



Quick Start Guide

For Microsoft Azure Deployments

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Contents

Introduction	1
Deployment Scenario	1
Recommended System Requirements	1
Recommended Installation Procedure	2
STEP 1: Create & Deploy a UniPrint Infinity VM in Azure	2
STEP 2: Install UniPrint Print Server	8
STEP 3: Install UniPrint Application Server On A PC/Workstation	10
STEP 4: Install a Test Printer On The UniPrint Print Server	12
STEP 5: Use PrintPAL to Add the Test Printer In A User Session	14
Printing With The UniPrint Azure VM	18

Introduction

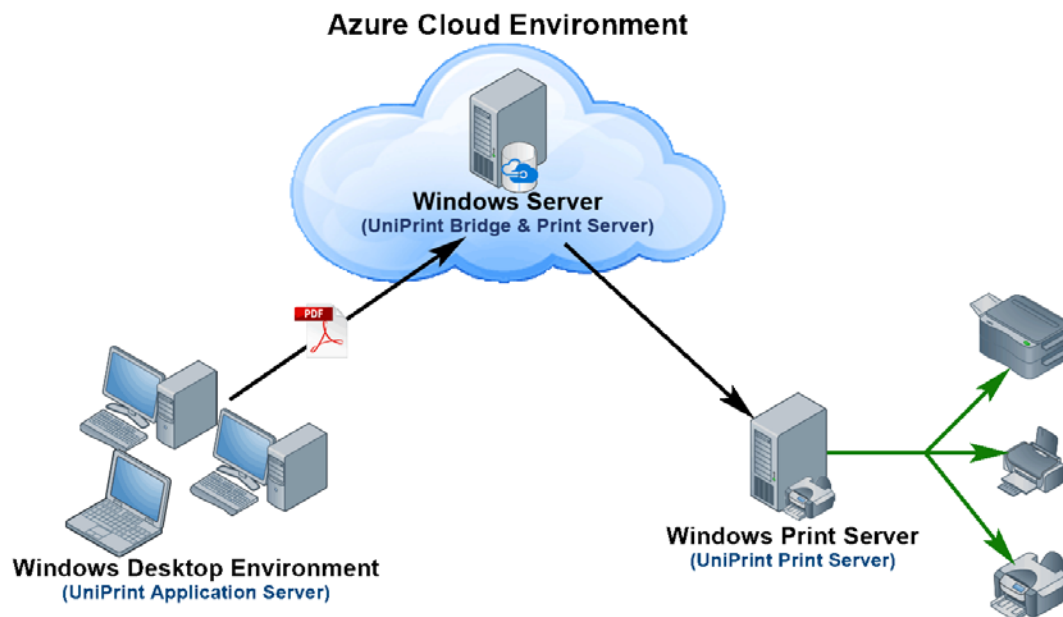
This step-by-step guide is intended for those who want to set up UniPrint Infinity with minimal configuration using Microsoft Azure. UniPrint.net has provided a virtual machine in Azure that already has the UniPrint Bridge and UniPrint Print Server components already installed. Only the necessary steps required to start printing from an RDP/ICA session will be covered. For additional assistance on customizing UniPrint Infinity or setting up many of UniPrint Infinity's features such as SecurePrint, Printer Delegation, Printer Profiles, Archiving, Statistics Monitoring and the vPad refer to the [UniPrint Infinity Administrator's Guide](#).



NOTE: To access advanced printer preferences, for example, stapling and hole punching, user Printer Profiles. For more information on setting up and using Printer Profiles, refer to the [UniPrint Infinity Administrator's Guide](#).

This quick start guide is specific to environments whereby desktop PCs connect to terminal servers. All components, with the exception of Mobile printing, Archiving and Statistics, will be installed such that full testing can be performed. However, only instructions on printing from a user's session will be presented.

Deployment Scenario



This scenario requires an Azure virtual machine (VM), a Windows Print Server and a Windows workstation. The Azure VM will have UniPrint Bridge and Print Server pre-installed. The Windows print server will have UniPrint Print Server installed. The workstation will have UniPrint Application Server installed and will connect to the Azure VM.

Recommended System Requirements

Windows Print Server: UniPrint Print Server requires one of the following supported operating systems:

- Microsoft Windows 7
- Microsoft Windows 8/8.1

- Microsoft Windows 10
- Microsoft Windows Server 2008 or R2
- Microsoft Windows Server 2012 or R2
- Microsoft Windows Server 2016

Workstation/PC: UniPrint Application Server requires one of the following supported operating systems:

- Microsoft Windows 7 (**Note:** *Windows 7 Starter, Home Basic and Home Premium are NOT supported because these versions do not support Remote Desktop Services.*)
- Microsoft Windows 8/8.1
- Microsoft Windows 10

