ZT-20X6NB Signal Routing Assembly
20 x 6 Non-Blocking Full Access Matrix
600-6000 MHz

A Mini-Circuits Self-Contained Integrated Assembly

Creating a Resource Model in CloudShell

Mini-Circuits

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Mini-Circuits

13 Neptune Avenue
Brooklyn, NY 11235
Phone: 1-718-934-4500
Email: sales@minicircuits.com
Web: www.minicircuits.com

1 INTRODUCTION

This guide explains the procedure for creating a resource model in Cloudshell.

2 CREATING A RESOURCE MODEL IN CLOUDSHELL

1. Start the CloudShell Resource Management Client program

Figure 1: CloudShell Resource Management Client program

2. Login to the resource manager with your CloudShell portal credentials:

Figure 2: Resource Manager login screen

3. After the main window opens, click on the "Admin" tab in the menu bar

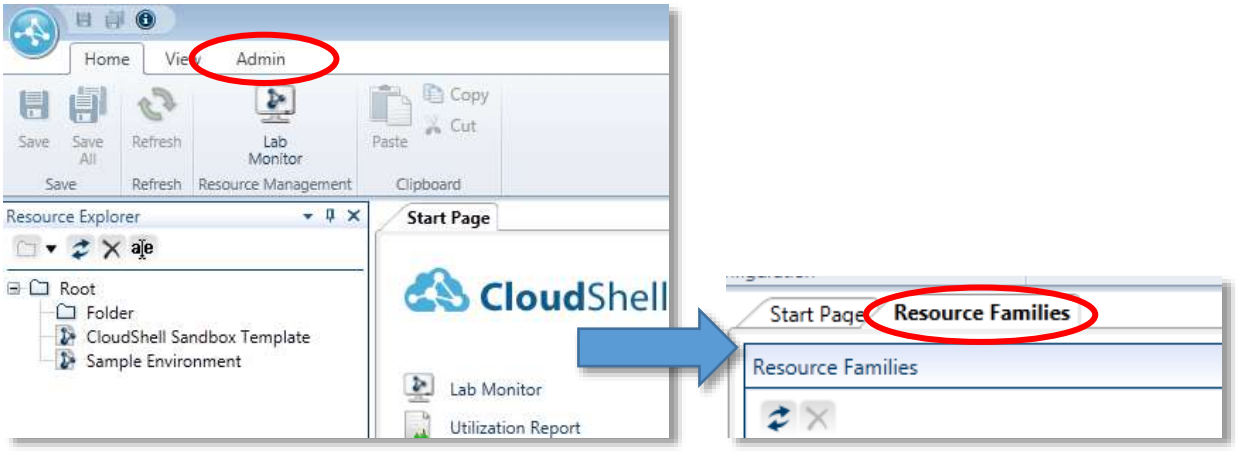

Figure 3: Admin Menu → Resource Families

4. Create a new resource family. (This is optional; you can create a new model under an existing resource family if you wish).

