

PRINTER NOTES

printer pooling

A printing pool is one logical printer connected to multiple printers through multiple ports of the print server. The printer that is idle receives the next document sent to the logical printer. This is useful in a network with a high volume of printing because it decreases the time users wait for their documents.

A printing pool also simplifies administration because multiple printers can be managed from the same logical printer on a server. If one device within a pool stops printing, the current document is held at that device. The succeeding documents print to other devices in the pool, while the delayed document waits until the nonfunctioning printer is fixed. Efficient printer pools have the following characteristics:

All printers in the pool are the same model.

Printer ports can be of the same type or mixed (parallel, serial, and network). It is recommended that all printers be in one location. Because it is impossible to predict which printer will receive the document, keep all printers in a pool in a single location. Otherwise, users might have a hard time finding their printed document.

[http://technet.microsoft.com/en-us/library/cc757086\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/cc757086(v=ws.10).aspx)

[http://technet.microsoft.com/en-us/library/cc784619\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/cc784619(v=ws.10).aspx) <http://technet.microsoft.com/en-us/library/cc958172.aspx>

You can create a printing pool to automatically distribute print jobs to the next available printer. A printing pool is one logical printer connected to multiple printers through multiple ports of the print server. The printer that is idle receives the next document sent to the logical printer.

Printer priority

Open Printers and Faxes.

Right-click the printer you want to set, click Properties, and then click the Advanced tab. In Priority, click the up or down arrows, and then click OK. Or, type a priority level, where 1 is the lowest level and 99 is the highest, and then click OK. Click Add Printer to add a second logical printer for the same physical printer. For instructions, see Related Topics.

Click the Advanced tab.

In Priority, set a priority higher than that of the first logical printer. Instruct the regular group of users to use the first logical printer name and the group with higher priority to use the second logical printer name. Set the appropriate permissions for the different groups.

Printer security

Set permissions for print servers

Note:

Open Print Management.

In the left pane, click Print Servers, right-click the applicable print server and then click Properties. On the Security tab, under Group or users names, click a user or group for which you want to set permissions. Under Permissions for <user or group name>, select the Allow or Deny check boxes for the permissions listed as needed.

To edit Special permissions, click Advanced.

On the Permission Entry dialog box, select the Allow or Deny check boxes for the permissions that you want to edit.

