Release/Hydrogen/Base/User Guide/Config

From Daylight Project

This page contains installation and configuration for the base edition. Click here to return to the main Base Edition User Guide page.

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Installation

The installation instructions for the Base Edition can be found here (https://wiki.opendaylight.org/view/Release/Hydrogen/Base/Installation_Guide) .

A list of troubleshooting steps for installation can be found here (https://wiki.opendaylight.org/view/OpenDaylight_Controller:Installation) under the **Troubleshooting** section.

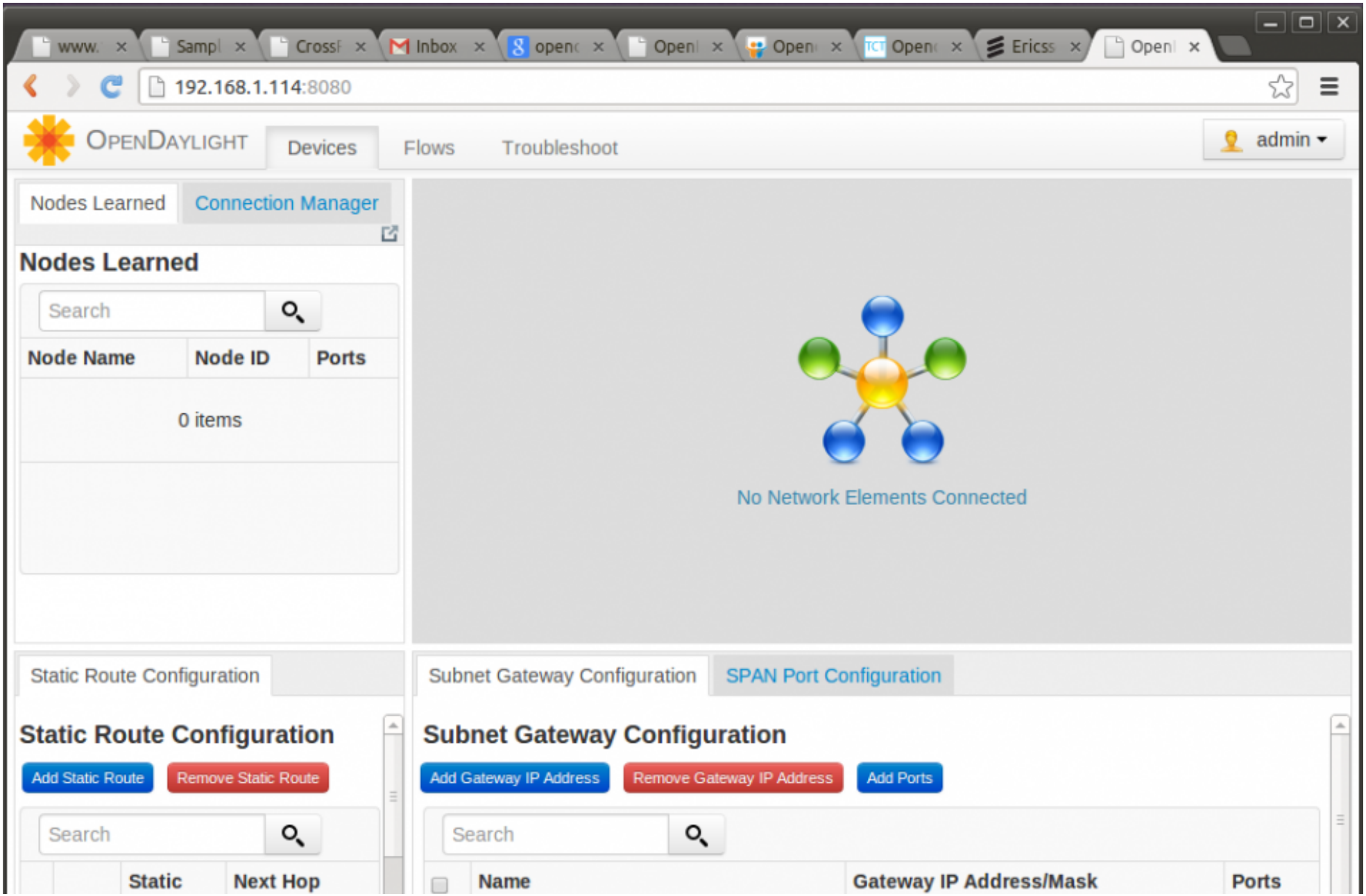
Configuration

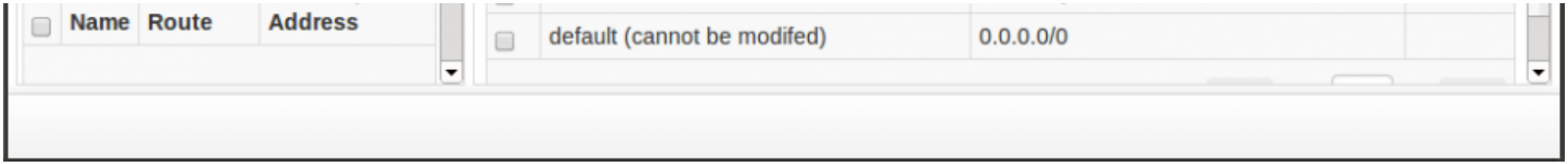
To configure OpenDaylight Base edition using the OpenFlow 1.3 plugin, start Opendaylight Controller with the *-of13* option. If you do not use the option, the controller will use the OpenFlow 1.0 version.

- To start mininet for the OpenFlow 1.3 simulation, use the following command: *$ sudo mn --controller=remote,ip=a.b.c.d --topo tree,2 --switch ovsk,protocols=OpenFlow13*
- To start mininet for the OpenFlow 1.0 simulation, use the following command: *$ sudo mn --controller=remote,ip=10.125.136.52 --topo tree,2*

