How to deploy local queues that will send jobs to the server

Normally a deployed print queue holds each job on the user's own PC, in the PDAgent, until the user releases it at the printer. That has some drawbacks:

- If the user's laptop goes to sleep, or leaves the network, before they release the job, the job cannot print.
- If the PDAgent on the user's PC has lost its connection to the PDServer at the moment of release, the printer panel shows the user an error.

Sending jobs to a server instead avoids both. The server effectively becomes the print server, and this has advantages over a Windows Server print server with shared (SMB) printers:

- The server can run a desktop version of Windows, such as Windows 10 or 11.
- Client PCs do not need to be joined to a domain. Their jobs can be identified by their local Windows account, or users can be asked to log in to the PDAgent Client.
- It avoids the problems some sites have deploying shared printer connections with Group Policy since Microsoft's "PrintNightmare" security changes.

Choose an approach

Approach	Where jobs wait	Best for
1. Jobs wait on the PDServer	Uploaded to the PDServer straight after printing	No print server at all. Laptops, VPN users and PCs that are not always on.
2. Forward to a PD queue on a server	On the PDAgent of a server	A central print server running PDAgent. Encrypted, and works with Windows Protected Print.
3. Manual LPR port to a server's PDAgent	On the PDAgent of a server	Existing setups built this way, or where IPP is not an option.

Options 1 and 2 are set up by choosing the deployment type when you add the Queue Deployment. Option 3 is the original method and still works.

Option 1: Jobs wait on the PDServer

1. In Resource Manager, expand **Print Management** > **Print Queue Management**, click **Queue Deployments** and click **Add**.
2. In the **New queue deployment** window, choose **Capture by local PDAgent – jobs wait on the PD Server** and click **OK**.
3. Complete the deployment as described in *How to manually create a Queue Deployment*. On the **PD settings** tab, **Jobs wait at** shows the PDServer the jobs are uploaded to.

To change an existing deployment instead, set **Jobs wait at** on its **PD settings** tab to the PDServer. See *How to store held print jobs on the PDServer*.

Option 2: Forward to a PD queue on a server

On the server:

1. Install PDAgent on the server.
2. In Resource Manager, click **PD Agents**, double-click the server's PDAgent and open the **Print services** tab. In the **IPP & LPD services** section, make sure **Enable IPP** is ticked.
3. Create the PD queue that will receive the jobs: expand **Print Management** > **Print Queue Management**, click **PD Queues** and click **Add PD queue**. See *How to create a PD queue*.

Then create the deployment:

1. Click **Queue Deployments** and click **Add**.
2. In the **New queue deployment** window, choose **Forwards to PD queue - jobs wait on the server PDAgent** and click **OK**.
3. Set **Receiving PD queue** to the PD queue you created. Set **Installed queue name** to **Use destination queue name** if the queue on each PC should have the same name.
4. Set the **Deployment scope**, then click **OK**.

The PD settings (matched device, secure release and so on) come from the receiving PD queue, so there is no **PD settings** tab. Users see each job's sending progress in their Windows queue, and the job disappears from it once it has reached the server. See *How to manually create a Queue Deployment* for the full set of options.

Option 3: Manual LPR port to a server's PDAgent

Set up the server

1. Install PDAgent on the server.
2. In Resource Manager, click **PD Agents**, double-click the server's PDAgent and open the **Print services** tab.
3. In the **IPP & LPD services** section:
   - Tick **Enable LPD** and note the **Port** (515 by default).
   - Set **LPD Job owner** to where the user name is read from in each LPR job: **LPR username** (the user name sent with the job), or part of the LPR queue name (**queuename{username} in LPR queue**, **queuename.username in LPR queue** or **queuename-username in LPR queue**). Tick **then try** to add up to two fallbacks.
   - Optionally, under **Jobs that cannot be assigned to a queue from IPP/LPD info**, tick **Use the first queue that is matched to device**, or choose a queue in **Use this queue**, to catch jobs that do not match a queue on the server.
4. In the **Print job user authentication** section, set **Use** to how jobs are assigned to users: **Initial user (job owner)** uses the job owner's name, **Require authentication from PDAgent Client** makes the user log in to the PDAgent Client on their PC, and **Allow Job Owner until client auth received** uses the job owner's name until the user logs in.

5. Click **OK + Refresh** to save and apply the settings to the PDAgent straight away.

Point the deployment's port at the server

1. Expand **Print Management** > **Print Queue Management**, click **Queue Deployments** and double-click the Queue Deployment. It must be a **Manual port configuration** deployment. If it does not exist yet, see *How to manually create a Queue Deployment*.
2. Click the **Platform configs** tab. Double-click the configuration for the platform of the PCs, or click **Add** and choose the platform.
3. Choose the **Driver**, and optionally set the **Win queue settings** (for example sharing).
4. On the **Port configuration** tab, set **Port type** to **Standard TCP/IP ports (RAW/LPR)**. If there is already a port, select it and click **Delete**. Then click **Add**.
5. In the **Standard TCP/IP Port** window, change only the **Address** from *127.0.0.1* to the IP address of the server. Check that the other settings are as follows (they are the defaults):
   - **Port name** begins with **PD_**. Print Director never pauses a queue whose port name begins with PD_, even when the queue is matched to a device, because its jobs are captured by a PDAgent.
   - **Protocol** is **LPR**.
   - **Port** is the same as the LPD **Port** on the server's PDAgent (515 by default).
   - **Set LPR queue to print queue name** is ticked, so the server knows which queue each job belongs to.
6. Click **OK** to close the **Standard TCP/IP Port** window, then **OK** to close the **Platform configuration** window.
7. Check the rest of the deployment's settings and click **OK**.

This approach uses an LPR port, which is not compatible with Windows Protected Print mode.

Apply the change

PDAgents pick up deployment changes the next time they refresh their settings. To apply the change straight away, click **PD Agents**, right-click the PDAgent and choose **Refresh**, or refresh every PC from **PD Servers**: right-click the PDServer and choose **Send command** > **Refresh all connected PDAgents**.

Related articles

- *How to create a PD queue*
- *How to manually create a Queue Deployment*
- *How to store held print jobs on the PDServer*
- *How to deliver print jobs securely with IPPS*
- For every setting on the Queue deployment window, see *Queue Deployment Configuration*.

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