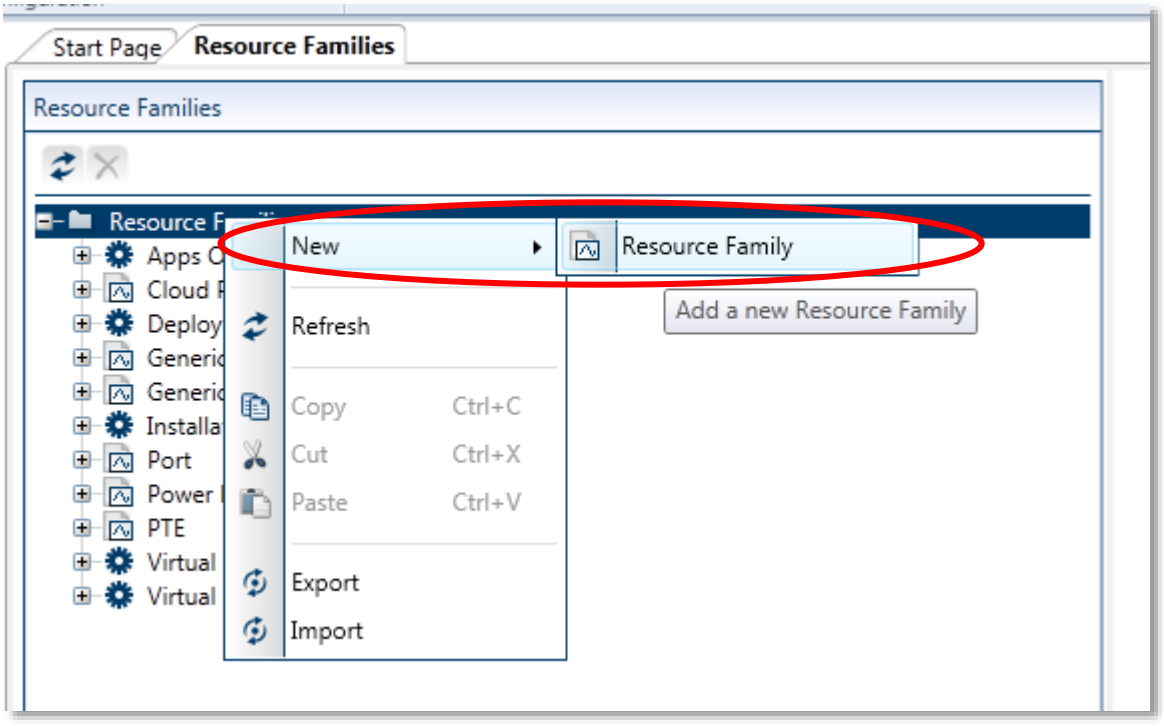

Figure 4: Create a new resource family.

5. Enter Name and Description. Make sure “Locked by Default” is selected as shown below. Click “OK.”

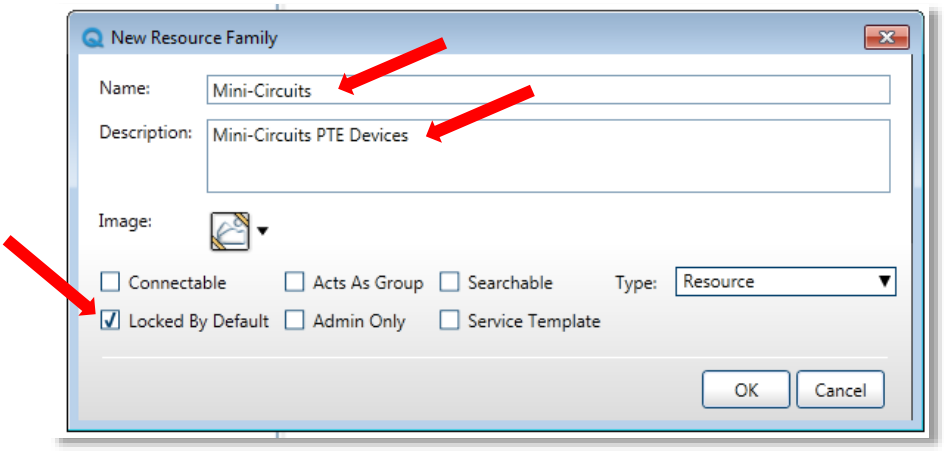

Figure 5: Enter Name and Description

6. Add a new resource model to the family you just created.

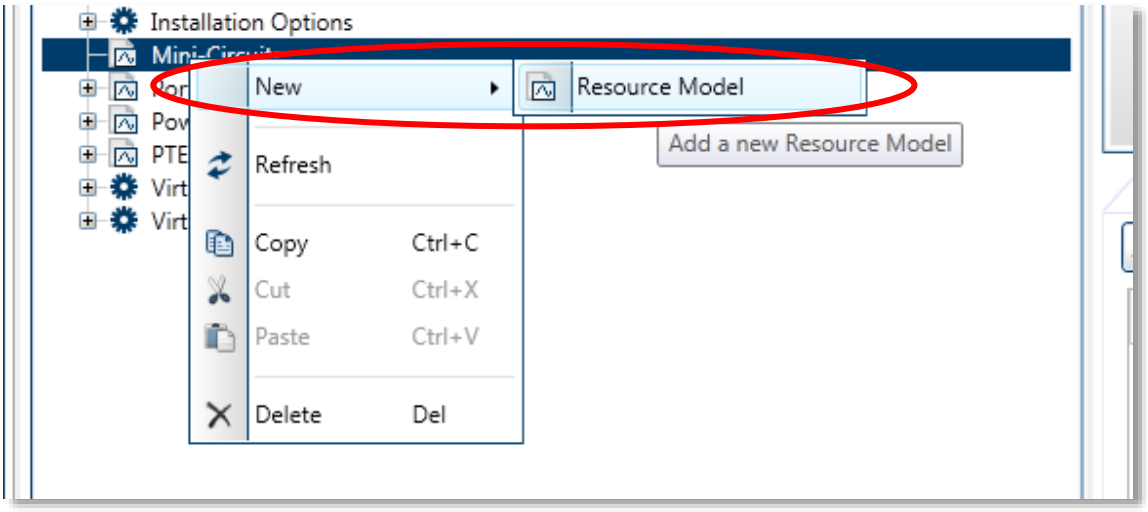

Figure 6: Create a new resource model.

7. Enter the name and description of your resource model. Adding an image is optional, but we've added one here for demonstration. This will show up in the sandbox later. Click "OK."