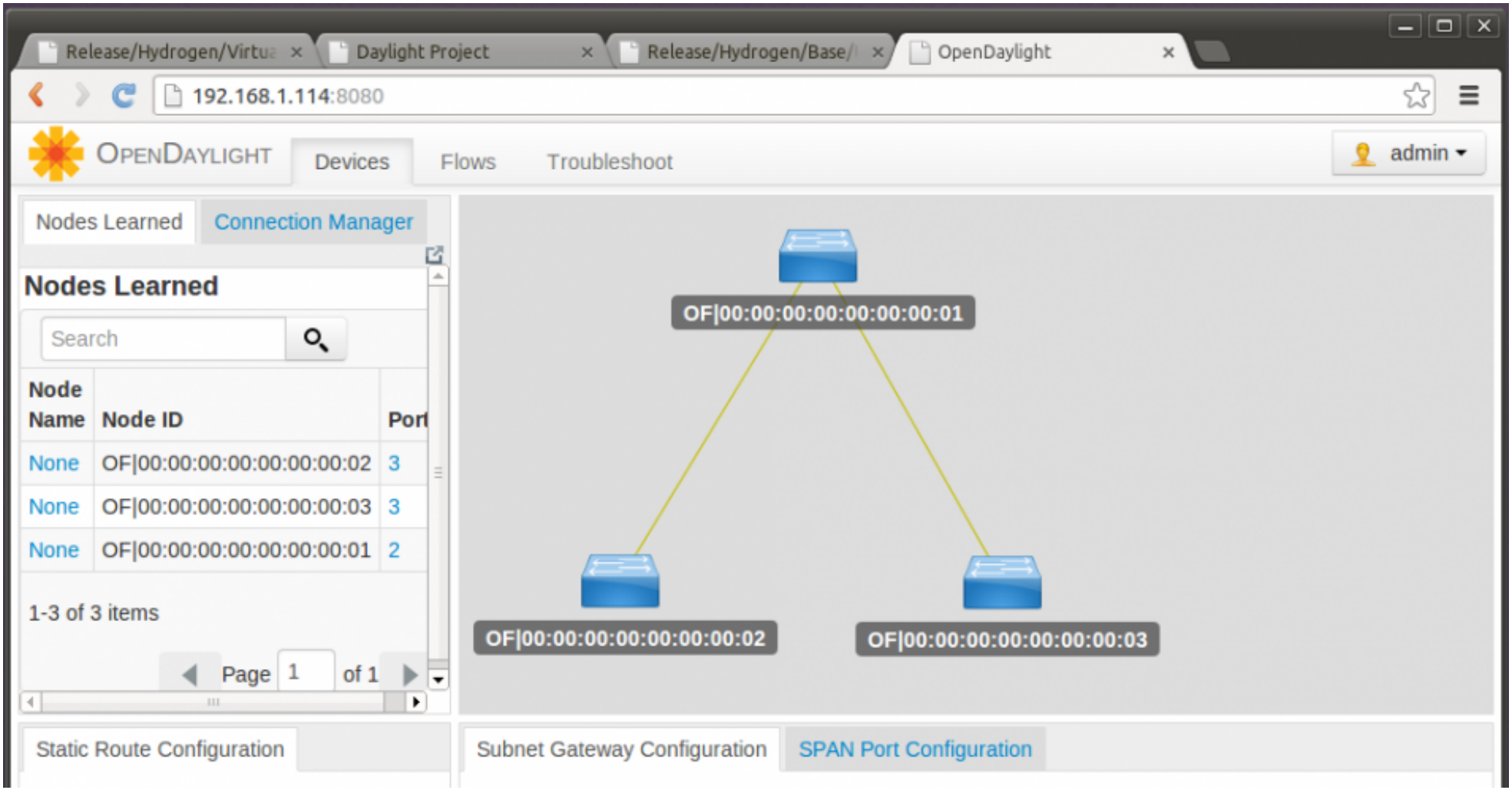
Setup Using the Graphical Interface

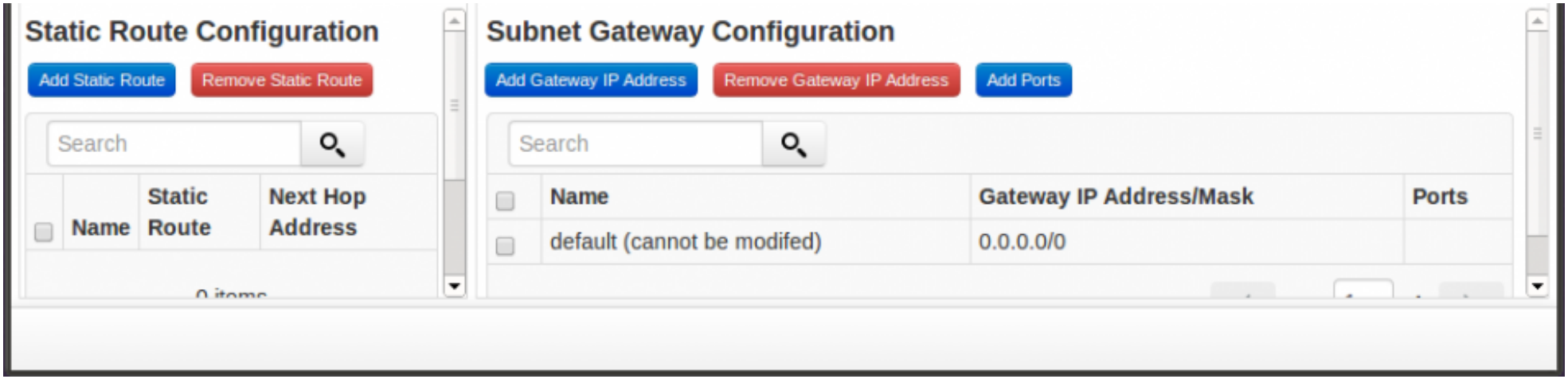
Log in using your credentials. The default credentials are user=admin/password=admin. The first page appears.