Web Services on Devices

Print and Document Services

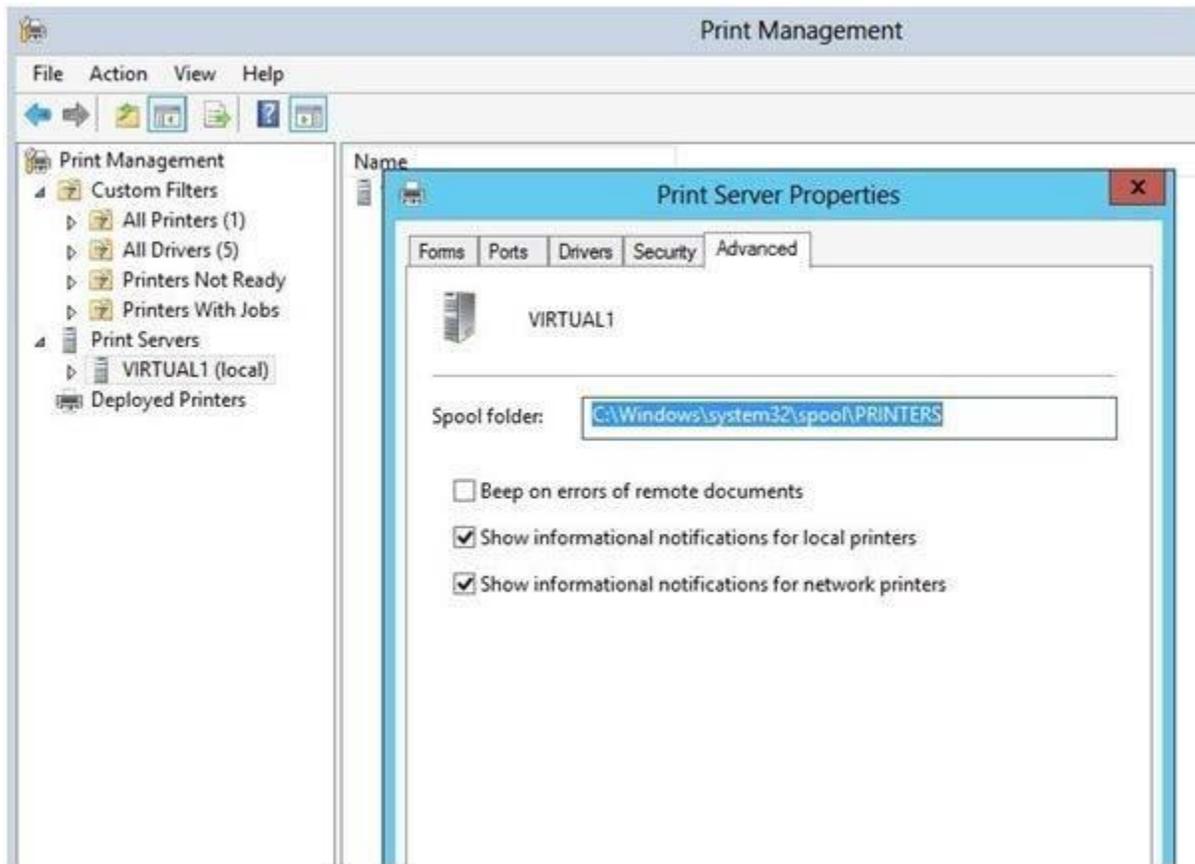
Print and Document Services enables you to centralize print server and network printer tasks. With this role, you can also receive scanned documents from network scanners and route the documents to a

shared network resource, Windows SharePoint Services site, or email addresses. Windows Server 2012 uses Web Services on Devices (WSD) technologies to integrate scanning devices into the system
<http://technet.microsoft.com/en-us/library/hh831468.aspx>
<http://technet.microsoft.com/en-us/library/jj134196.aspx>

Print Server Properties

Windows spools print jobs by default to the following directory as they are processed:
%SystemRoot%\SYSTEM32\SPOOL\PRINTERS.

It is possible for the administrator of a Windows print server to manually instruct Windows the location for placing the spool files, if for example there is a concern for disk space.



<http://support.microsoft.com/kb/137503/en-us>

Add an additional driver

Print Management Console

1. Open the Print Management Console by opening Server Manager, click Tools, and then click Print Management.
2. Expand Print Servers, and then expand the Print Server name. Right click Drivers and select Add Drivers.
3. To add a v4 driver for a device, select the driver that has v4 or Class Driver in the name

Branch office direct printing

Branch Office Direct Printing can reduce Wide Area Network (WAN) usage by printing directly to a print device instead of a server print queue. This feature can be enabled or disabled on a per printer basis and is transparent to the user.

This feature requires a print server running Windows Server 2012 and clients running Windows 8. It is enabled by an administrator using the Print Management Console or Windows PowerShell on the server.

■ To Configure Branch Office Direct Printing

[Click to collapse. Double-click to collapse all.](#)

1. Open the Print Management Console and expand **Print Servers**.
2. Expand the print server where the print queues are installed and then expand **Printers**.
3. Right click the printer that you wish to manage and select **Enable Branch Office Direct Printing**. Multiple printers can be configured at the same time by highlighting each printer prior to this step.