Recommended Installation Procedure



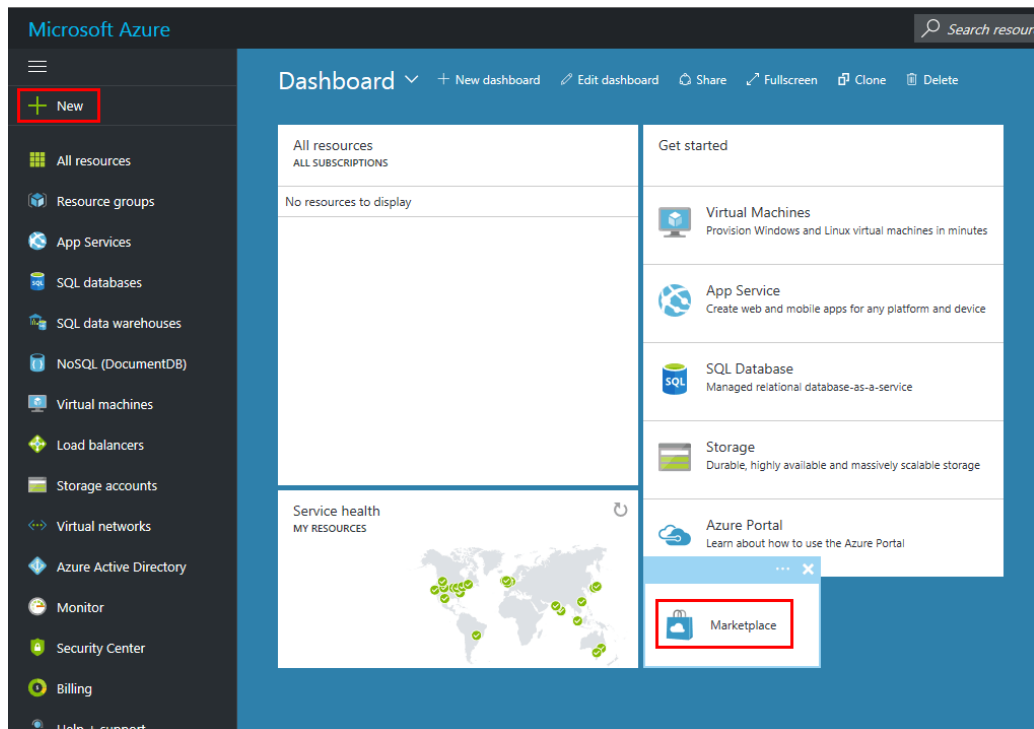
NOTE: The following instructions explain how to deploy UniPrint Infinity in Azure and on site. This installation scenario is designed and intended for testing purposes and does not reflect production best practices.

1. Through the Azure Marketplace, create and deploy a UniPrint Infinity virtual machine (VM). The virtual machine that is created contains two UniPrint components, UniPrint Bridge and UniPrint Print Server with most of the features of UniPrint Infinity such as SecurePrint.
2. Install UniPrint Print Server on a Windows print server and have it point to the public IP address of the UniPrint Azure VM.
3. Install UniPrint Application Server on a PC or workstation and have it point to the public IP address of the UniPrint Azure VM.
4. Install a test printer on the UniPrint Print Server and publish it to the UniPrint Azure VM.
5. Use PrintPAL to assign the printer as a local print queue to the workstation.

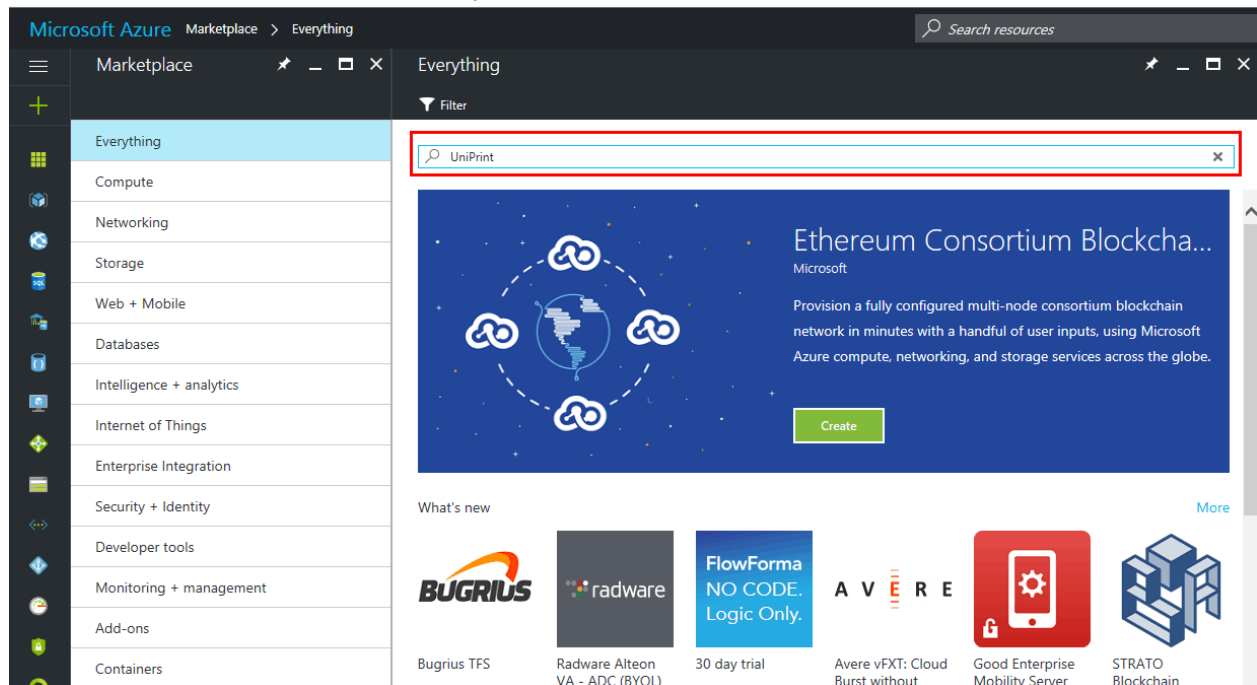
STEP 1: Create & Deploy a UniPrint Infinity VM in Azure