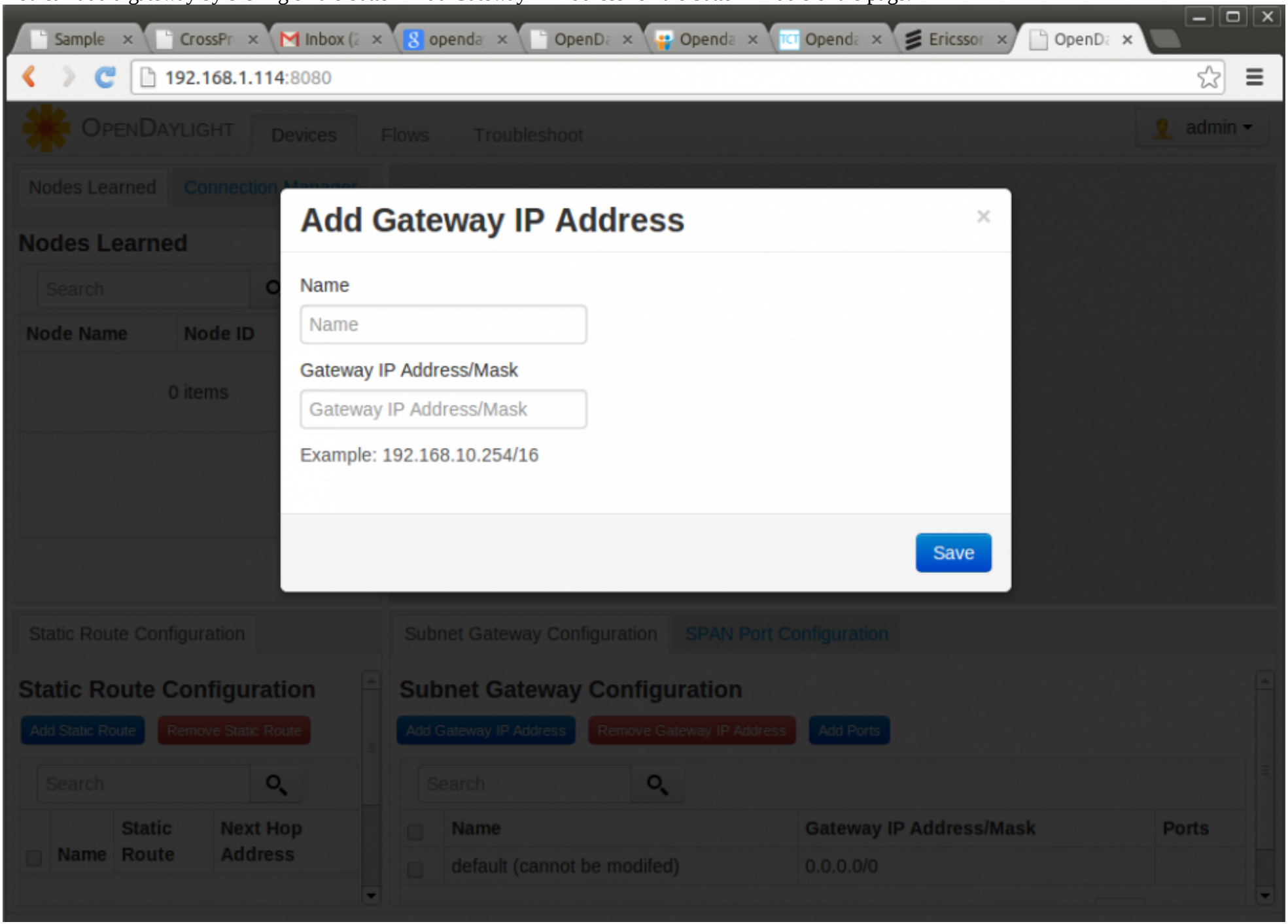


Under the Devices tab, all of the created nodes are listed with their Node ID and Ports. For example, if you set up Mininet to emulate a network topology by running *sudo mn --controller=remote,ip=a.b.c.d --topo tree,2*, you create a network of tree structure with 3 switches. Those switches will be shown under the Devices menu as well as on the graphical interface, as shown below:

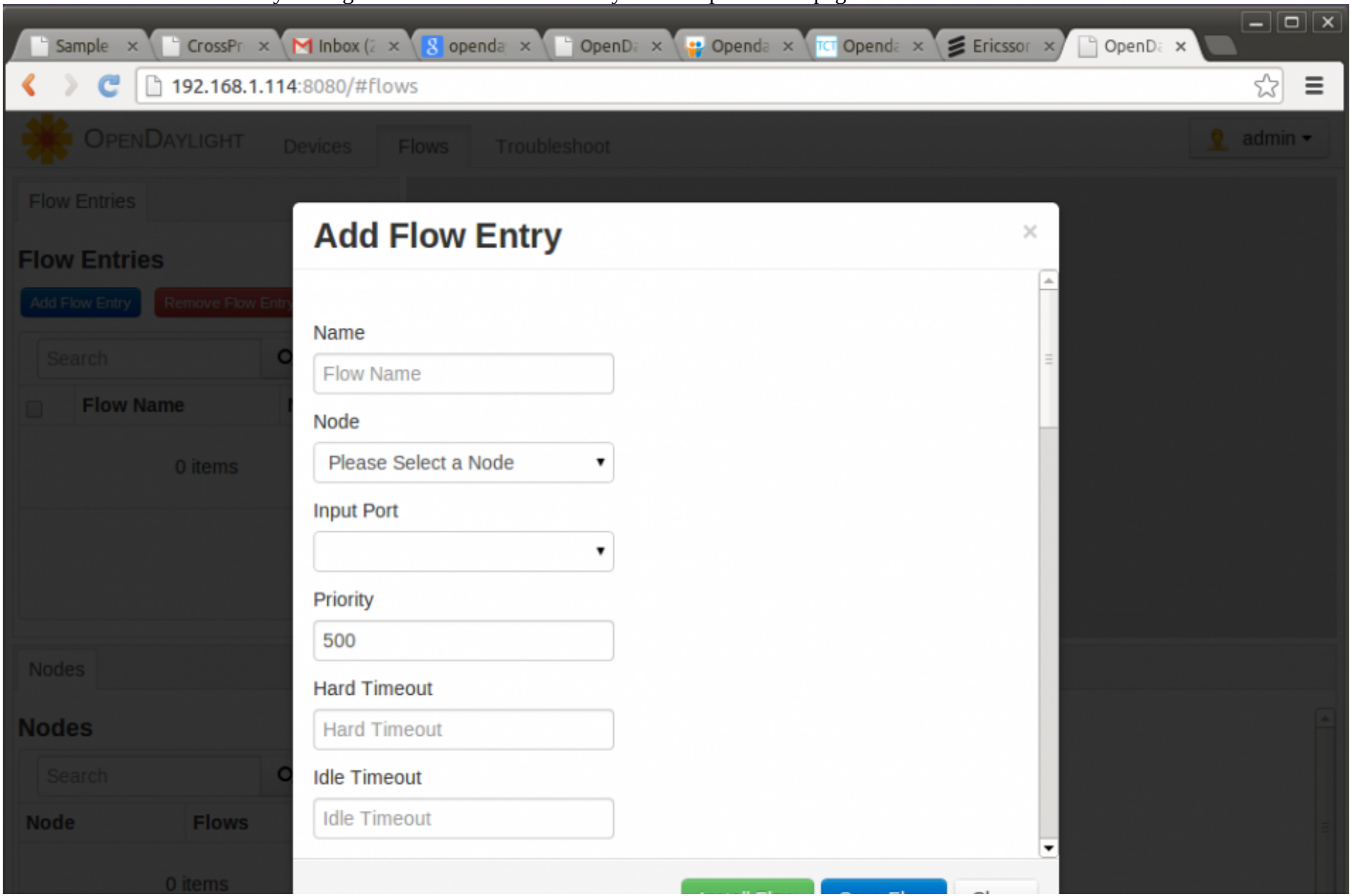


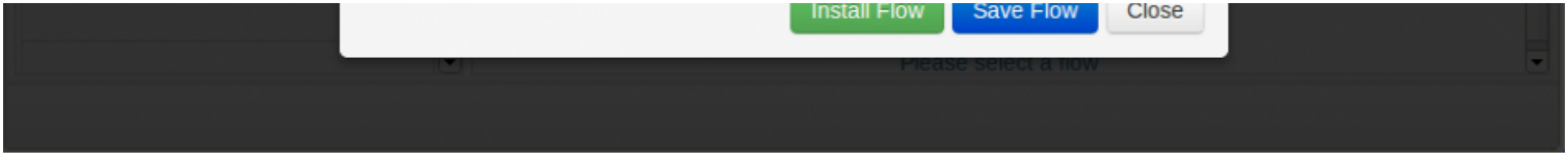

Static Route Configuration
Add Static Route
Remove Static Route
Search
Name
Static Route
Next Hop Address
0 items
Subnet Gateway Configuration
Add Gateway IP Address
Remove Gateway IP Address
Add Ports
Search
Name
Gateway IP Address/Mask
Ports
default (cannot be modifed)
0.0.0.0/0

