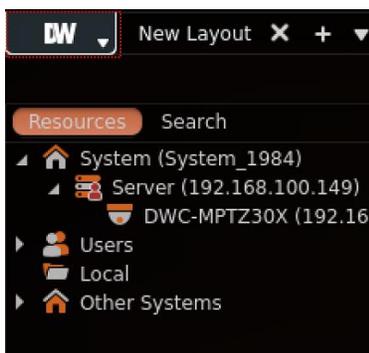


# Upgrading Spectrum 2.6 to 3.0 on Linux Ubuntu 14.04

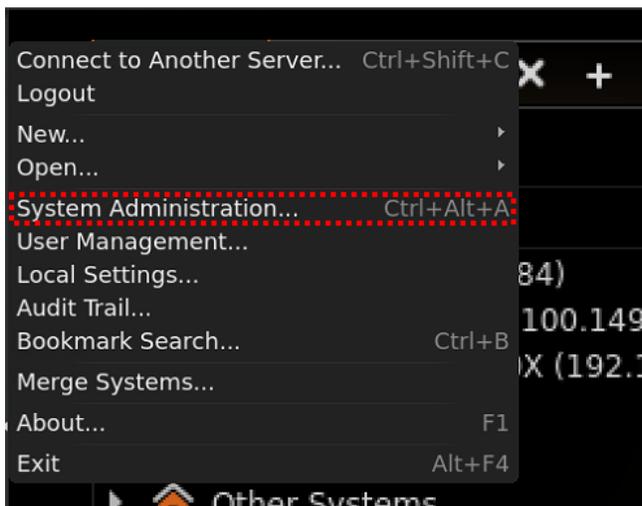
- [Backing Up the Spectrum 2.6 Database](#)
- [Upgrading Spectrum 2.6 to Spectrum 3.0](#)
- [Backing Up the Spectrum 3.0 Database](#)
- [UNINSTALLING SPECTRUM 3.0 ENTIRELY](#)
- [Clean Installing Spectrum 3.0](#)
- [Restoring the 3.0 Database](#)

## Backing Up the Spectrum 2.6 Database

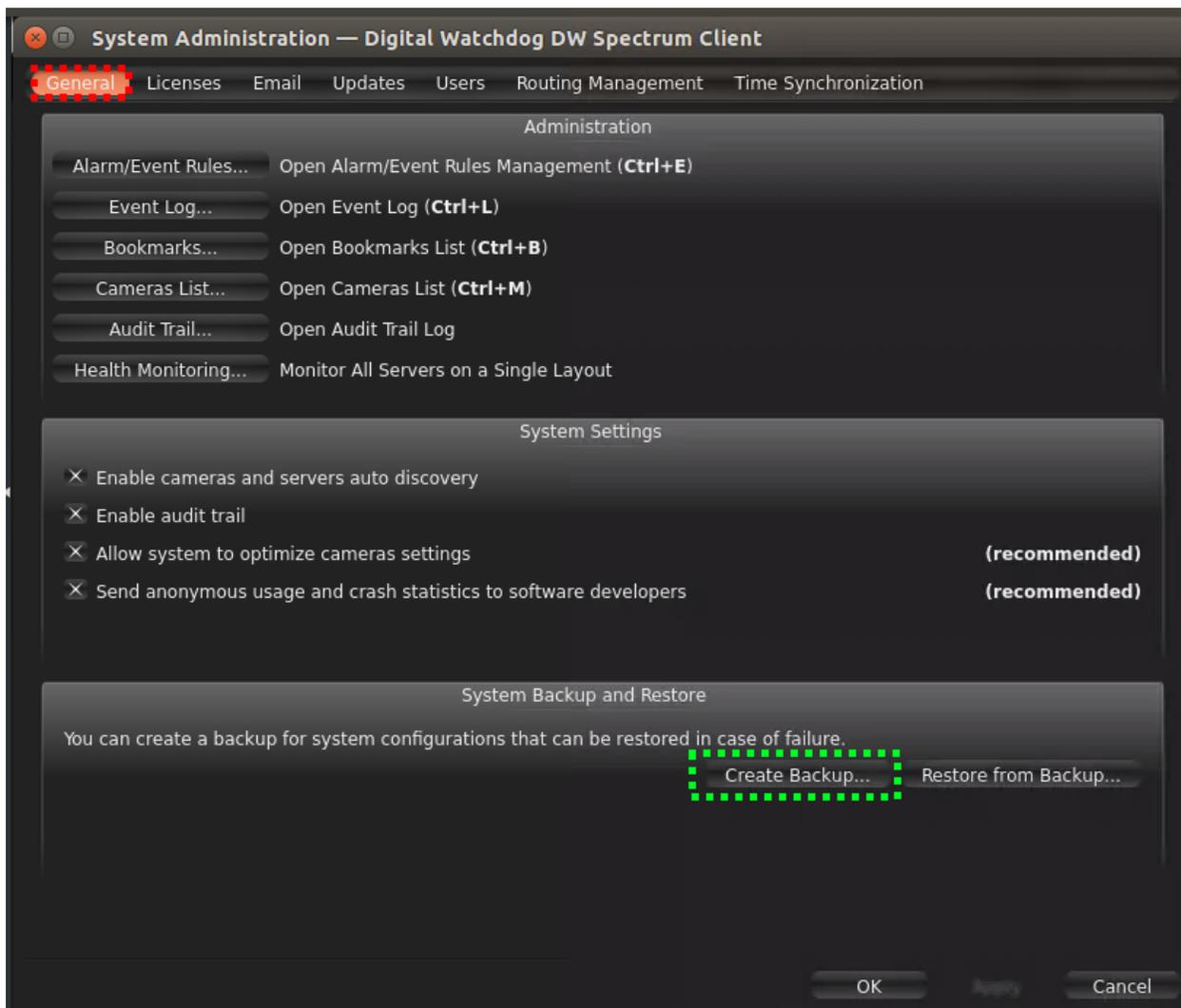
**Step 1:** While logged into your system as an administrator, **left-click** the **DW** icon in the upper left



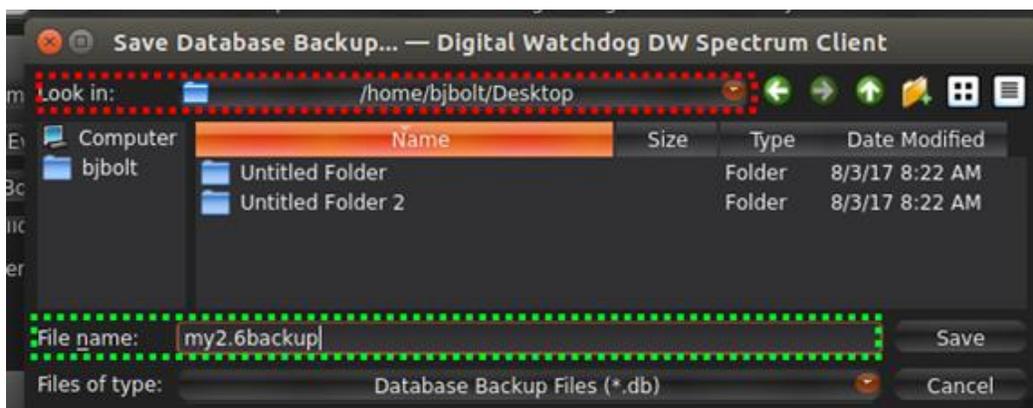
**Step 2:** **Left-click** **SYSTEM ADMINISTRATION**



**Step 3:** **Left-click** **GENERAL** if it's not already selected. Then **left-click** **CREATE BACKUP**.



**Step 4:** Select where you would like your file to save. In our example, the pathing we've selected is **/home/bjbolt/Desktop**. Depending on your model, the **bjbolt** might say another model name. This is fine. Create a file name. In this example, we are using "my2.6backup" to not confuse it for another backup we will be creating in the upcoming steps! **Left-click** on **SAVE**.



