# Control Variable Choices
# Catalog Client Script

## Lab 4.1                    15-20 minutes

## Lab objectives

You will perform the following in this lab:

- Review the process on how to create a new Catalog Item for users to request new toner cartridges. Users can order individual cartridges, as well as a multipack option with different colors.
- Write a script that filters the options according to the role of the logged-in user.
    - All users may only order black printer cartridges.
    - Users with the *ITIL Admin* role may order all printer cartridges (black and color).

> **Note:** *Given that this is a Scripting course, most of the Catalog Item steps have already been performed for you. All you may need to do for this Lab is perform a few steps here and there. Good news, for sure.*

## A.    Preparation

1.  No preparation is needed since the Catalog Item has already been created for you.☺

## B.    Verify the Catalog Item

1.  Navigate to **Service Catalog > Catalog Definitions > Maintain Items**.

2.  Verify that the following Catalog Item is in the system. If it is, simply walk through the following steps until you get to Section C, step 8. If not, create the Catalog Item starting with the information below.

> **Note:** *The last three variables, used in Lab 4.2, may be displayed. You can ignore them for now.*

Name: **Brother Network-Ready Printer Toner**
Catalogs: **Service Catalog**
Category: **Printers**
Short Description: **Brother TN 2000 Series Toner**
Description: **Yields approximately 1200 pages**
Flow (on **Process Engine** Tab): **Service Catalog Item Request**
Picture (on **Picture** Tab): **Toner.png** (included in your instance)

3. **Save** the record to remain on the form.



> **Note:** *You may want to make the Item a favorite for easier access during the Module Labs.*

## C. Create a Variable to Contain the Available Cartridge Types

1. Select **New** on the *Variables* Related List.

   Type: **Select Box**
   Order: **100**

   On the **Question** Tab
   Question: **Which pack type would you like to order?**
   Name: **pack_type**

   On the **Type Specification** Tab
   Include none: **Selected (checked)**

2. **Save** the record to remain on the form.

TIP FROM THE FIELD:
*The **Question** is a label for the variable. In a Catalog Client Script, the **Name** is used to reference the variable. Since the **Question** will not be in the script, the **Name** should be a good description of the variable and unique.*

3. Select **New** on the *Question Choices* Related List.

   Price: **60.00**
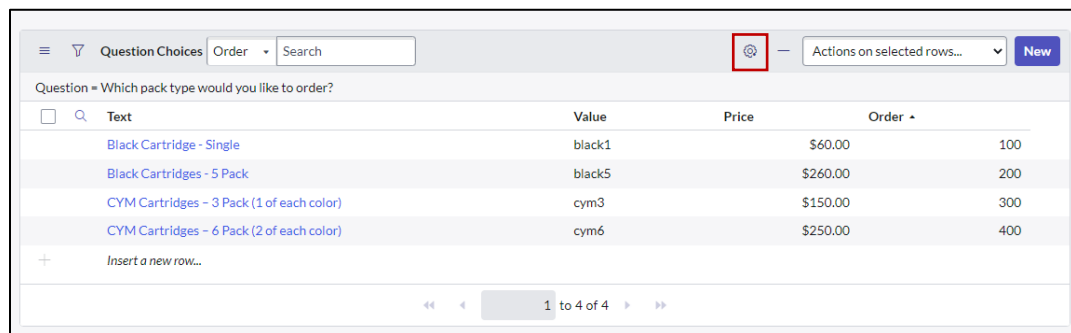   Order: **100**
   Text: **Black Cartridge – Single**
   Value: **black1**

4. Select **Submit**.

5. Repeat steps 3 and 4 to add these additional Question Choices.

| Price | Order | Text | Value |
|---|---|---|---|
| 260.00 | 200 | Black Cartridges – 5 Pack | black5 |
| 150.00 | 300 | CYM Cartridges – 3 Pack (1 of each color) | cym3 |
| 250.00 | 400 | CYM Cartridges – 6 Pack (2 of each color) | cym6 |

6. Compare your **Which pack type would you like to order?** Variable record with the image below and make any adjustments if necessary.
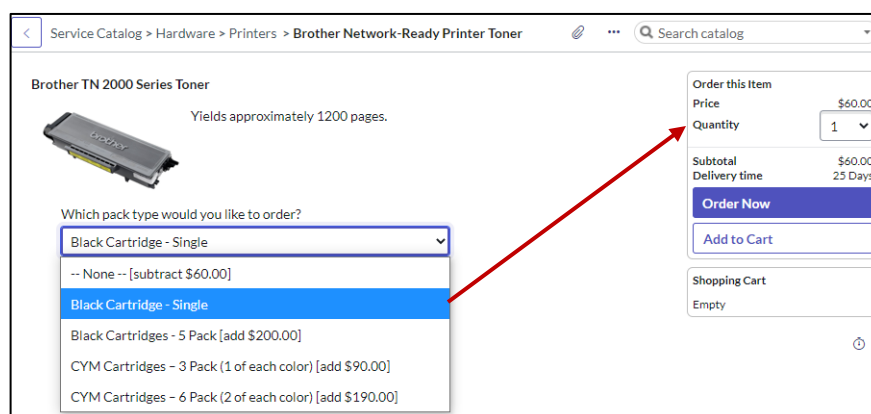


> *Consider configuring the Question Choices List Layout to include the **Price** and **Order** columns. Select the Personalize List icon ⚙ and move the **Price** and **Order** columns from the **Available** to the **Selected** List. Then **Save** the changes.*

7. Select **Update.**

8. Select **Try It** on the *Brother Network-Ready Printer Toner* Catalog Item's Header bar.

9. Verify the price information in the shopping cart changes as expected.

## D. Create a Catalog Client Script to Control the Display of Choices Based on Role

Now that the Catalog Item is in place, you can create the script to remove the choices as described in the Lab goal.