1. Log into the Microsoft Azure Portal, <https://portal.azure.com>.

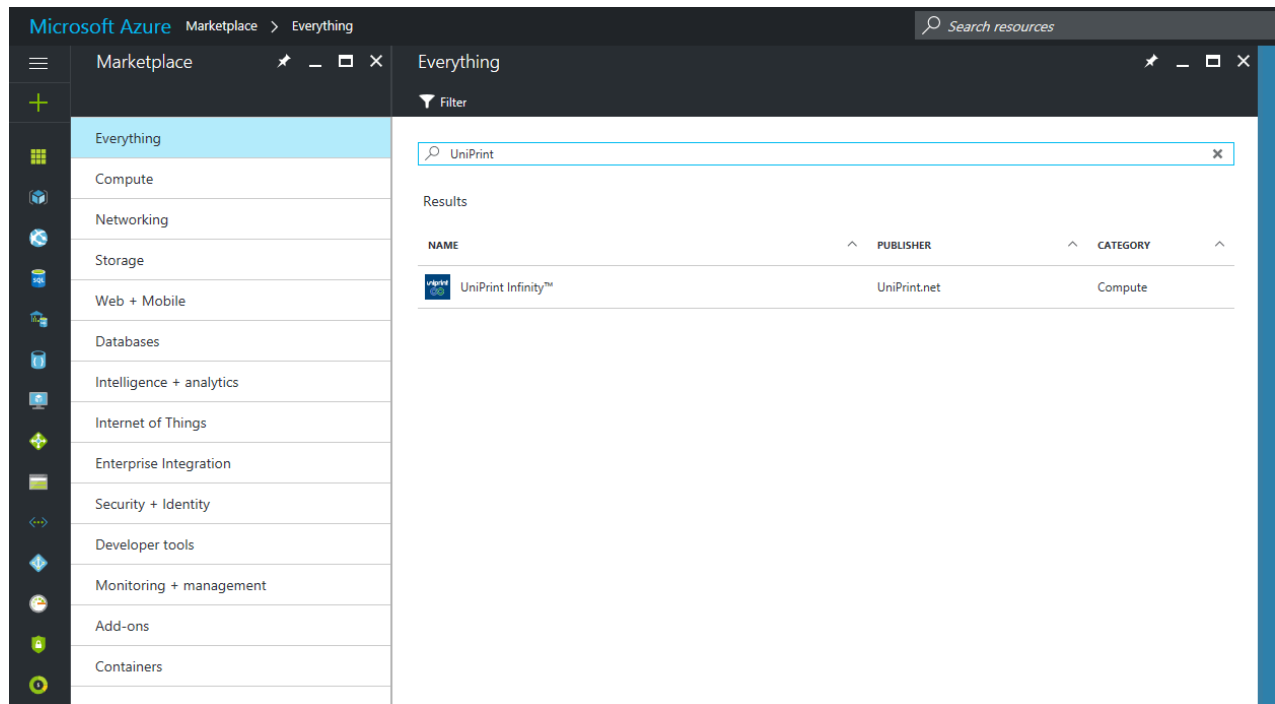
2. Depending on how the dashboard is laid out, click either **New** or **Marketplace**.



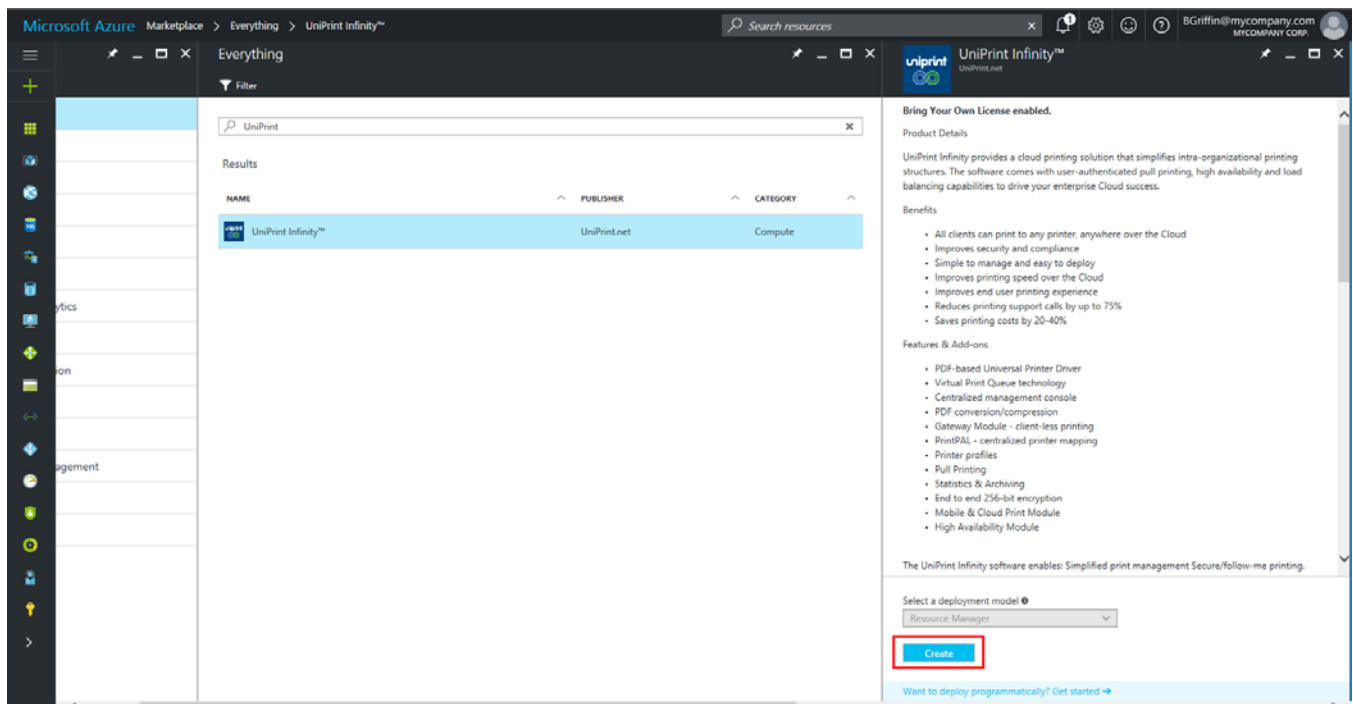
3. In the search box, enter **UniPrint** and then press **ENTER**.