**Step 5:** The file should register as saved on your desktop! **Left-click OK** to continue, and close out of the Spectrum Client.



## Upgrading Spectrum 2.6 to Spectrum 3.0

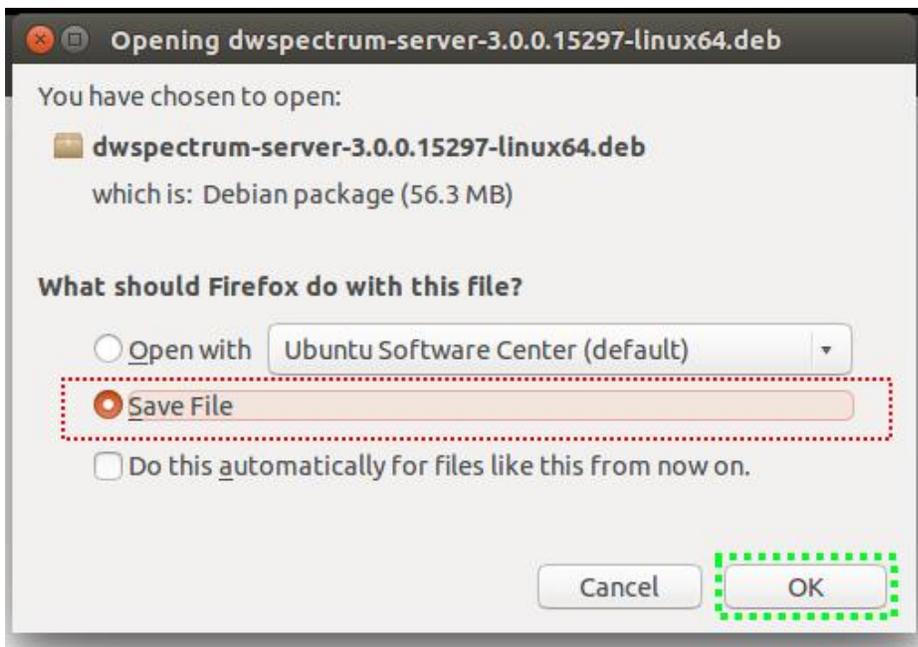
**Step 6:** This was to ensure that your system can be restored back to its original state, but it should not be necessary to use for the time being. Now, follow the link listed to download the latest version of Spectrum 3.0.

<http://digital-watchdog.com/productdetail/DW-Spectrum-IPVMS/>

Go down to the bottom of the page and select the **SOFTWARE** tab. From there, you will find the option for *Server, Client, Full, and Plug-In*. We are interested in the **FULL** option. Download the current Linux-based

build by selecting the arrow on the right. 

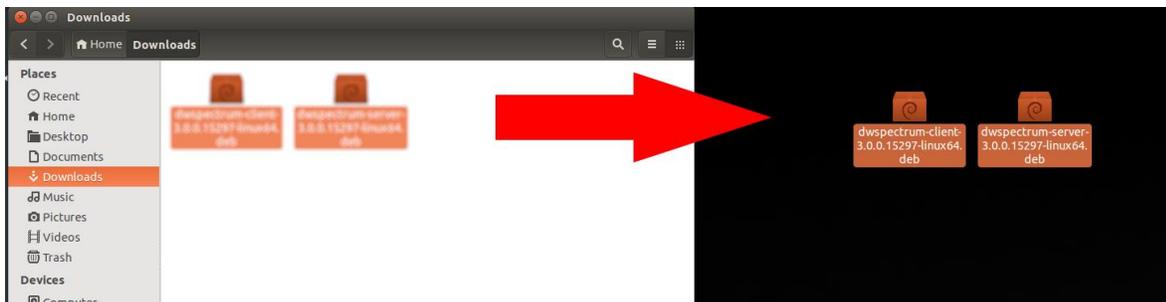
**Step 7:** You will have the 3.0 Zipped file request to either be opened or saved. Select **SAVED** and press **OK**. (In our example the file is unzipped, but this should work all the same)



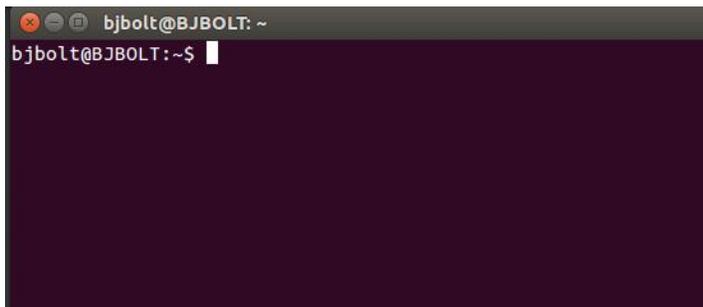
**Step 8:** Go to the left side of the screen and **left-click** the  icon. From there, **left-click** *Downloads*. You should see your zipped file. **Double left-click** it and you should see the *client* and *server* files.



**Step 9:** **Left-click and drag** across the files and then drag and drop them to the desktop.



**Step 10:** Press **CTRL + ALT + T** to bring up the Ubuntu Terminal.



**Step 11:** Type the command `sudo su`. The system will ask for a password. Type in the default “admin”. (NOTE: This will not show what you type, so don’t worry when you don’t see the letters showing up!) It will then show the next line as `root@[server]:/home/[servername]#`

```
root@BJBOLT: /home/bjbolt
bjbolt@BJBOLT:~$ sudo su
[sudo] password for bjbolt: admin
root@BJBOLT: /home/bjbolt#
```

**Step 12:** Type in `cd Desktop` and press **ENTER**. Then, type in `ls` and press **ENTER**. This will change the directory to show your Desktop, then list what is currently on your desktop.(NOTE: Terminal is case sensitive, type in exactly as on this guide!)

```
root@BJBOLT: /home/bjbolt/Desktop
bjbolt@BJBOLT:~$ sudo su
[sudo] password for bjbolt:
root@BJBOLT: /home/bjbolt# cd Desktop
root@BJBOLT: /home/bjbolt/Desktop# ls
dwspectrum-client-3.0.0.15297-linux64.deb  my2.6backup.db
dwspectrum.desktop                       teamviewer-teamviewer10.desktop
dwspectrum-server-3.0.0.15297-linux64.deb  unity-network-panel.desktop
firefox.desktop                           Untitled Folder 2
root@BJBOLT: /home/bjbolt/Desktop#
```