1. On the **Brother Network-Ready Printer Toner** Catalog Item form, scroll down to the *Catalog Client Scripts* Related List and select **Toner Choices by Role**.

2. Verify the record.

   Active: **Selected (checked)**
   Type: **onLoad**

   > **Note:** *Notice the **Applies on a Catalog Item view** field is pre-populated. This is because you navigated to this form from a Catalog Item record.*

3. **Save** the record to remain on the form.

4. Examine the pseudo-code for the script you will write.

   - If the logged-in user does not have the itil_admin role
     o Hide the CYM Cartridges – 3 Pack (1 of each color) [cym3] option.
     o Hide the CYM Cartridges – 6 Pack (2 of each color) [cym6] option.

5. Write the script.

```
1   function onLoad() {
2
3       if (!g_user.hasRoleExactly('itil_admin')) {
4           g_form.removeOption('pack_type', 'cym3');
5           g_form.removeOption('pack_type', 'cym6');
6       }
7   }
```
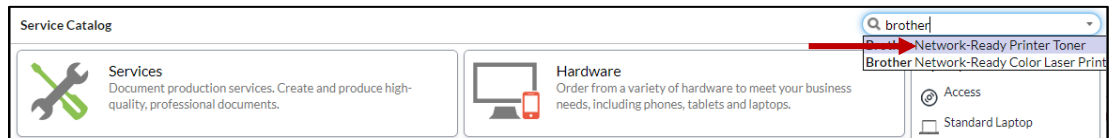
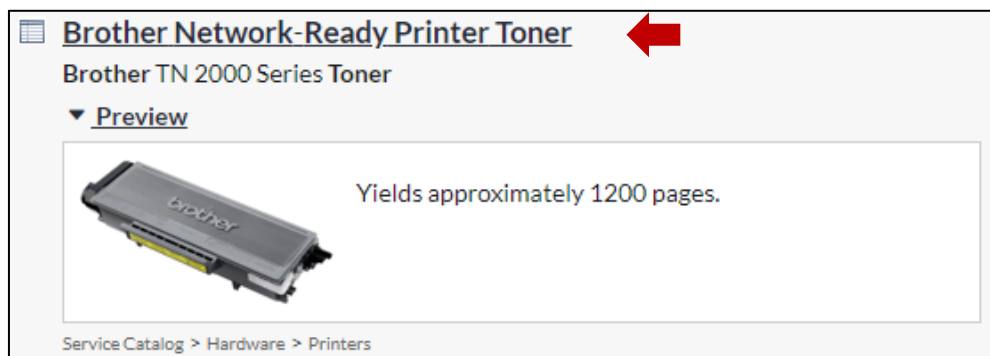6. Select **Update**.

## E. Test Your Work

The System Administrator does not have the 'itil_admin' role, therefore you do not have to impersonate anyone to confirm whether users without this role can only order black printer cartridges.

1. On the Brother *Network-Ready Printer* Toner Catalog Item's Header bar, select **Try It**.

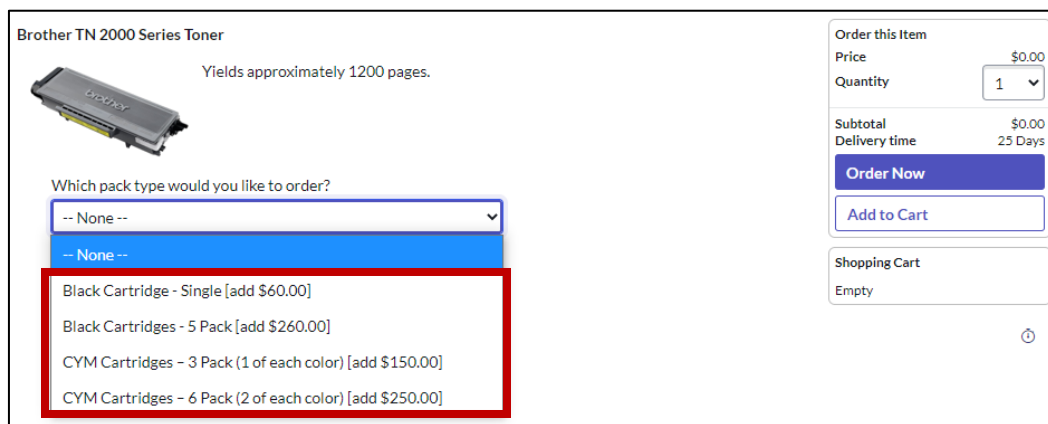2. Confirm only black printer cartridges are available for selection. If not, debug and re-test.

3.  Impersonate **Bow Ruggeri** (this user has the 'itil_admin' role).

4.  Navigate to **Self-Service > Service Catalog**.

5.  Use the **Search catalog** field to locate the *Brother Network-Ready Printer Toner* Catalog Item. Select it when it appears in the drop-down list.



6.  Select the **Brother Network-Ready Printer Toner** name to open the Catalog Item.



7.  Confirm Bow can order both black and CYM printer cartridges. If not, debug and re-test.



8.  End the impersonation. You should be logged in as the System Administrator when this step is complete.

# Lab Completion

Excellent work! With a little help behind the scenes from the sock monkeys you have successfully controlled available items for order using a Catalog Client Script.