4. Under **Results**, click **UniPrint Infinity**.



5. Click **Create**.



6. Under **Basics**, fill out the appropriate information and then click **OK**.

The screenshot shows the 'Create virtual machine' wizard in the Microsoft Azure portal, specifically the 'Basics' step. The left sidebar lists the steps: 1 Basics (selected), 2 Size, 3 Settings, 4 Summary, and 5 Buy. The main area contains the following configuration fields:

- Name:** UniPrintTest (with a green checkmark)
- VM disk type:** SSD (selected from a dropdown)
- User name:** Admin_BrianG
- Password:** (masked with dots)
- Confirm password:** (masked with dots)
- Subscription:** UniPrint Testing (selected from a dropdown)
- Resource group:** UniPrint_Azure_Test (selected from a dropdown, with a green checkmark)
- Location:** East US (selected from a dropdown)

An 'OK' button is located at the bottom right of the form.

- Name:** The Azure VM name cannot contain non-ASCII or special characters such as spaces or underscores.
 - VM Disk Type:** SSD or HDD. HDD is less expensive and is adequate for testing purposes.
 - Username:** Enter a user name.
 - Password:** The password must be 12 to 123 characters long and must contain one lowercase character, one uppercase character, one number and one special character.
 - Subscription:** Select a subscription to which to apply charges.
 - Resource Group:** Enter a name for the Azure Resource Group. The name can only contain alphanumeric characters, periods, underscores, hyphens and parentheses and cannot end in a period. Spaces are not permitted.
 - Location:** Select the closest region. Azure data centers are located throughout the world. Selecting the closest data center ensures faster and better performance.
7. Depending on the **VM Disk Type** and the **Location** chosen previously, different VM configurations will be available. Click to select the size and configuration of the virtual machine, for example **A3 Basic**, and then click **Select**. Chose a VM that closely matches the hardware recommendations for UniPrint Infinity 9.0.6, which are the following:
- 8 GB RAM
 - Quad core processor

- At least 100 GB of free disk space

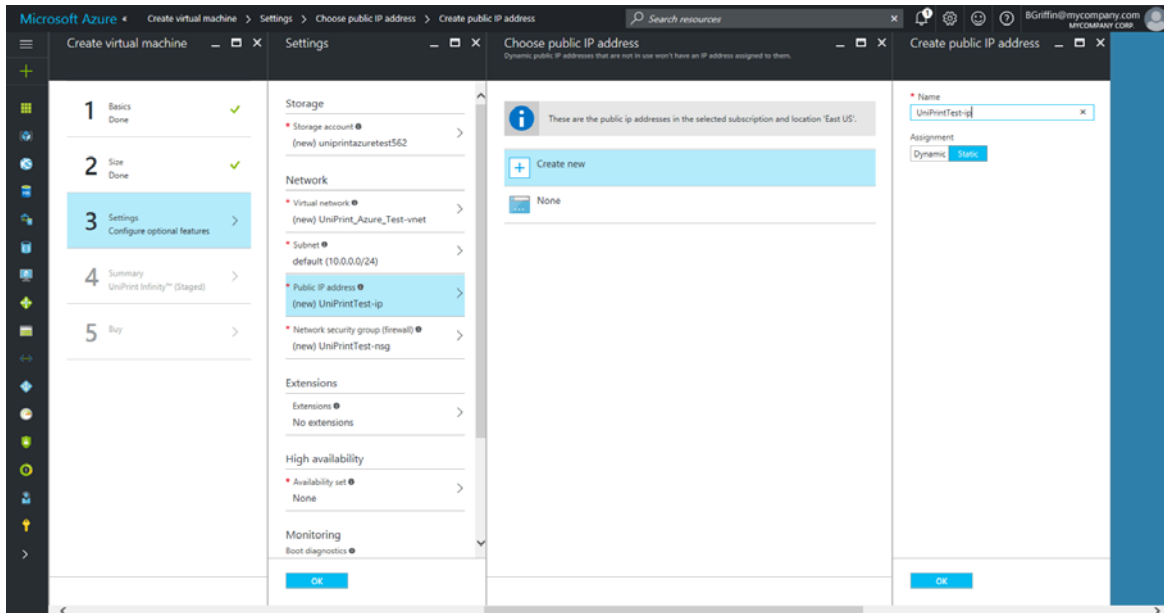
The left screenshot shows the 'Choose a size' page in the Microsoft Azure portal. It displays a grid of VM sizes categorized by D-series (Standard) and D-series (Standard). The right screenshot shows the same page with the 'A3 Basic' size highlighted. A red arrow points to the 'A3 Basic' size with the text: "A3 Basic closely matches the recommended system requirements for UniPrint Infinity."

8. Under **Settings**, configure the various settings based on preexisting resources or create new ones where required and then click **OK**.
 - a. **Storage account:** Either associate this new virtual machine with a preexisting storage account or create a new one. The storage created should match the VM disk type selected in the **Basics** screen. For testing purposes, **Standard** performance and **Locally-redundant storage (LRS)** replication is adequate. For more information, see [Azure Storage replication](#). Click **OK**.

The screenshot shows the 'Settings' page in the Microsoft Azure portal. The 'Storage' section is expanded, showing a new storage account 'uniprintazures62' being created. The 'Performance' is set to 'Standard' and 'Replication' is set to 'Locally-redundant storage (LRS)'. The 'Network' section is also expanded, showing a new virtual network 'Uniprint_Azure_Test-vnet' and a new subnet 'default (10.0.0.0/24)'.