**Step 13:** Type in `dpkg -i dwspectrum-server` and press **TAB**. Then press **ENTER**. (“Tab” will auto fill the rest so you don’t have to type in the whole filename!)

```
bjbolt@BJBOLT:~$ sudo su
[sudo] password for bjbolt:
root@BJBOLT: /home/bjbolt# cd Desktop
root@BJBOLT: /home/bjbolt/Desktop# ls
dwspectrum-client-3.0.0.15297-linux64.deb  my2.6backup.db
dwspectrum.desktop                       teamviewer-teamviewer10.desktop
dwspectrum-server-3.0.0.15297-linux64.deb  unity-network-panel.desktop
firefox.desktop                           Untitled Folder 2
root@BJBOLT: /home/bjbolt/Desktop# dpkg -i dwspectrum-server-3.0.0.15297-linux64.
deb
```

**Step 14:** The system will now update your server to 3.0!

```
root@BJBOLT:/home/bjbolt/Desktop# dpkg -i dwspectrum-server-3.0.0.15297-linux64.
deb
(Reading database ... 167990 files and directories currently installed.)
Preparing to unpack dwspectrum-server-3.0.0.15297-linux64.deb ...
digitalwatchdog-mediaserver stop/waiting
mediaserver-eula license has already been accepted
Unpacking digitalwatchdog-mediaserver (3.0.0) over (2.6.0) ...
Setting up digitalwatchdog-mediaserver (3.0.0) ...
stop: Unknown instance:
digitalwatchdog-mediaserver start/running, process 9361
Processing triggers for ureadahead (0.100.0-16) ...
root@BJBOLT:/home/bjbolt/Desktop#
```

**Step 15:** Now, type in `dpkg -i dwspectrum-client` and press **TAB**. Then, press **Enter**. You will see the client install the update.

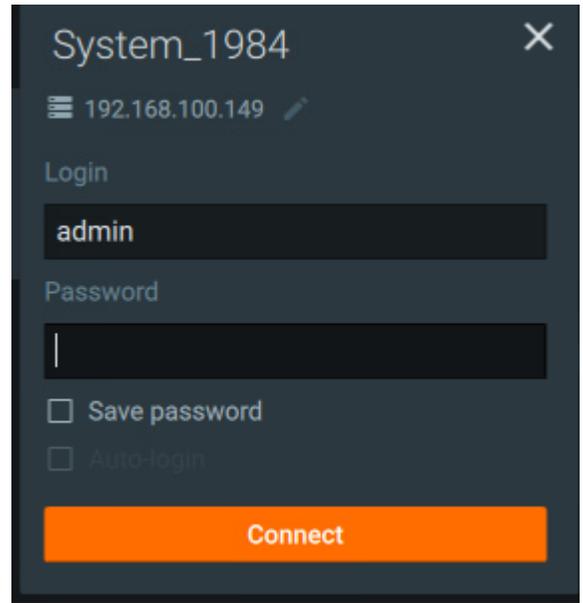
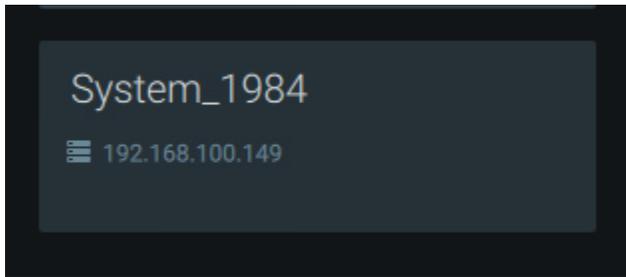
```
root@BJBOLT:/home/bjbolt/Desktop# dpkg -i dwspectrum-client-3.0.0.15297-linux64.
deb
(Reading database ... 167946 files and directories currently installed.)
Preparing to unpack dwspectrum-client-3.0.0.15297-linux64.deb ...
client-eula license has already been accepted
Unpacking digitalwatchdog-client (3.0.0) over (2.6.0) ...
Setting up digitalwatchdog-client (3.0.0) ...
Processing triggers for gnome-menus (3.10.1-0ubuntu2) ...
Processing triggers for desktop-file-utils (0.22-1ubuntu1) ...
Processing triggers for bamfdaemon (0.5.1+14.04.20140409-0ubuntu1) ...
Rebuilding /usr/share/applications/bamf-2.index...
Processing triggers for mime-support (3.54ubuntu1.1) ...
Processing triggers for hicolor-icon-theme (0.13-1) ...
root@BJBOLT:/home/bjbolt/Desktop#
```

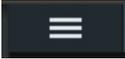
## Backing Up the Spectrum 3.0 Database

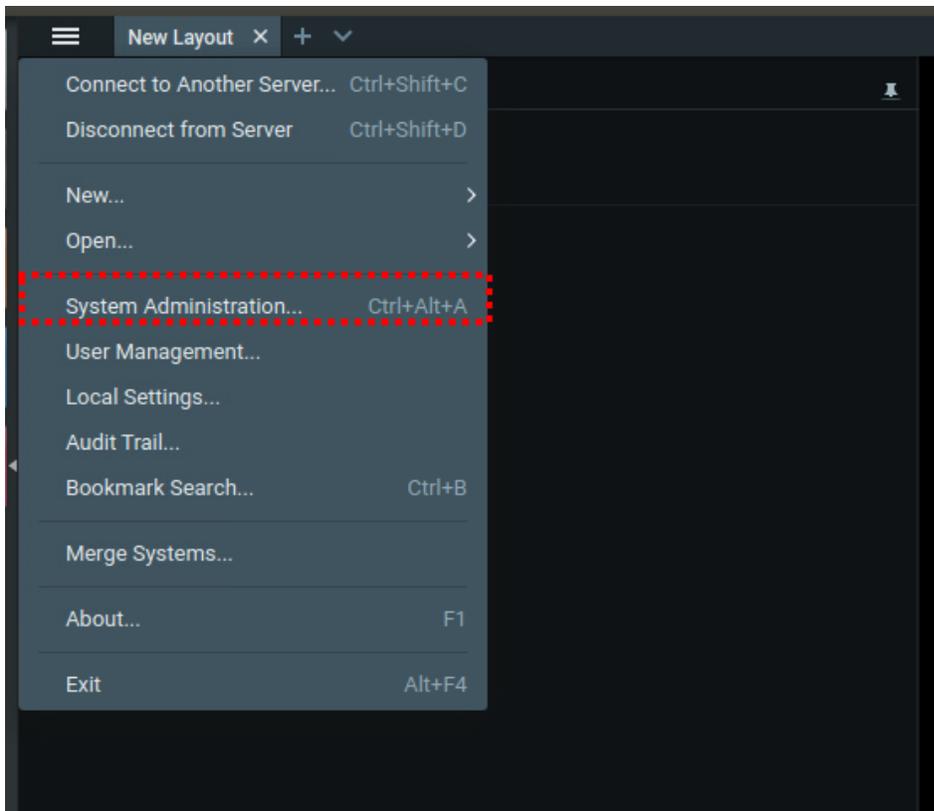
**Step 16:** Left-click the  icon and type in `dw` to pull up Spectrum. Left-click on the DW software. (Your old shortcut won't work, so use this method for now)



