

How-to Install IBM Systems Director V6.3

October 2012 | by [Jaqui Lynch](#)

In the past month, I've installed IBM Systems Director version 6.3 twice and thought I'd share some of what I learned. Systems Director V6.3 is very different from previous versions: It's far simpler to install but the key challenge is finding clear, step-by-step documentation on what to do.

After searching IBM Redbooks and reading the relevant READMEs, I finally used notes I had taken from watching [Nigel Griffith's videos](#) and from the lab at Power Systems Technical University. Here are the steps I followed:

1. On the server, I mounted the DVD and then copied all of its contents to a directory called `/software/basedvd`. I added Java6 to the front of the PATH as Systems Director expects Java6, and I had Java5 in the PATH:

```
export PATH=/usr/java6/jre/bin:/usr/java6/bin:$PATH
```

2. The next step involved ensuring there was sufficient free space in the directories used for the installation because `/opt` needs to have at least 4 GB free and `/tmp`, `/home`, `/usr` and `/var` also need plenty of free space. Two of my installation attempts failed before I got this correct.

3. Then it's time to install Systems Director as follows:

```
cd /software/sysdir63/basedvd/server
./dirinstall.rsp
```

4. When it completes, you'll need to configure the Agent Manager as well:

```
cd /opt/ibm/director/bin/
./configAgtMgr.sh
```

5. It will prompt you for a userid as well as passwords for the resource manager and for agent registration. Remember what you use here.

6. If director isn't running, then start it as follows:

```
/opt/ibm/director/bin/smstart
/opt/ibm/director/bin/smstatus -r    allows you to view the status until it says it's active.
```

7. Using a Web browser, you can now login as follows: `https://systemname:8422/ibm/console`

8. You will get a prompt about a security certificate problem—click on Continue.

9. Login as root.

10. At the HOME tab you'll go into initial setup, where you'll need to download and install the latest updates. In my case, these consisted of 134 files to get to Systems Director 6.3.1. Again it's necessary to ensure there's plenty of free space for the updates.

11. Once the update is complete, stop director and restart it:

```
smstop  
smstatus
```

If it's inactive, then:

```
smstart  
smstatus
```

Keep doing smstatus until it says "Active."

At this point, the base Systems Director is installed, however, no clients have been discovered. There's a known bug with common agent services (CAS) for which there's a workaround.

12. After installing the agent manager on each node, follow the instructions for the workaround in at [this support document](#).

This will involve stopping cas_agent, making changes to cas_src.sh in /var/opt/tivoli/ep/runtime/nonstop/bin and then restarting cas_agent (stopsrc and startsrc). At this point, you can click on systems discovery and provide the IP address of the server so it can discover its own agent.

13. Now install the agent on any LPARs you want to have it manage. This is done by mounting the DVD or the NFS directory containing the DVD and changing into the server/checkds subdirectory. Ensure you do the PATH export so Java6 is first in the path and ensure /opt, /tmp and /var have plenty of free space.

14. Now run the following to look for prerequisites and potential problems:

```
./checkds.sh -p commonagent
```

15. If this is successful, you can install the common agent on the LPAR:

Change into the Agents subdirectory of the DVD:

```
jar -xvf SysDir6_3_Common_Agent_AIX.jar
```

Now change into the agents/repository.

```
chmod u+x dir6_3_commonagent_aix  
./dir6_3_commonagent_aix
```

16. To ensure the unique ID is correctly set, run:

```
/opt/ibm/director/bin/genuid
```

It will either say the UID is already set or it will set one for you. At this time you want to ensure the Tivoli GUID is correctly set. This is critical if your LPARs are built from mksysbs as discovery gets messed up if there are duplicate GUIDs.

17. This is done by stopping the endpoint and then writing a new GUID as follows:

```
/opt/ibm/director/agent/runtime/agent/bin/endpoint.sh stop  
LANG=C;/usr/tivoli/guid/tivguid -Write -New
```

18. Prior to restarting the agent, make the changes for the workaround for cas_agent.sh mentioned earlier and start the agent:

```
/opt/ibm/director/agent/runtime/agent/bin/endpoint.sh start
```

19. At this point, you can go back to the Systems Director Web page and have it discover the new agent by clicking on

Systems Discovery, providing the IP address and then clicking on Discover Now. You can then monitor the log until it ends. You'll need to click where it says No Access and Request Access. Enter the root username and password. Once access is provided, you can then click on Collect Inventory in the HOME tab to get the inventory on the LPAR.

20. Now, you're ready to move forward adding plug-ins and trying out the remote access facilities provided by Systems Director.

Up and Running

It took me a while to figure out all of the steps. Even though they're documented in many places, I didn't find a definitive how-to. I followed the steps outlined here, and they worked for me. Hopefully, they'll make it easier for others. The whole process took around 40 minutes once I had it figured out.

Initially, I tried to do it the easy way and use the launch application provided. However, I discovered this required using XWindows (which is a pain over multiple VPNs and subnets), and it wanted me to answer all kinds of questions regarding the DB2 portion of the installation. Going back to the non-GUI install process actually made this much simpler to do.

I hope this will help you get Systems Director up and running quickly and smoothly in your environment. Overall, it was a simple and straightforward process, and I'm finding version 6.3.1 to be easy to figure out. I'm now in the process of working my way through VMControl and shared pools, so I'll provide an update once they're working well

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