- b. **Virtual network:** For testing purposes, use the default settings.
- c. **Subnet:** For testing purposes, use the default settings.

d. **Public IP address:** Change the **Assignment** to **Static** and then click **OK**.



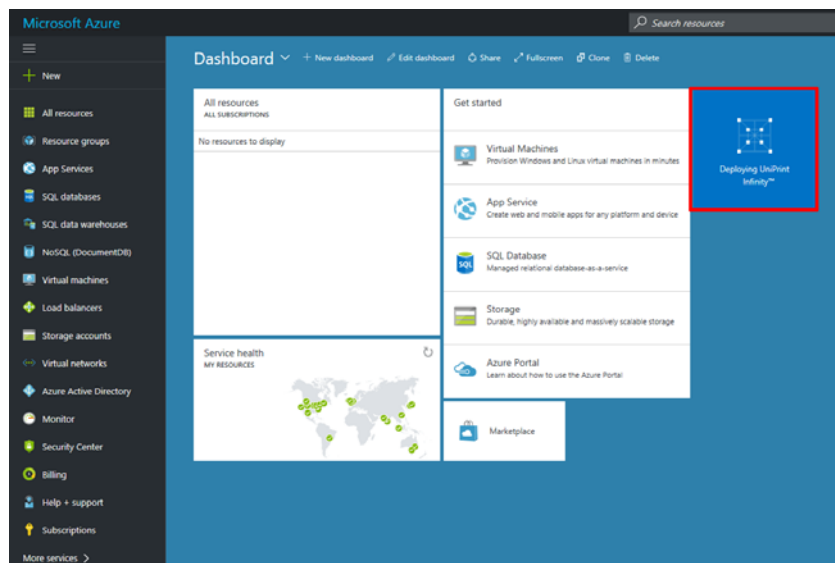
e. **Network security group (firewall):** For testing purposes, use the default settings.

f. For **Extensions**, **High Availability** and **Monitoring**, the default settings are adequate for testing.

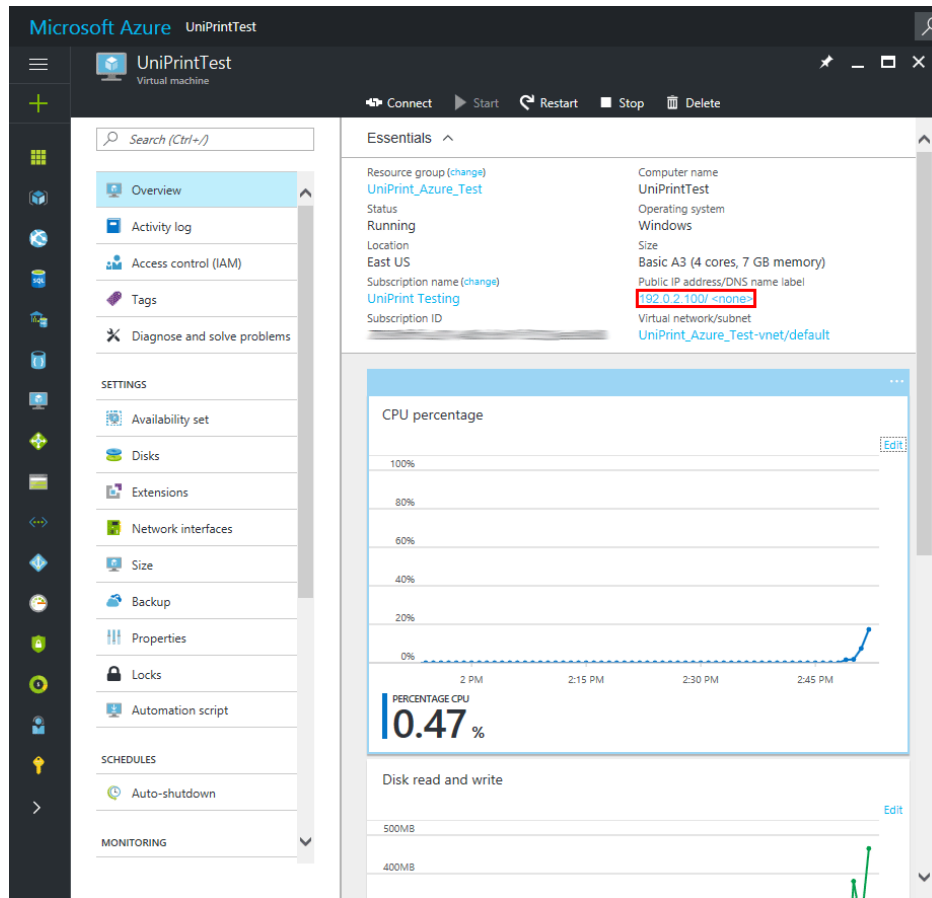
9. Review the summary and then click **OK**.

10. Review the **Offer details** and the **Terms of use** and then click **Purchase**.

11. The new tile will appear on the Dashboard indicating that UniPrint Infinity is being deployed. This could take 15 to 30 minutes depending on the machine type and size chosen.