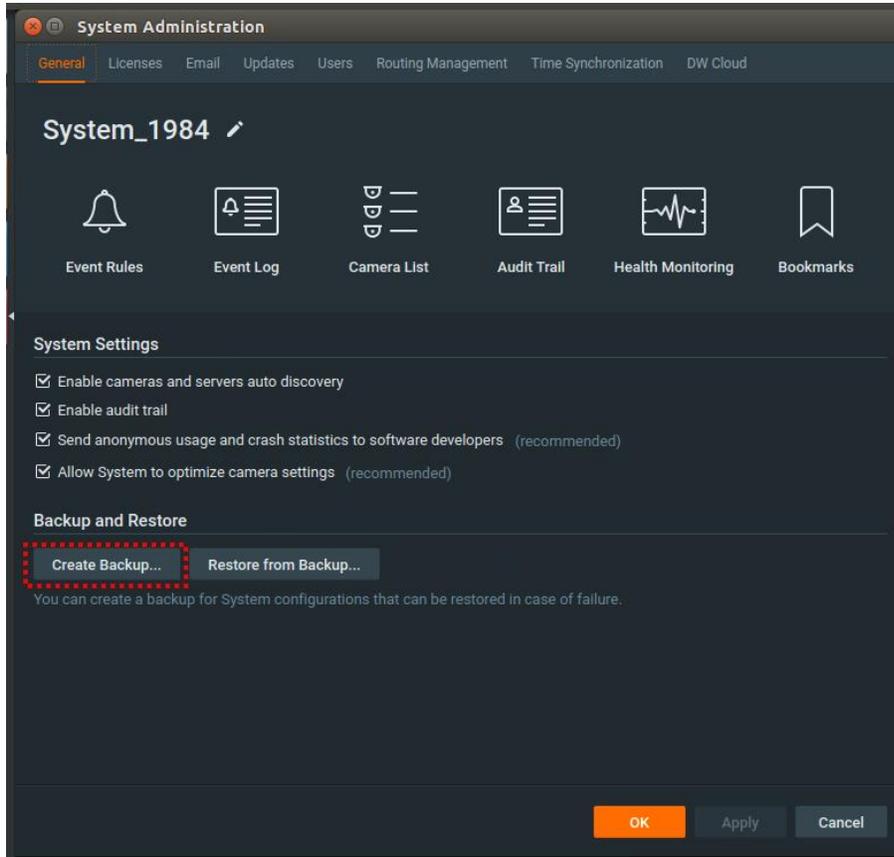
**Step 17:** Select your server from the list. The system will prompt you to apply your login credentials. Log in as an administrator.



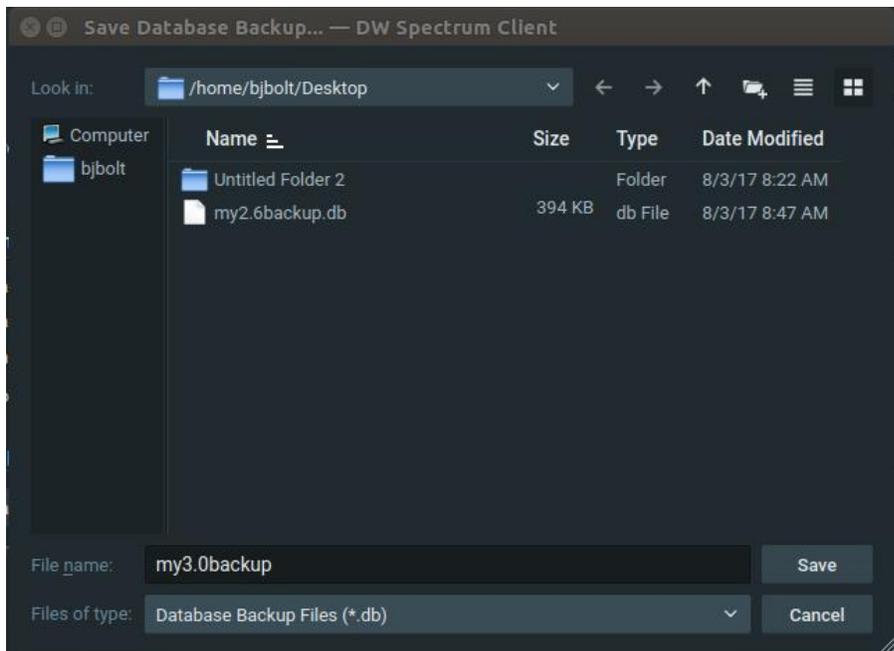
**Step 18:** Similar to steps 1 through 5, we will now go to the new  and go to **SYSTEM ADMINISTRATION>GENERAL**

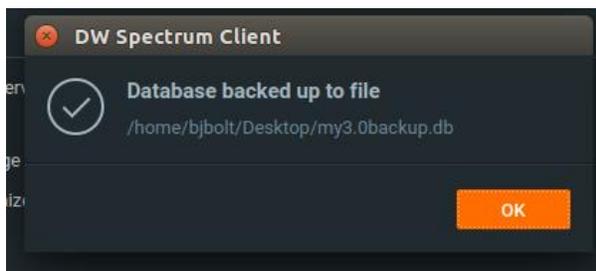


**Step 19:** Left-click on **CREATE BACKUP**



**Step 20:** This should look familiar. Make sure the pathing is still the same as the previous backup, and name the new backup *my3.0backup*. Left-click **OK**. The database should be saved successfully.





**Step 21:** You should take the opportunity to write down your licenses at this point. The database backup will back up your user names, camera names, and other settings, but it does **NOT** backup your license keys. Close and re-open Terminal. Type in the following commands:

*\*NOTE\* "bjbolt" should be replaced with your unit's name, such as "bjcube" for example.*

`sudo su` **ENTER.** Type `admin.` **ENTER.**

`cd /opt/digitalwatchdog/mediaserver/var/` **ENTER.**

`cp ecs.sqlite /home/bjbolt/Desktop/` **ENTER.**

`cp ecs_static.sqlite /home/bjbolt/Desktop/` **ENTER.**

`cd /home/bjbolt/Desktop/` **ENTER.**

`chmod 777 ecs.sqlite` **ENTER.**

`chmod 777 ecs_static.sqlite` **ENTER.**

The Terminal should look something like this:

```
root@BJBOLT: /home/bjbolt/Desktop
bjbolt@BJBOLT:~$ sudo su
[sudo] password for bjbolt:
root@BJBOLT:/home/bjbolt# cd /opt/digitalwatchdog/mediaserver/var/
root@BJBOLT:/opt/digitalwatchdog/mediaserver/var# cp ecs.sqlite /home/bjbolt/Desktop/
root@BJBOLT:/opt/digitalwatchdog/mediaserver/var# cp ecs_static.sqlite /home/bjbolt/Desktop/
root@BJBOLT:/opt/digitalwatchdog/mediaserver/var# cd /home/bjbolt/Desktop/
root@BJBOLT:/home/bjbolt/Desktop# chmod 777 ecs.sqlite
root@BJBOLT:/home/bjbolt/Desktop# chmod 777 ecs_static.sqlite
root@BJBOLT:/home/bjbolt/Desktop#
```