You can add a gateway by clicking on the button "Add Gateway IP Address" on the buttom-middle of the page:



You can also add flow entries by clicking on the button "Add Flow Entry" on the top-left of the page:

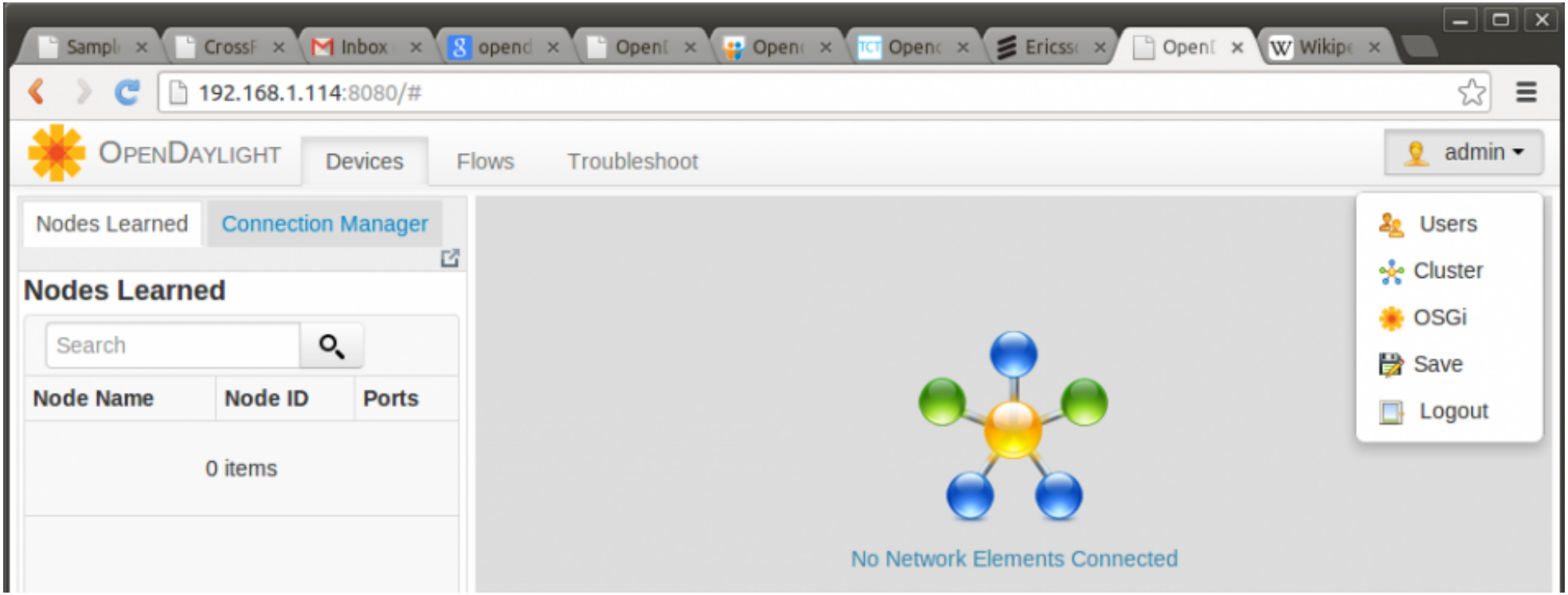


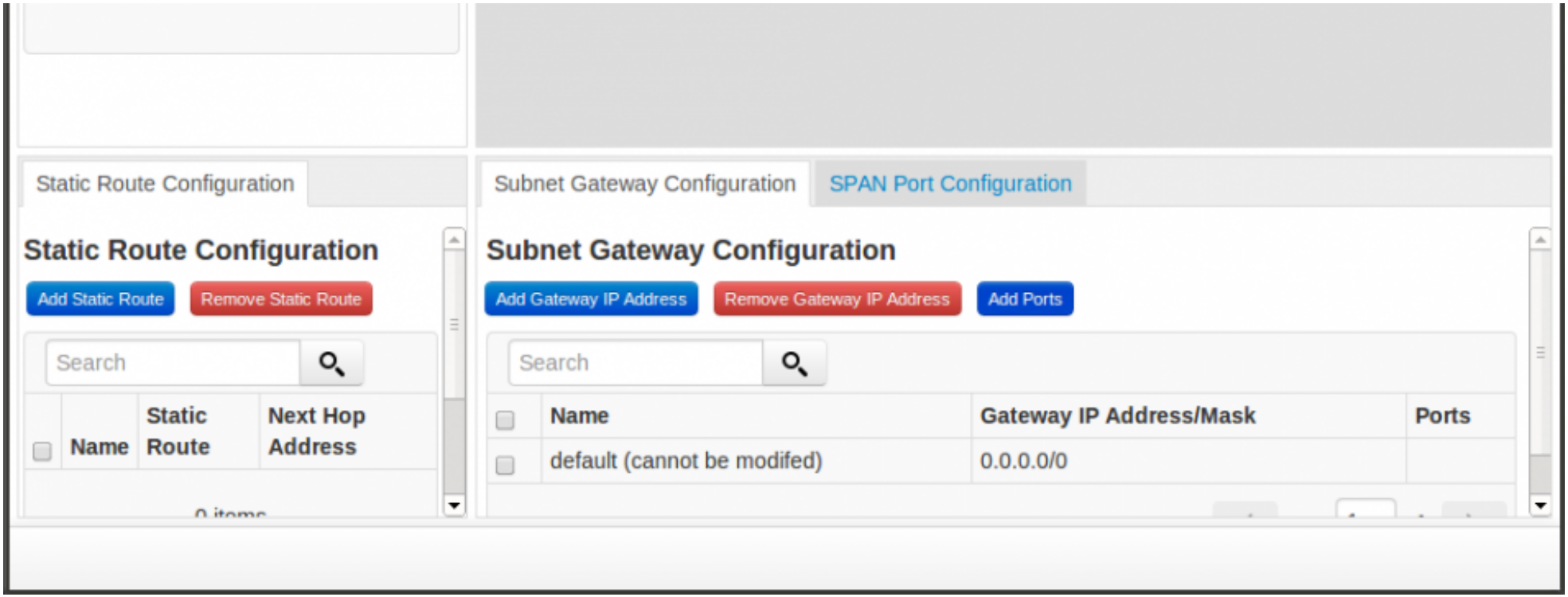


The minimum requirements to install a flow in a node are to identify the node (switch) and action for the flow entry. You can find other parameters for the flow at here (http://openvswitch.org/cgi-bin/ovsman.cgi?page=utilities%2Fovs-ofctl.8) under the Flow Syntax.

You can access the Admin menu from top-right of the page by clicking on the **admin** selection. The available options are:

- **Users** to manage the users and their role
- **Cluster** for the cluster manager for high availability
- **OSGi** to access the OSGi management console
- **Save** to save the current setup
- **Logout** to exit from the GUI





Command Line Interface

The complete descriptions of OpenDaylight command line interfaces can be found here (https://wiki.opendaylight.org/view/OpenDaylight_Command-Line_Interface_(CLI):Main#Switch_Commands) .

Console Interface

This information will be available soon.

Programmatic Interfaces

For programmatic interfaces, the starting point for developers is here (https://wiki.opendaylight.org/view/GettingStarted:Developer_Main) . This page provides information about pulling, hacking, and pushing the code from CLI. The OpenDaylight Controller allows developers to observe and manage the controller via web applications. A programmer guide can be found here (https://wiki.opendaylight.org/view/OpenDaylight_Controller:Programmer_Guide) .

- This page was last modified on 20 February 2014, at 02:20.