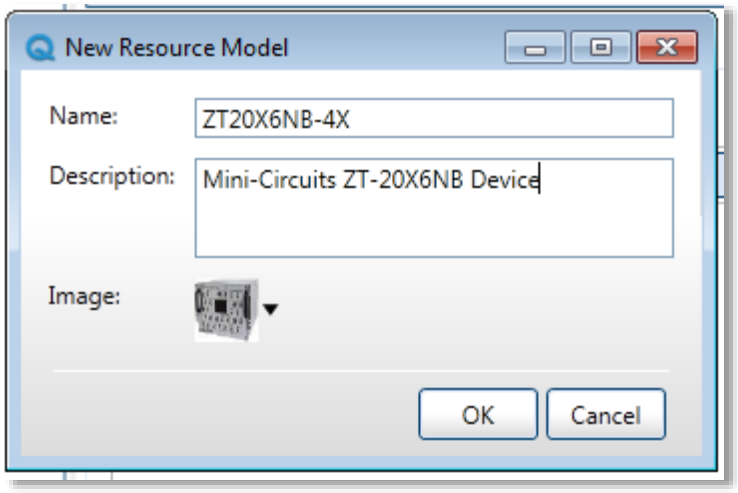

Figure 7: Name, Description and Image

8. After the model is created, we need to add 4 attributes required by the driver. Click on the "attributes" button on the main panel. This will open the window shown below:

Figure 8: "Attributes" window

9. Click on the “Add” button and enter the information shown below:

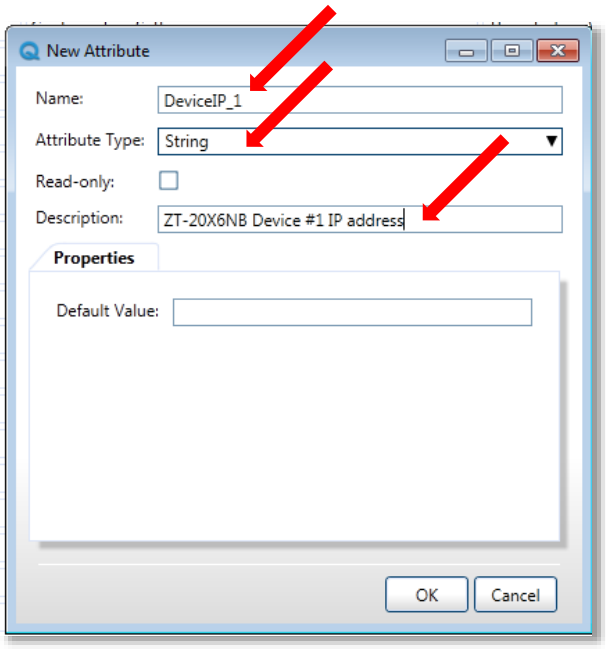

Figure 9: Enter info for new attribute.

10. Make sure you create 4 attributes as show in steps 8 & 9 with the following names:
    a. DeviceIP_1
    b. DeviceIP_2
    c. DeviceIP_3
    d. DeviceIP_4

    These attributes are used by the ZT-20X6NB driver to obtain the IP addresses of the devices. (The name must match the above. If it doesn’t, an error will be thrown stating “attribute not found” when running driver commands.

11. After the attribute is created, select the attribute and click on the “rules” button. Make sure the “setting” checkbox is set. If you need to make additional adjustments, you may do so.