## UNINSTALLING SPECTRUM 3.0 ENTIRELY

**Step 22:** Close the Spectrum Client. Close Terminal (it will ask if you're sure, press yes). Re-open Terminal with **CTRL + ALT + T**. Type in `sudo su` and press **ENTER** again. Type in `admin` again and press **ENTER**.



```
root@BJBOLT: /home/bjbolt
bjbolt@BJBOLT:~$ sudo su
[sudo] password for bjbolt: admin
root@BJBOLT: /home/bjbolt#
```

**Step 23:** Type in the following. At the end of each line, press **ENTER**:

`apt-get remove --purge digitalwatchdog-mediaserver` (Press **"Y"** and **ENTER**)

Use the Arrow Keys to navigate to **"Remove the Database"** and press **ENTER**



`apt-get remove --purge digitalwatchdog-client` (Press **"Y"** and **ENTER**)

`apt-get autoremove`

`apt-get autoclean`

`apt-get clean`

`echo PURGE | sudo debconf-communicate digitalwatchdog-mediaserver`

Once done, the terminal should look something like this:

```

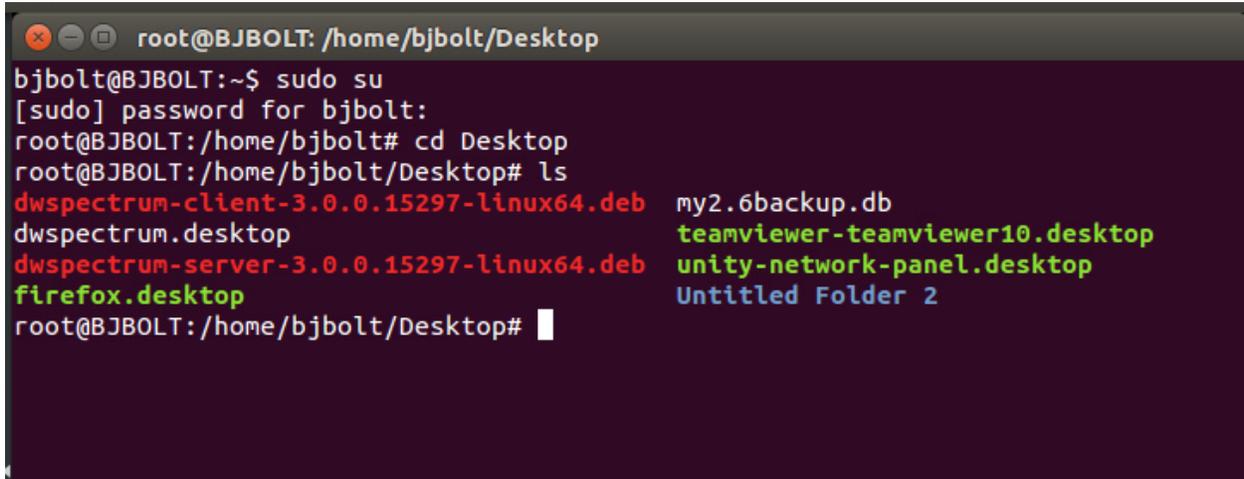
root@BJBOLT:/home/bjbolt# apt-get remove --purge digitalwatchdog-mediaserver
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be REMOVED:
  digitalwatchdog-mediaserver*
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 203 MB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 168587 files and directories currently installed.)
Removing digitalwatchdog-mediaserver (3.0.0) ...
digitalwatchdog-mediaserver stop/waiting
dpkg: warning: while removing digitalwatchdog-mediaserver, directory '/opt/digit
alwatchdog/mediaserver/share/dbsync-2.2/bin' not empty so not removed
dpkg: warning: while removing digitalwatchdog-mediaserver, directory '/opt/digit
alwatchdog/mediaserver/etc' not empty so not removed
Processing triggers for ureadahead (0.100.0-16) ...
root@BJBOLT:/home/bjbolt# apt-get remove --purge digitalwatchdog-client
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be REMOVED:
  digitalwatchdog-client*
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 278 MB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 168154 files and directories currently installed.)
Removing digitalwatchdog-client (3.0.0) ...
dpkg: warning: while removing digitalwatchdog-client, directory '/opt/digitalwat
chdog' not empty so not removed
Processing triggers for hicolor-icon-theme (0.13-1) ...
Processing triggers for gnome-menus (3.10.1-0ubuntu2) ...
Processing triggers for desktop-file-utils (0.22-1ubuntu1) ...
Processing triggers for bamfdaemon (0.5.1+14.04.20140409-0ubuntu1) ...
Rebuilding /usr/share/applications/bamf-2.index...
Processing triggers for mime-support (3.54ubuntu1.1) ...
root@BJBOLT:/home/bjbolt# apt-get autoremove
Reading package lists... Done
Building dependency tree
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@BJBOLT:/home/bjbolt# apt-get autoclean
Reading package lists... Done
Building dependency tree
Reading state information... Done
root@BJBOLT:/home/bjbolt# apt-get clean
root@BJBOLT:/home/bjbolt# echo PURGE | sudo debconf-communicate digitalwatchdog-
mediaserver
0
root@BJBOLT:/home/bjbolt#

```

This concludes the complete uninstall of Spectrum 3.0.