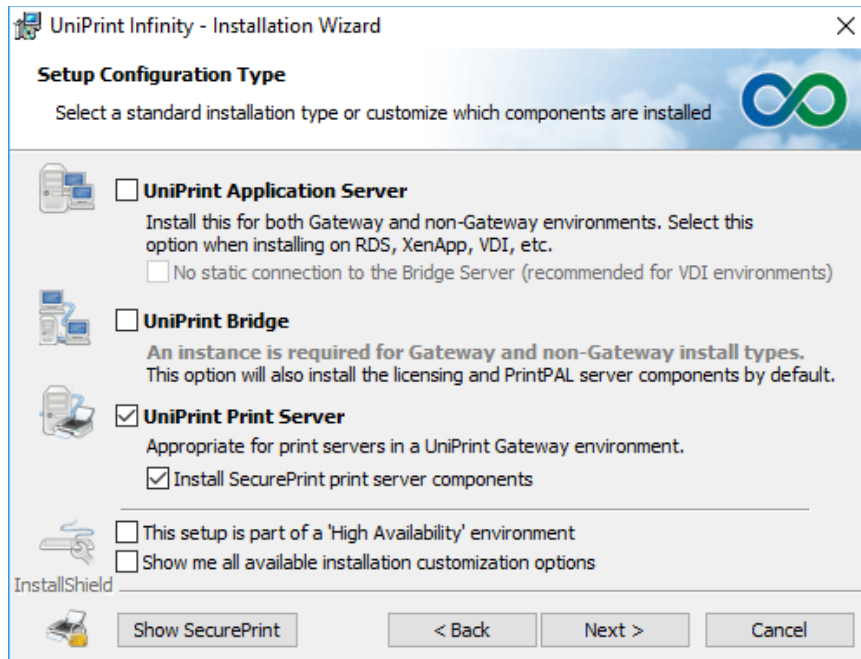
12. When deployment is complete, information and metrics for the UniPrint Infinity VM will appear on the Dashboard. Take note of the public IP address. This information is required when installing the UniPrint Print Server and UniPrint Application Server components.



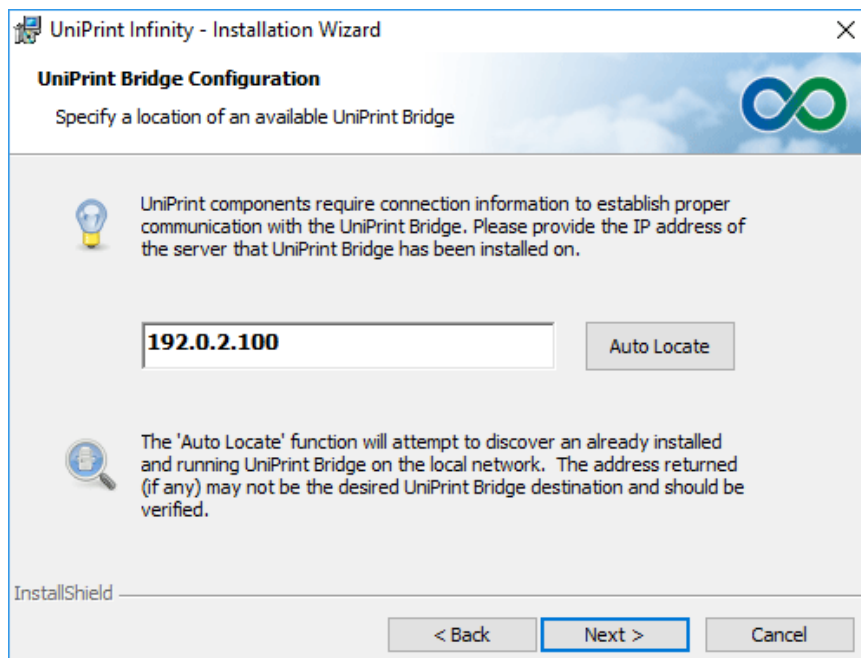
STEP 2: Install UniPrint Print Server

1. On a Windows print server, run the installation program **UniPrint91_*.exe** as an administrator.
2. In the **UniPrint Infinity Installation** dialog box, click **Next**.
3. In the **License Agreement** dialog box, click **I accept the terms in the license agreement** and then click **Next**.
4. In the **Destination Folder** dialog box, click **Next** to accept the default location for the UniPrint program files. Click **Change** to select a different location.

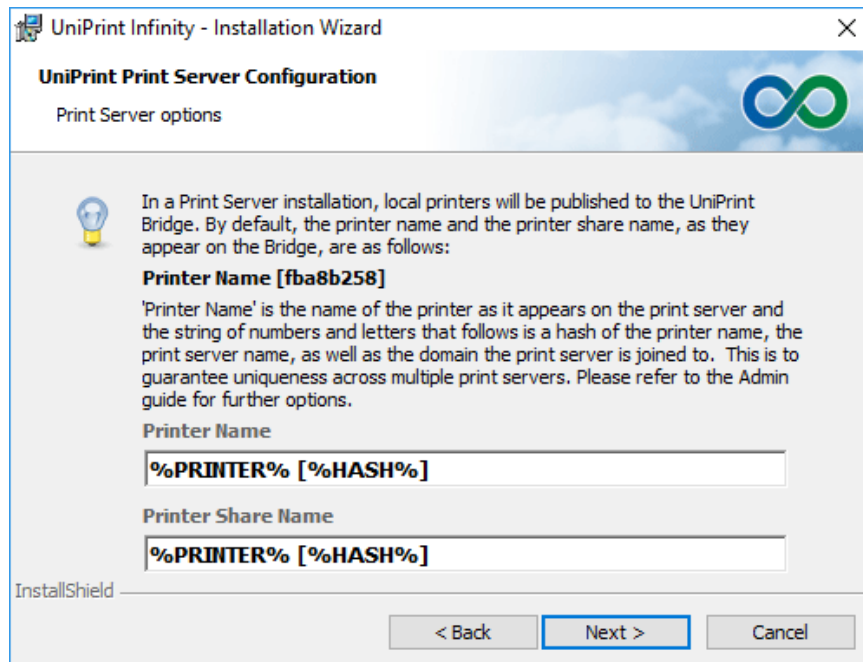
5. In the **Setup Configuration Type** dialog box, select **UniPrint Print Server** and then click **Next**. For SecurePrint, also select **Install SecurePrint print server components**.