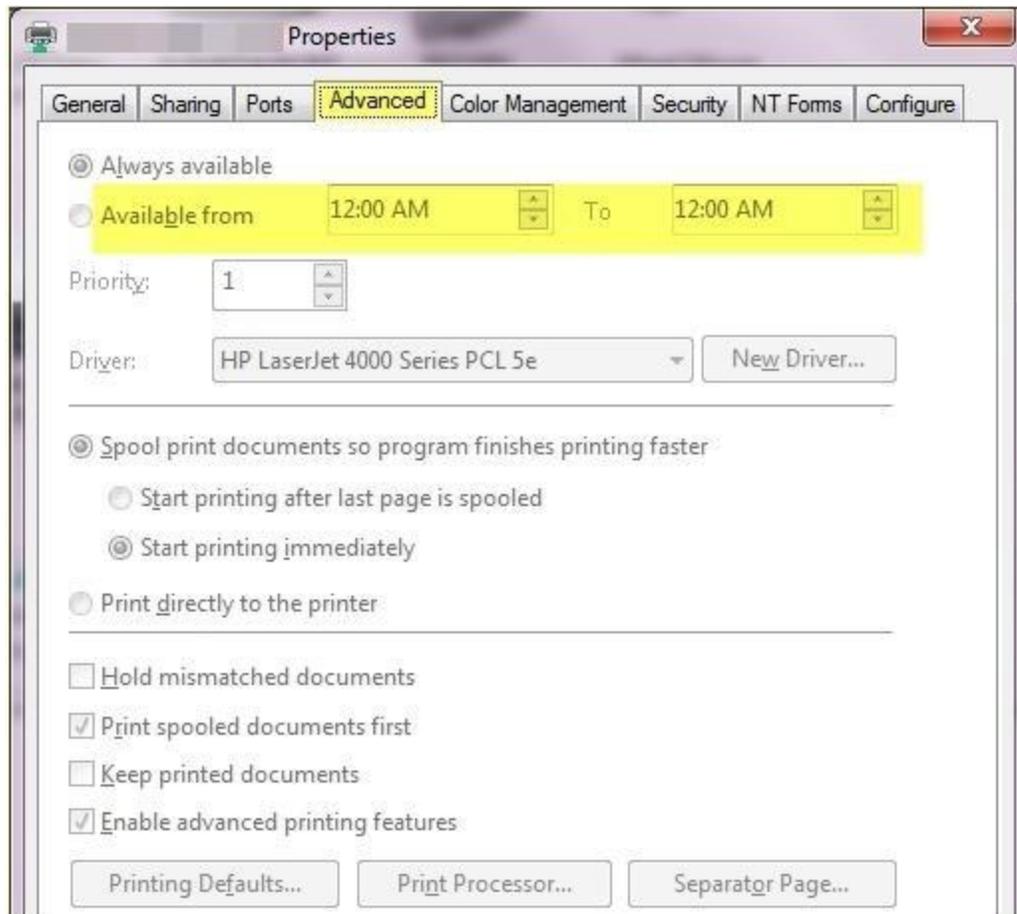
Powershell

```
Set-Printer -name <String> -ComputerName <String> -RenderingMode BranchOffice
```

Printer Availability

Explanation:

When navigating to the printer properties, the Properties tab is divided into several different tabs of which the Advanced tab will give you access to the scheduling where you can configure the availability of the printer.



Internet printing services

Deploy a printer using group policy management

2 possible solutions for natively deploy printers using Group Policy without the need for any scripting:

- 1) Group Policy Preferences – available in Windows Server 2008 and later
- 2) Print Management – available in Windows Server 2003 R2 and later

Using Group Policy Preferences to deploy printers are described in an earlier blog post, available [here](#). Therefore, I won't explain any further details regarding this.

I will focus on the Print Management which has a powerful “Deploy with Group Policy” feature.

Configure printer deployment on

print servers

To use the “Deploy with Group Policy” feature, you need to install the “Print Management Component” feature from “Add/Remove Windows Components” in Windows Server 2003 R2. In Windows Server 2008/2008 R2 you need to install the “Print Server”-role from the “Add Roles Wizard”.