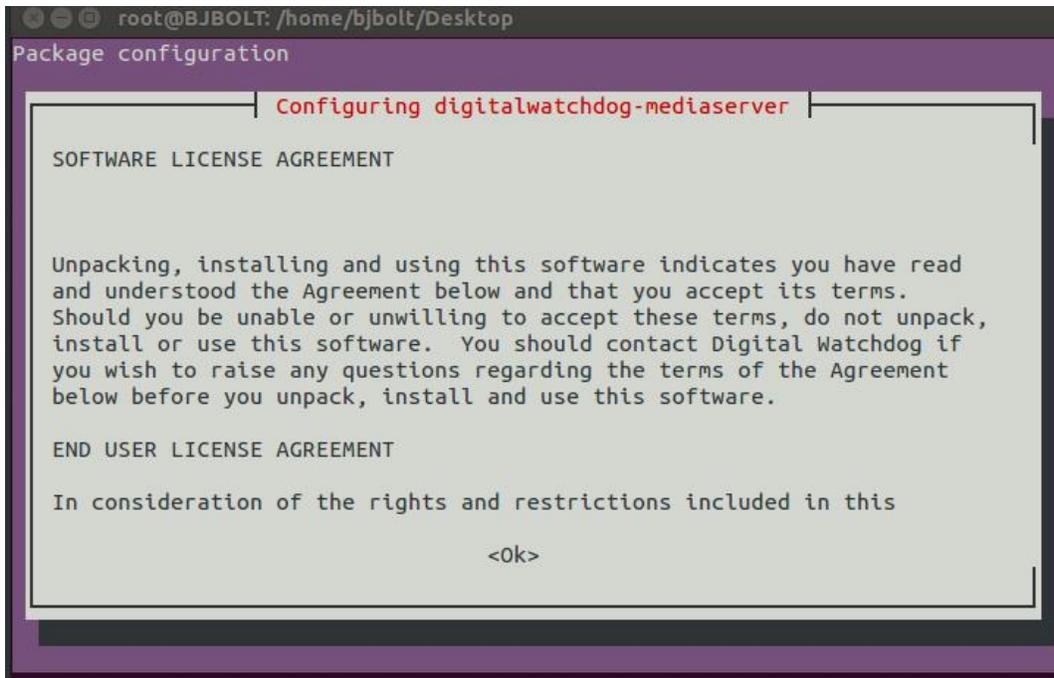
## Clean Installing Spectrum 3.0

**Step 24:** Type in *clear* to clean up the Terminal. Once again, we will change the directory to the Desktop by typing in *cd Desktop* and list the files by typing in *ls*. ( This is just step 12 again!)



```
root@BJBOLT: /home/bjbolt/Desktop
bjbolt@BJBOLT:~$ sudo su
[sudo] password for bjbolt:
root@BJBOLT:/home/bjbolt# cd Desktop
root@BJBOLT:/home/bjbolt/Desktop# ls
dwspectrum-client-3.0.0.15297-linux64.deb  my2.6backup.db
dwspectrum.desktop                       teamviewer-teamviewer10.desktop
dwspectrum-server-3.0.0.15297-linux64.deb  unity-network-panel.desktop
firefox.desktop                          Untitled Folder 2
root@BJBOLT:/home/bjbolt/Desktop#
```

**Step 25:** Now follow step 13 again! Type in *dpkg -i dwspectrum-server* and press **TAB**. Then press **ENTER**. This time, the system will ask for you to access the End Users License Agreement (EULA). If you accept, press **TAB** then **Enter**. Then use the arrow keys to navigate to **YES** if you accept the terms and press **ENTER**.



```
root@BJBOLT: /home/bjbolt/Desktop
Package configuration
Configuring digitalwatchdog-mediaserver

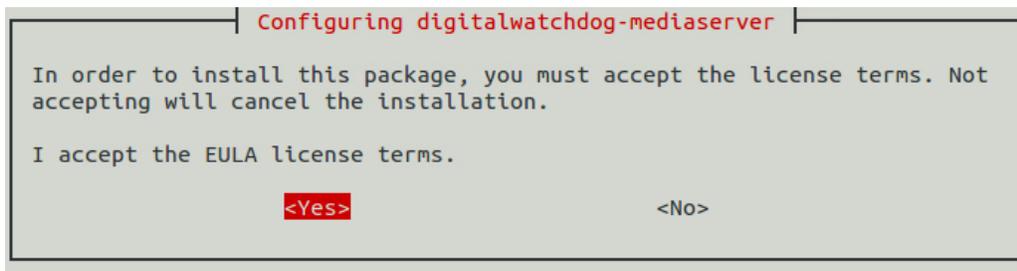
SOFTWARE LICENSE AGREEMENT

Unpacking, installing and using this software indicates you have read
and understood the Agreement below and that you accept its terms.
Should you be unable or unwilling to accept these terms, do not unpack,
install or use this software. You should contact Digital Watchdog if
you wish to raise any questions regarding the terms of the Agreement
below before you unpack, install and use this software.

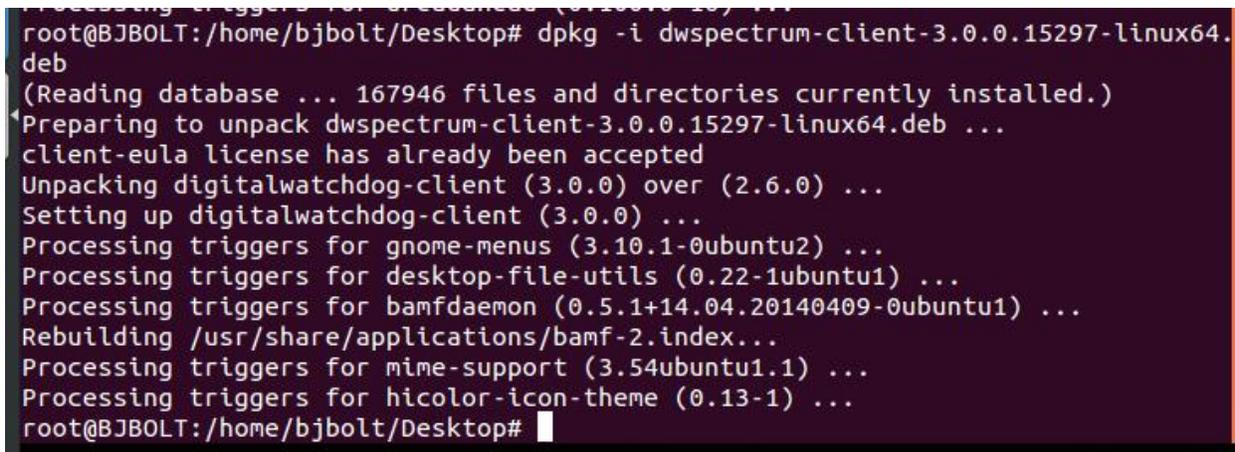
END USER LICENSE AGREEMENT

In consideration of the rights and restrictions included in this

<Ok>
```



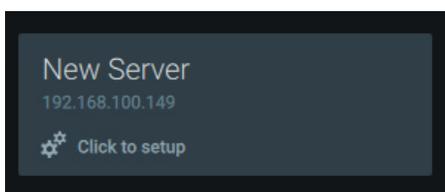
**Step 26:** Now, follow step 15 again, by typing in `dpkg -i dwspectrum-client` and pressing **TAB**, then **ENTER**.



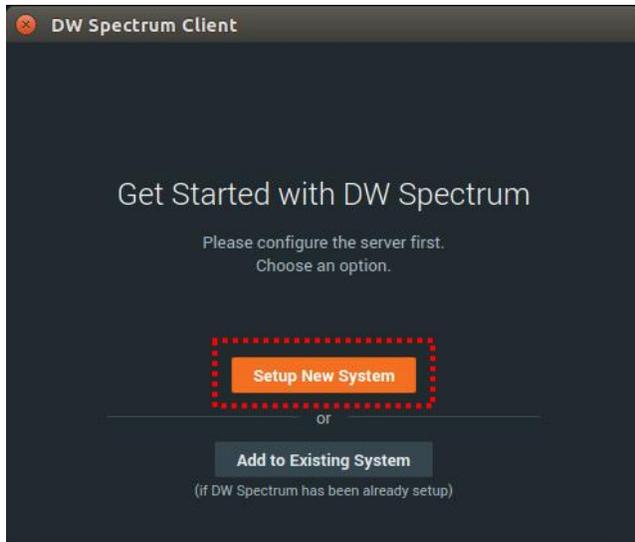
**Step 27:** Close the Terminal. Go to the  icon again, and type in **DW** in the search. Click and drag the DW icon to the desktop or sidebar for easy access. Open Spectrum.