6. In the **UniPrint Bridge Configuration** dialog box, enter the public **IP Address** of the UniPrint Azure VM and then click **Next**.



7. In the **UniPrint Print Server Configuration** dialog box, click **Next**.

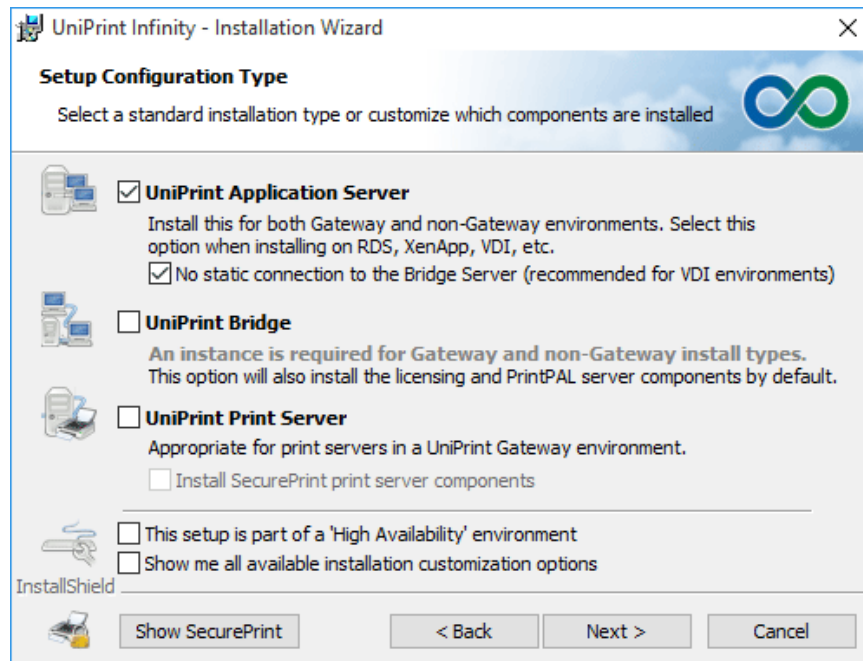


8. In the **Ready to Install the Program** dialog box, click **Install**. The UniPrint installer will copy files to the destination folder.
9. Click **Finish** to complete the installation.

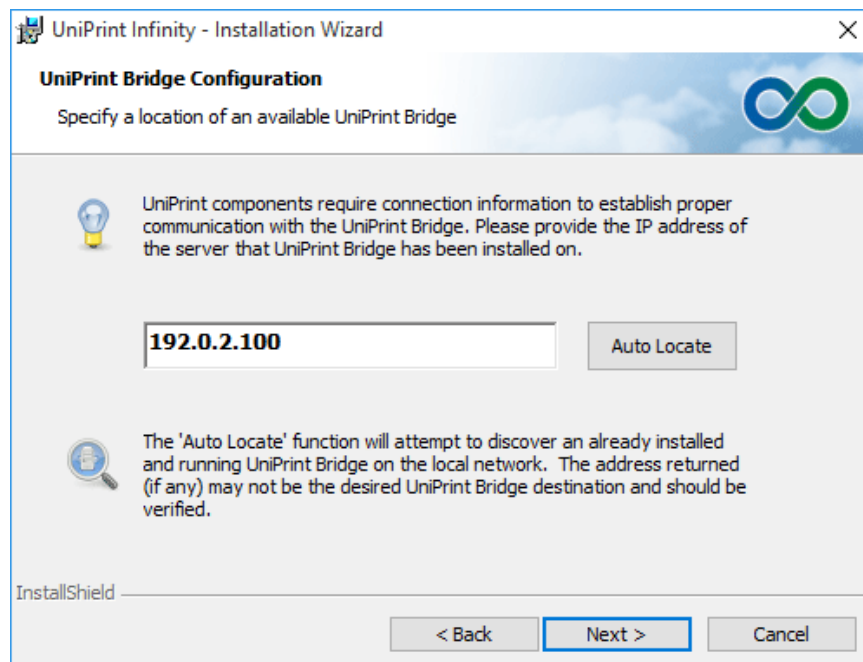
STEP 3: Install UniPrint Application Server On A PC/Workstation

1. On a workstation or PC, run the installation program **UniPrint91_*.exe** as an administrator.
2. In the **UniPrint Infinity Installation** dialog box, click **Next**.
3. In the **License Agreement** dialog box, click **I accept the terms in the license agreement** and then click **Next**.
4. In the **Destination Folder** dialog box, click **Next** to accept the default location for the UniPrint program files. Click **Change** to select a different location.

5. In the **Setup Configuration Type** dialog box, select **UniPrint Application Server** and **No static connection to the Bridge Server (recommended for VDI environments)**. Click **Next**.