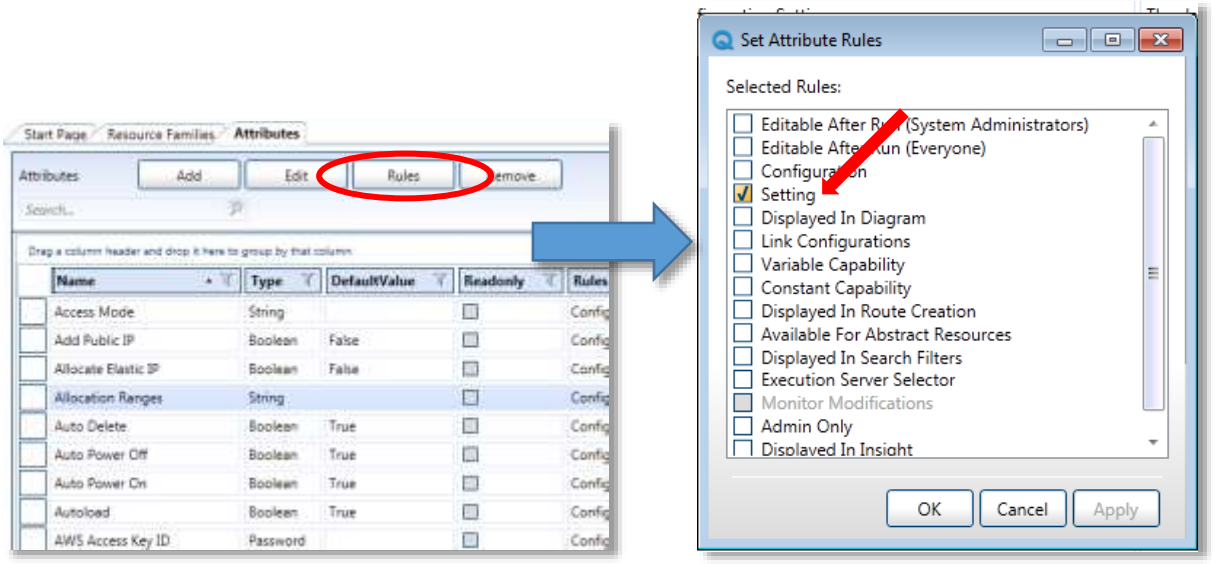

Figure 10: Set attribute rules

12. When all attributes have been created, you should see them under the attributes panel:

Figure 11: New attributes in Attributes panel.

13. Add the created attributes to the model. Click on “resource families” and select the ZT20X6NB-4X model. On the right-hand side, under the “attributes” tab click “add/remove from the bank.”

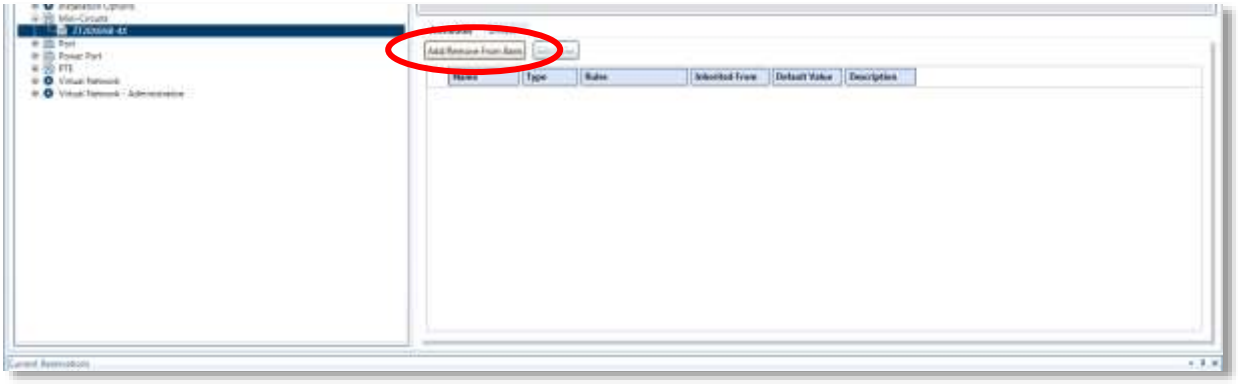

Figure 12: Add new attributes to the ZT20X6NB-4X model.

