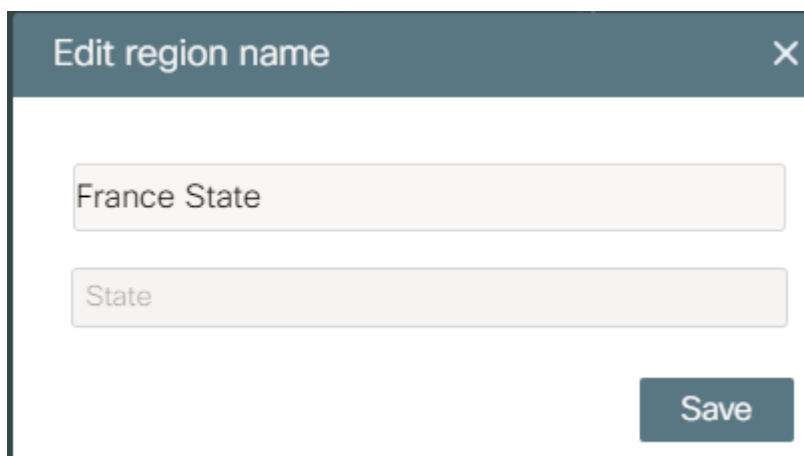
A screenshot of a web form titled "Edit region name" with a close button (X) in the top right corner. The form contains two text input fields. The first field is labeled "France State" and the second field is labeled "State". Below the input fields is a dark blue "Save" button.

Figure 33: Edit Region Name

6. Enter the updated name as required.

7. Click

A dark blue rectangular button with the word "Save" in white text.

A message is displayed as shown below:

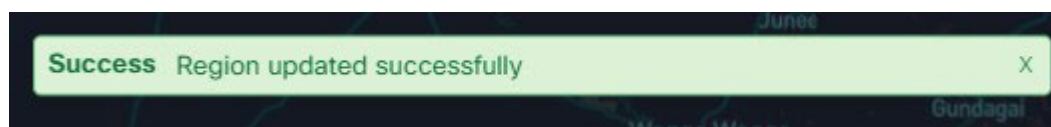


Figure 34: Region Update Message

11. Deleting Regions

The regions present in the system can also be deleted by the admin.

In order to delete a region, perform the following steps.

1. On the left hand side panel, click the region folder which needs to be deleted.

The right hand side panel displays the selected region on the map view.

2. Click  present on top right corner of the page.

Confirmation Dialog box appears as shown below:

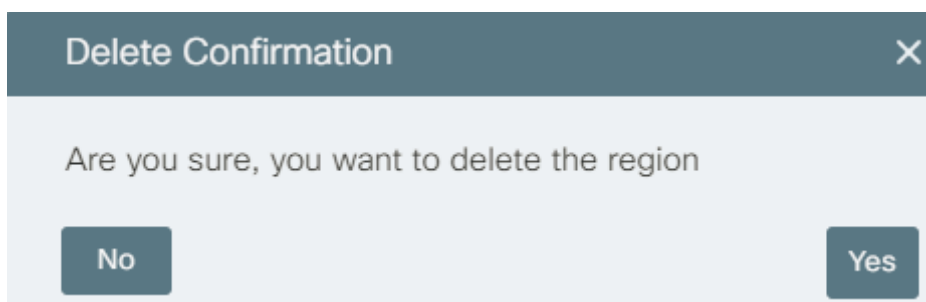


Figure 35: Delete Confirmation Window

3. Click .

The region gets deleted and a success message is displayed.

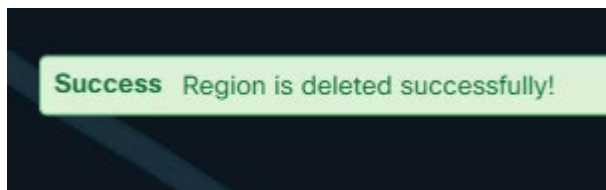
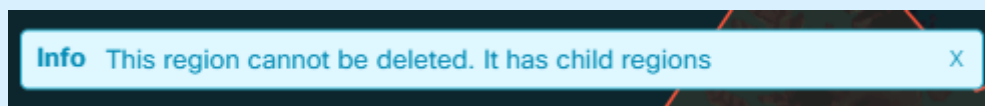


Figure 36: Region Deletion Message

IMPORTANT!

- If the region to be deleted has any child regions under it, then first delete the child regions, otherwise the system does not allow deletion and displays message as shown below:



- As an admin, it is important to be careful while deleting regions, as inadvertently, you may end up deleting locations assigned to active users.