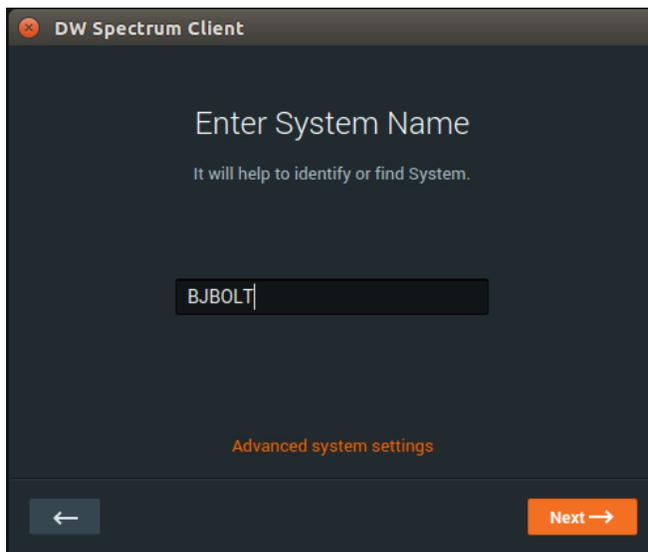
**Step 28:** Spectrum will now register the install as a first time setup. Select the “Click to Setup” option.



**Step 29:** Select the “setup New System” option.



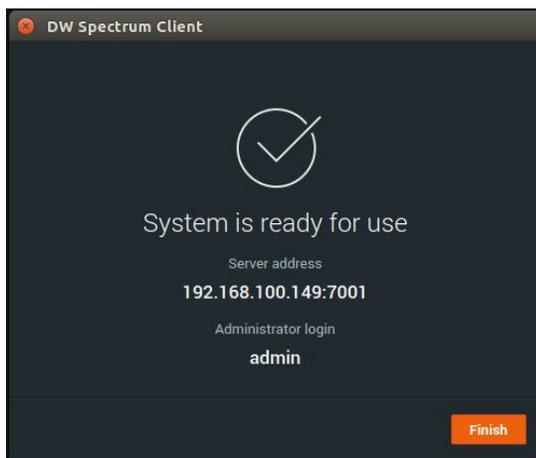
**Step 30:** Provide the Server with a name of your choosing. Alphanumerical characters are the only suggested characters. You can also select more advanced options as well. After choosing your options, select **NEXT**.



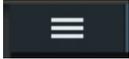
**Step 31:** Create a new password. Spectrum 3.0 requires that the password be at least eight (8) characters long. The default our servers come with is *admin1234*.