14. In the “Resource Model” attribute dialog, find and assign the DeviceIP_X attributes. Click “OK” when done.

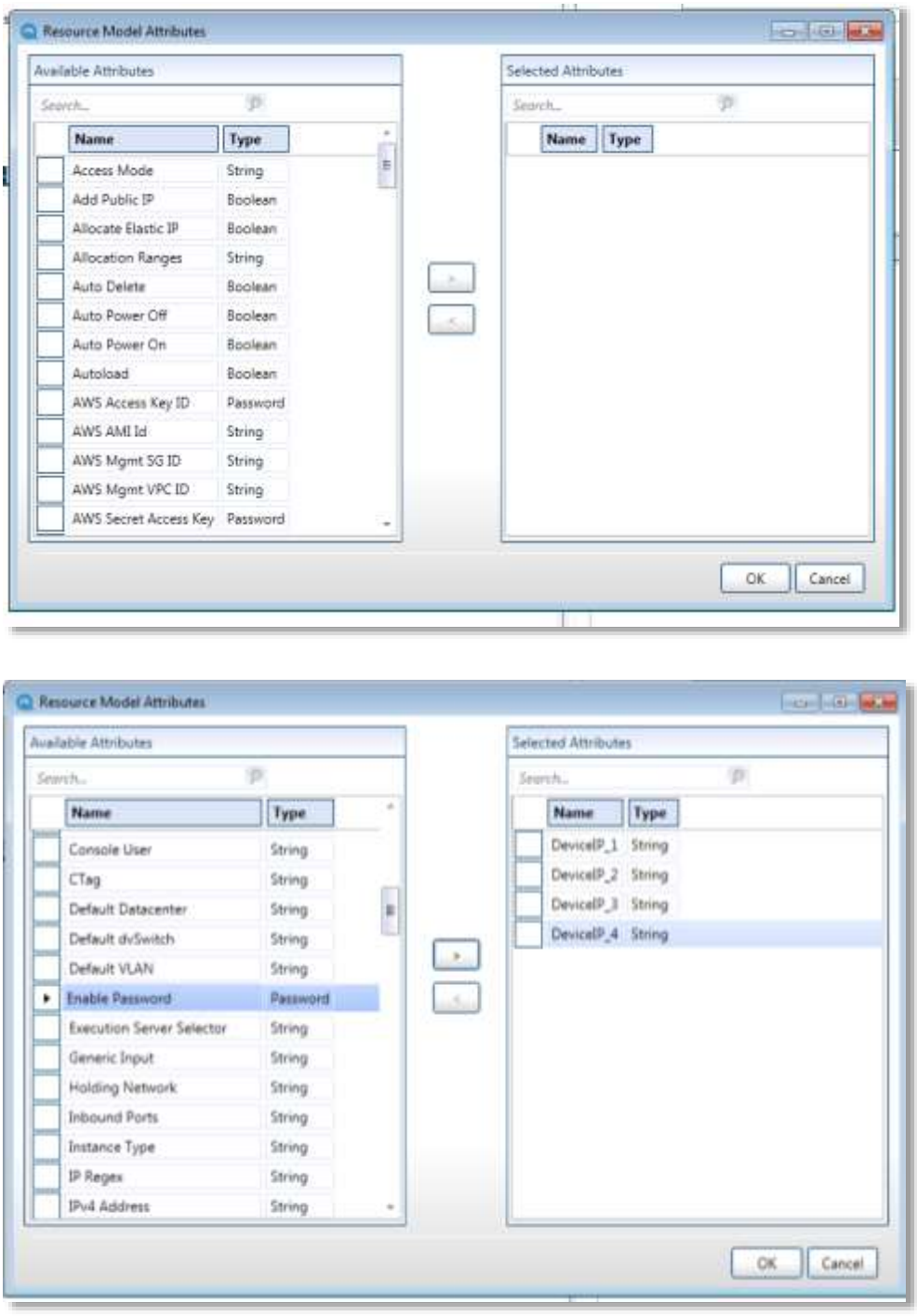

Figure 13: Assign resource model attributes

15. After the attributes are added, we can now create a new model to be used in CloudShell. On the Resource explorer, right-click on the root and create a new resource:

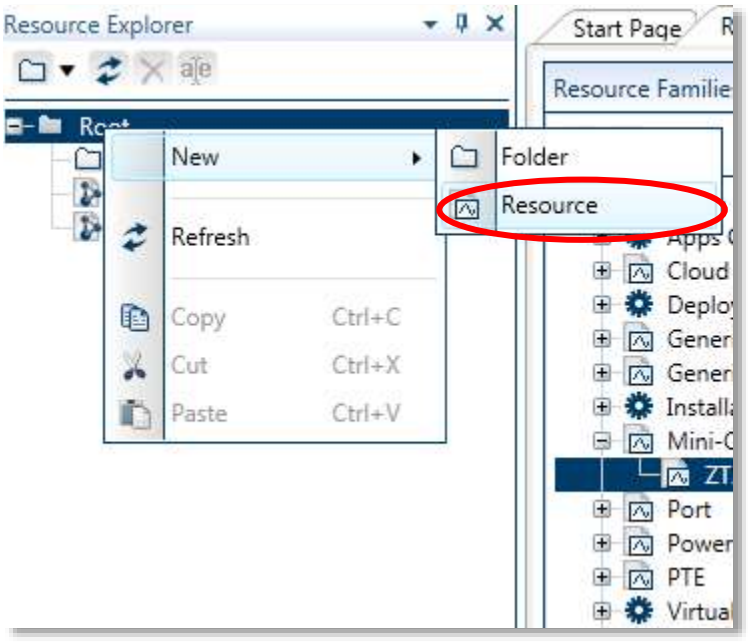

Figure 14: Create a new resource

16. Enter the name and address of this resource.
    a. In the family tab, select the resource family you created
    b. Select the model you created from the list
    c. Leave the driver blank
    d. Click “OK”