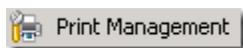
When installed, you`ll find “Print Management” under “Administrative tools” on the Start menu:

Configure printer deployment on

print servers

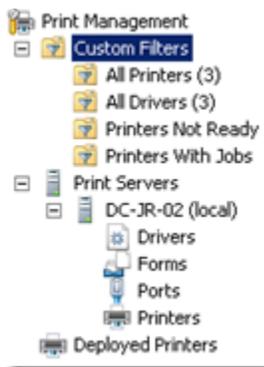
To use the “Deploy with Group Policy” feature, you need to install the “Print Management Component” feature from “Add/Remove Windows Components” in Windows Server 2003 R2. In Windows Server 2008/2008 R2 you need to install the “Print Server”-role from the “Add Roles Wizard”.

When installed, you`ll find “Print Management” under “Administrative tools” on the Start menu:



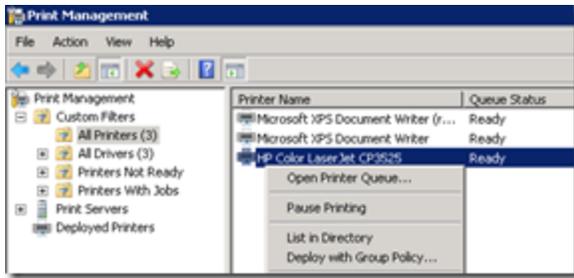
The following screenshots are taken from Windows Server 2008 R2.

When you open the Print Management Console you will see an overview of Custom Filters, Print Server and Deployed Printers:

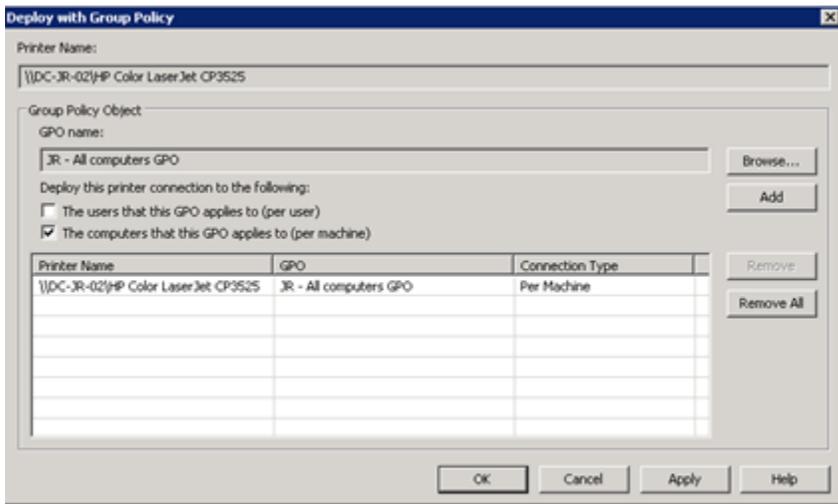


You may add additional filters and print servers to the console, which you can read more about in the links in the bottom of this post. For now, we`ll focus on the printer deployment part.

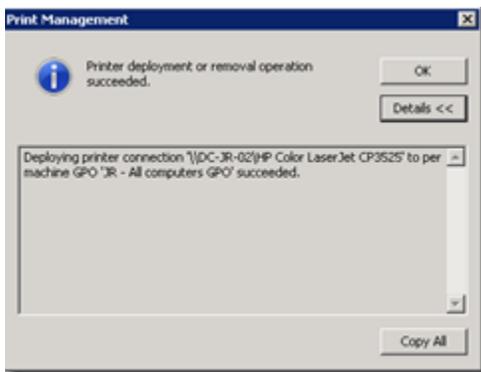
Right-click the printer you want to deploy, and select “Deploy with Group Policy”:



Select “Browse” to choose a Group Policy Object where the printer connection will be deployed. Select “per user” and/or “per machine” and press “Add”. Then click “OK”:



You should now receive a message stating that the deployment operation was successful. Click “OK”:



The printer will now be deployed to client computers.

Migrate printers

Printbrm.exe