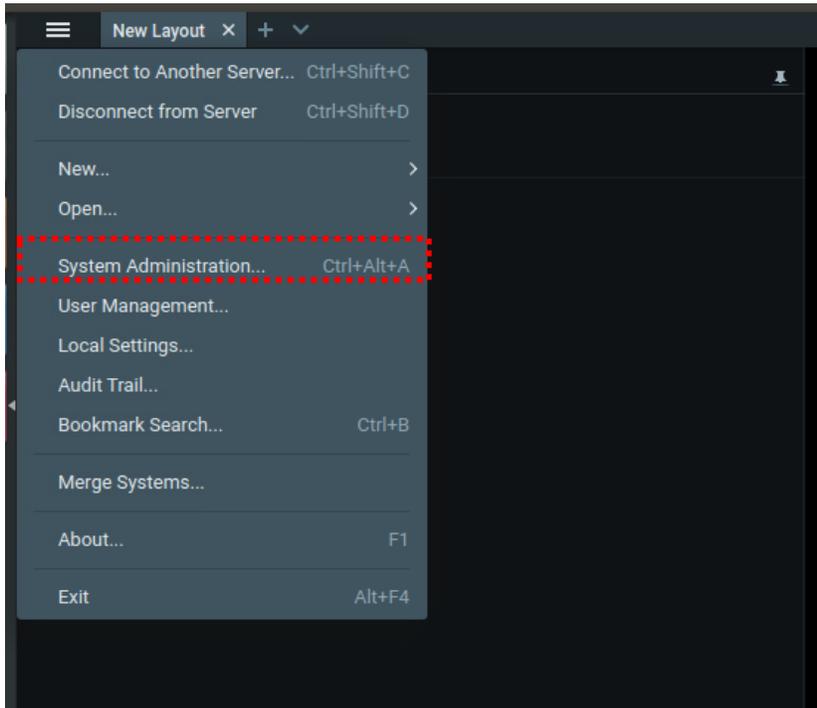


**Step 32:** Your system is now installed with a fresh version of Spectrum. With no licenses and a fresh database!

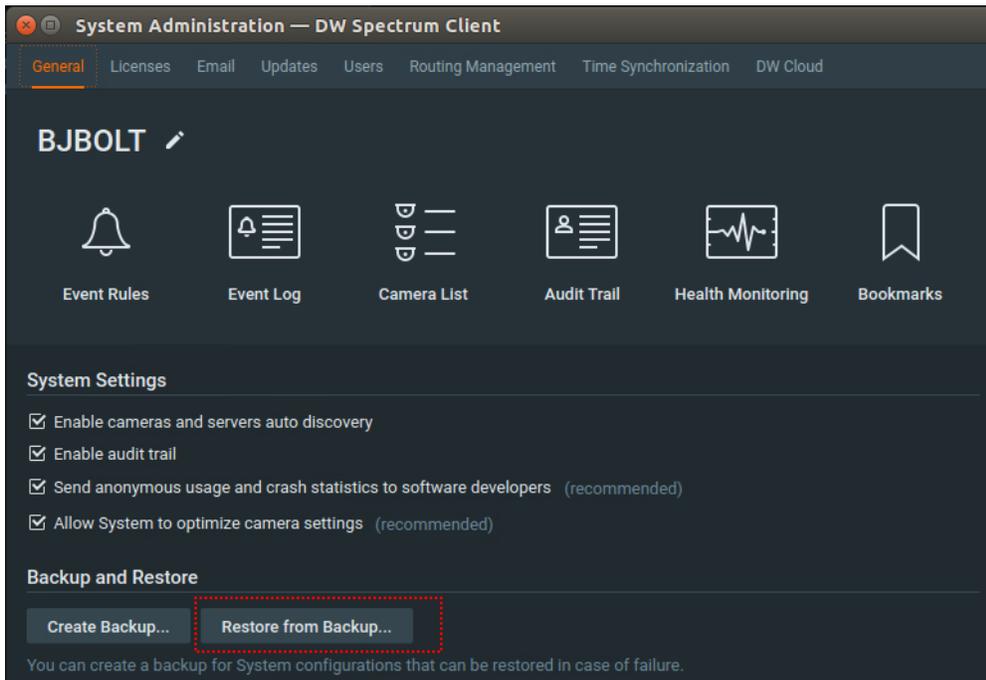


## Restoring the 3.0 Database

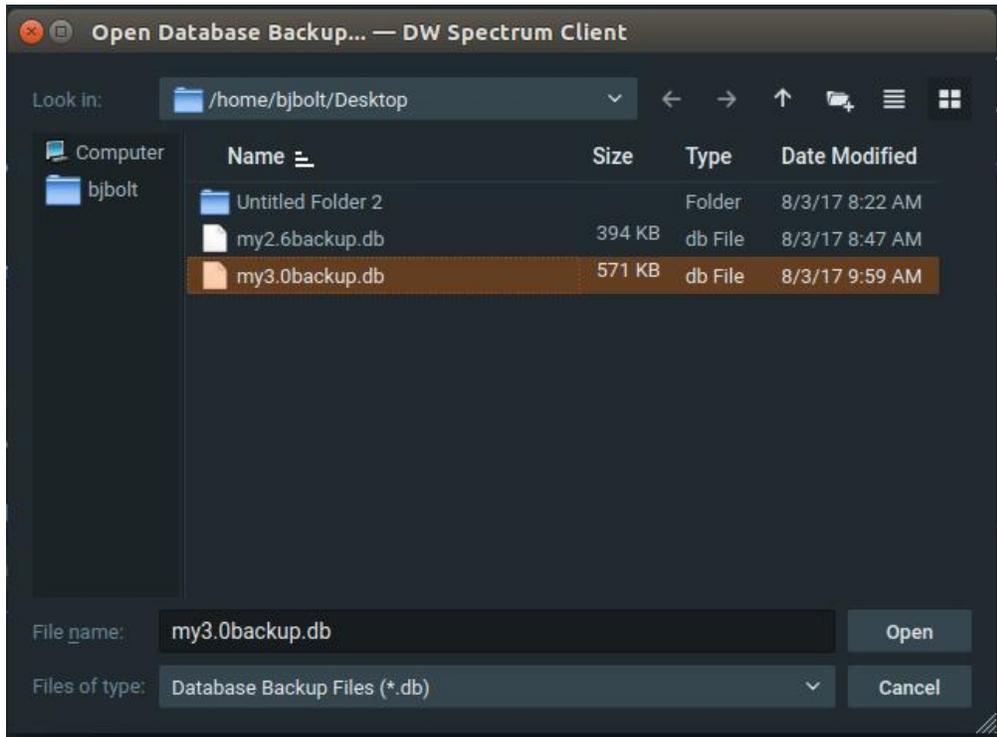
**Step 33:** Once again, we will go to the  icon in the upper left and go to **SYSTEM ADMINISTRATION**.



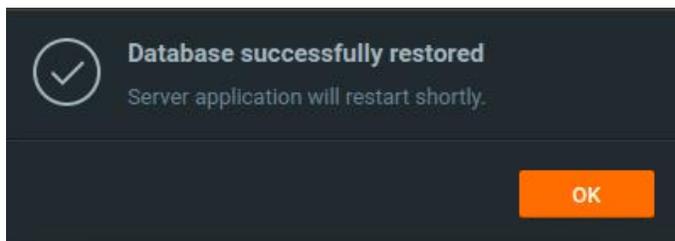
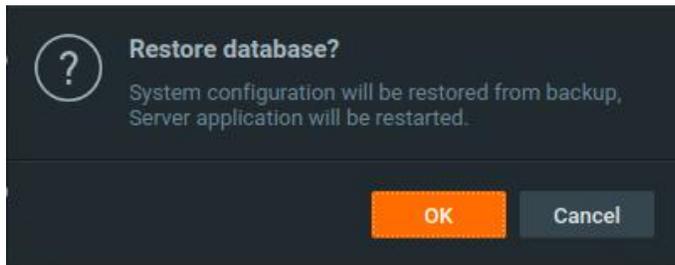
**Step 34:** Go to the “General” tab, then this time, select **RESTORE FROM BACKUP**.



**Step 35:** The file pathing should still be the same. Select the 3.0 backup that you created earlier and select **OPEN**.



**Step 36:** The system will ask if you are sure you wish to recover the database. Select **YES** and the system should successfully restore it. The media server will then restart and reconnect on its own.



**Step 37:** Note that the password on the restored database will be the password you created on the fresh install. At this point, we need to restore the licenses. Close and open the terminal one last time. Now, type in;

`sudo su` **ENTER.** Type in `admin` **ENTER.**

`stop digitalwatchdog-mediaserver`

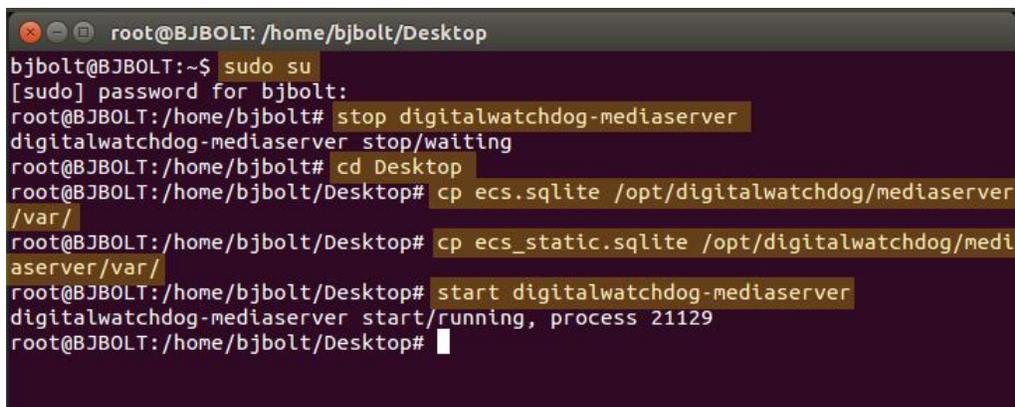
`cd Desktop` **ENTER.**

`cp ecs.sqlite /opt/digitalwatchdog/mediaserver/var/` **ENTER.**

`cp ecs_static.sqlite /opt/digitalwatchdog/mediaserver/var/` **ENTER.**

`start digitalwatchdog-mediaserver`

The Terminal should look like this:



```
root@BJBOLT: /home/bjbolt/Desktop
bjbolt@BJBOLT:~$ sudo su
[sudo] password for bjbolt:
root@BJBOLT: /home/bjbolt# stop digitalwatchdog-mediaserver
digitalwatchdog-mediaserver stop/waiting
root@BJBOLT: /home/bjbolt# cd Desktop
root@BJBOLT: /home/bjbolt/Desktop# cp ecs.sqlite /opt/digitalwatchdog/mediaserver/var/
root@BJBOLT: /home/bjbolt/Desktop# cp ecs_static.sqlite /opt/digitalwatchdog/mediaserver/var/
root@BJBOLT: /home/bjbolt/Desktop# start digitalwatchdog-mediaserver
digitalwatchdog-mediaserver start/running, process 21129
root@BJBOLT: /home/bjbolt/Desktop#
```

Close the terminal. You have just copied your licenses over to the new install!

**Step 38:** Open the Spectrum and verify all the resources and licenses have been restored.