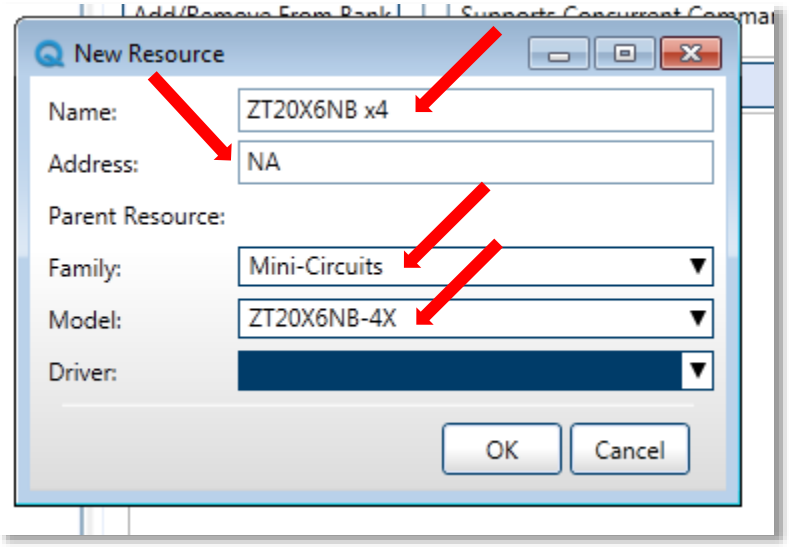

Figure 15: Enter the name and address of the resource.

17. After the model is created, make sure to save the changes by clicking on the “Save All” icon. Also refresh the models by clicking on the “Refresh” button in the Resource Explorer.

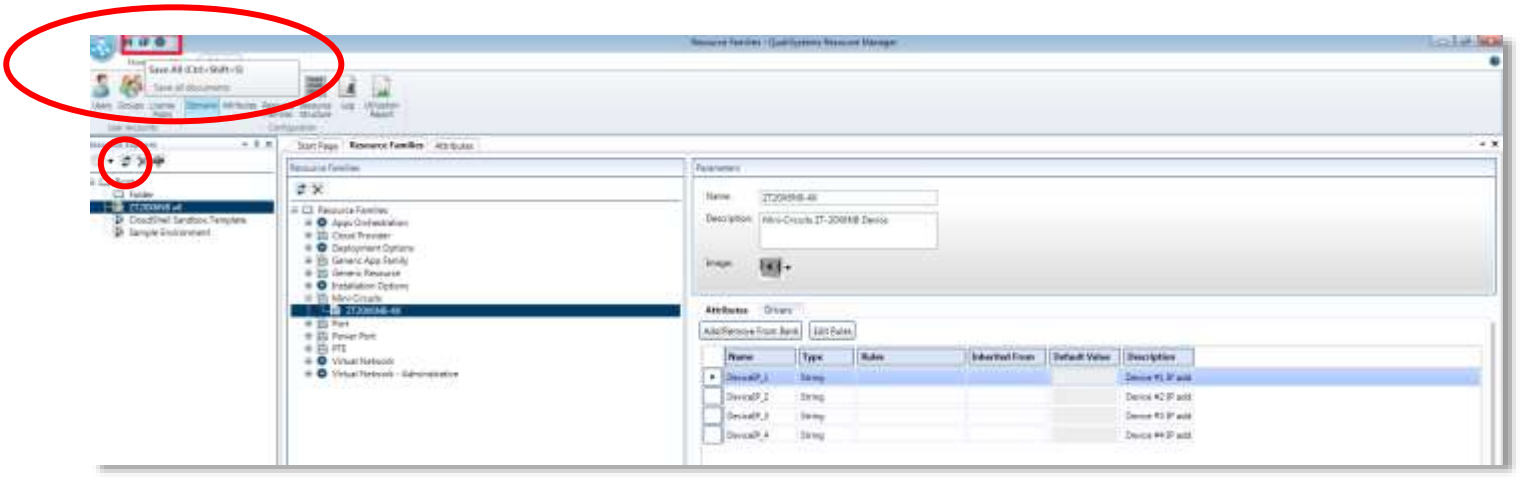

Figure 16: Save changes and refresh models

18. The model can now be used in the CloudShell sandbox. Now import the driver and assign it to the model you just created. Login to the CloudShell portal as administrator.

19. Click on “Manage” > “Drivers” > “Resource.” Then click on “+Add New Driver.”

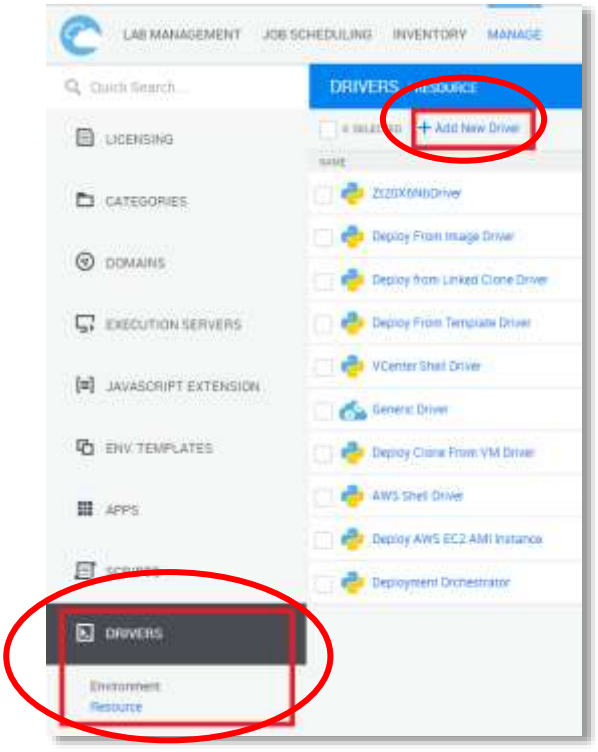

Figure 17: Add new driver

20. Navigate to the driver folder, select the driver dll and click “Open.”

Figure 18: Open driver dll

21. The driver will be imported as shown below. Click on the “Edit” button.

Figure 19: Edit imported driver

22. The Resource Driver panel will open. Click on the “Edit Model” pencil icon.

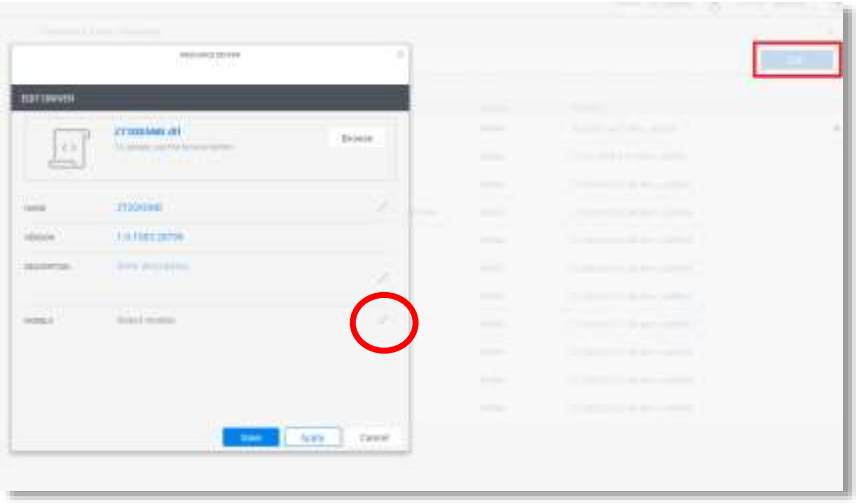

Figure 20: Edit model in Resource Driver panel.

23. From the list, select the resource model you created earlier as shown below. It's listed under the resource family: Mini-Circuits. Click "Apply," then click "Save."

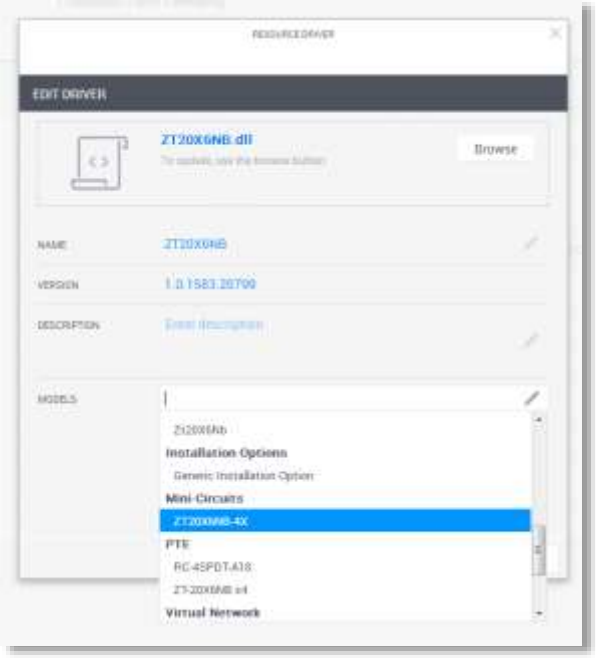

Figure 21: Select ZT20X6NB-4X model, apply and save.

24. Now that your resource model has the driver it needs to be activated as shown below:
    a. Right-click on the 3 dots
    b. Select "Set as active."

Figure 22: Set as active

25. Confirm the activation process by clicking "ok."

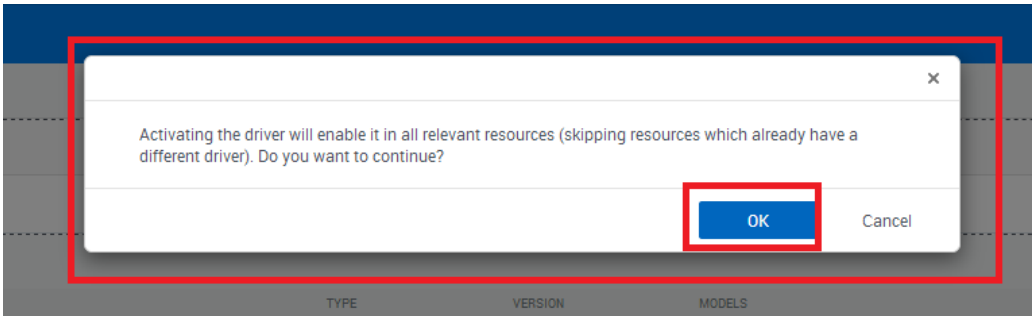

Figure 23: Confirm activation

26. A confirmation message will pop up:

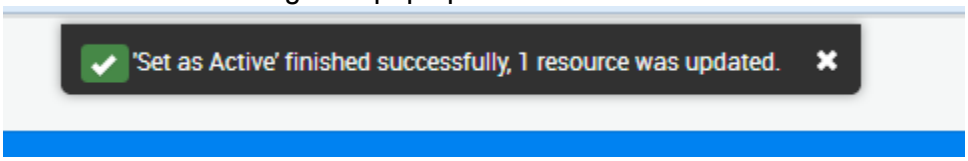

Figure 24: Confirmation

27. Go to the inventory tab. Your resource will be listed as shown below. Reserve the resource.

Figure 25: Reserve resource in the inventory tab.

28. The reserved resource with the available commands from the driver is shown. Click on the attributes tab.

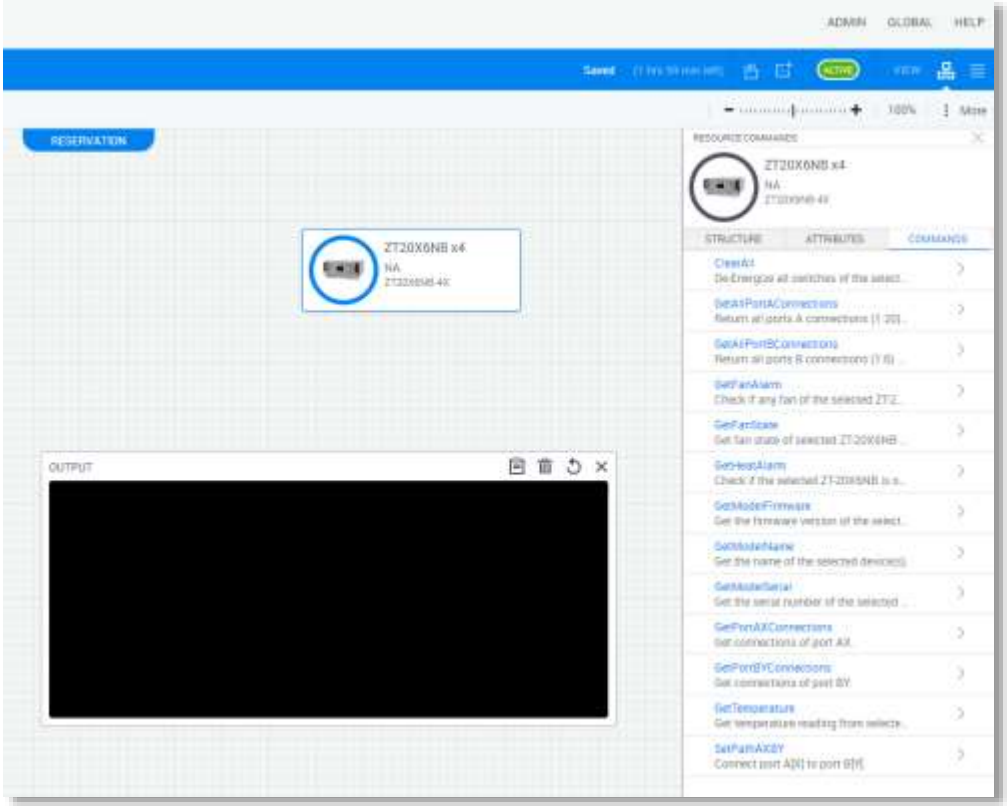

Figure 26: Reserved resource shown.

29. In the attributes tab, update the device IP addresses.

Figure 27: Update device IP addresses

30. You're done. Commands from the commands tab can now be called.

3 ADDITIONAL SUPPORT

We're here to support you every step of the way. For technical support and assistance, please find the following points of contact for your convenience:

Chi Man Shum
Phone: +1 201 647-1615
Email: chiman@minicircuits.com
chimanshum@gmail.com

Lee Whiting
+44 1252 832 620
Email: Lee@uk.minicircuits.com