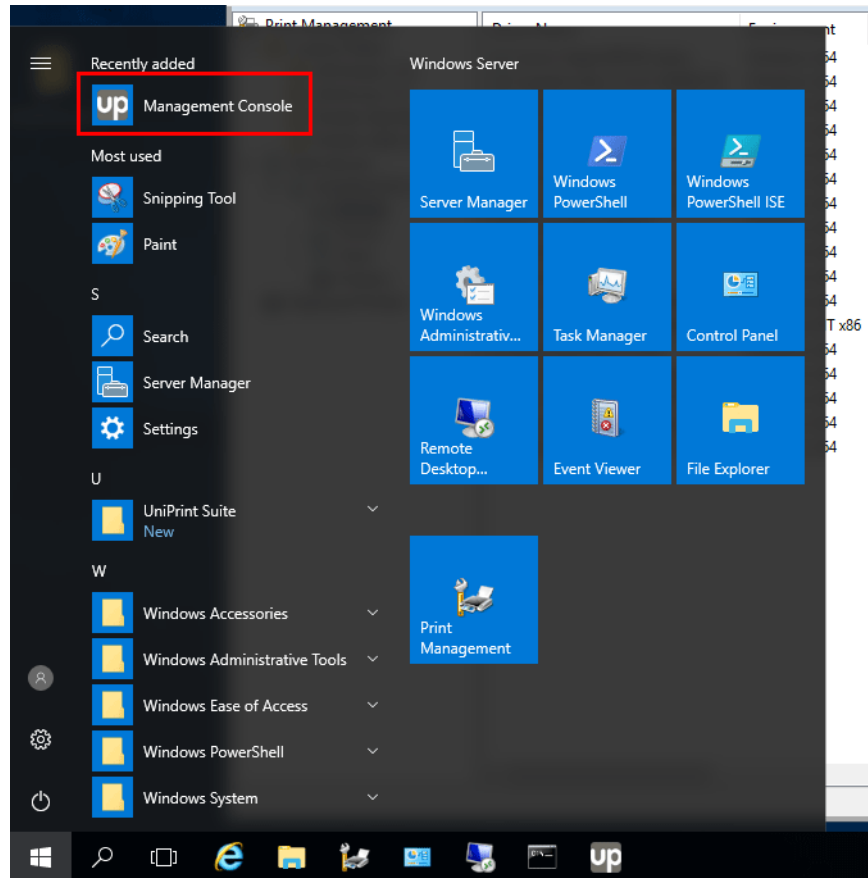
6. In the **UniPrint Bridge Configuration** dialog box, enter the public **IP Address** of the UniPrint Azure VM and then click **Next**.



7. In the **Ready to Install the Program** dialog box, click **Install**. The UniPrint installer will copy files to the destination folder.
8. Click **Finish** to complete the installation.

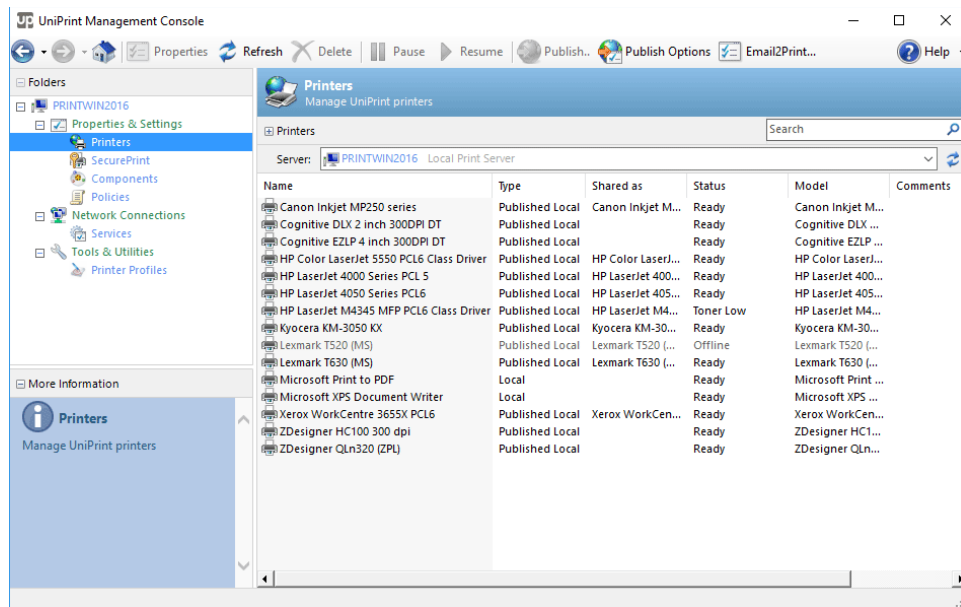
STEP 4: Install a Test Printer On The UniPrint Print Server

1. On the UniPrint Print Server, open **Print Management**.
2. Under the **Print Management** tree, expand **Print Servers** and then expand the local print server.
3. To add a new printer, right-click **Printers** and then click **Add Printer**. Follow the **Add Printer** wizard to install a new network printer.
4. Click **Start** and then under **Recently Added**, click **Management Console**.

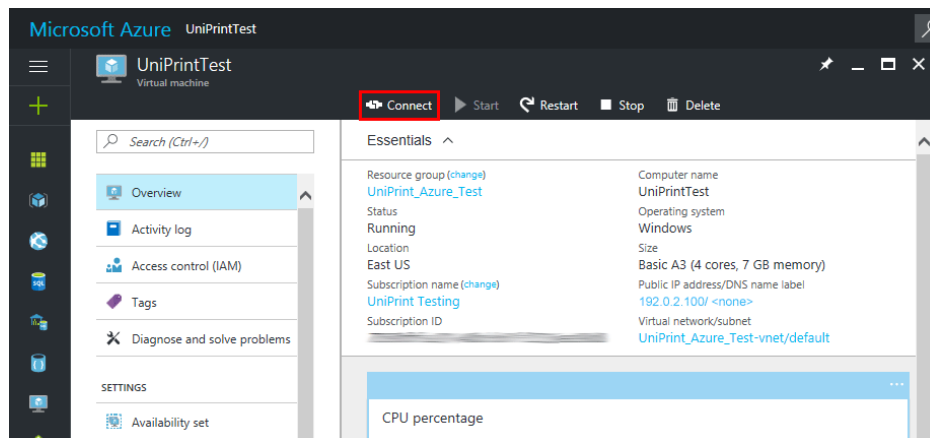


5. In the **UniPrint Management Console**, under **Properties & Settings**, click **Printers**.

6. Ensure that the test printer appears as type **Published Local**.



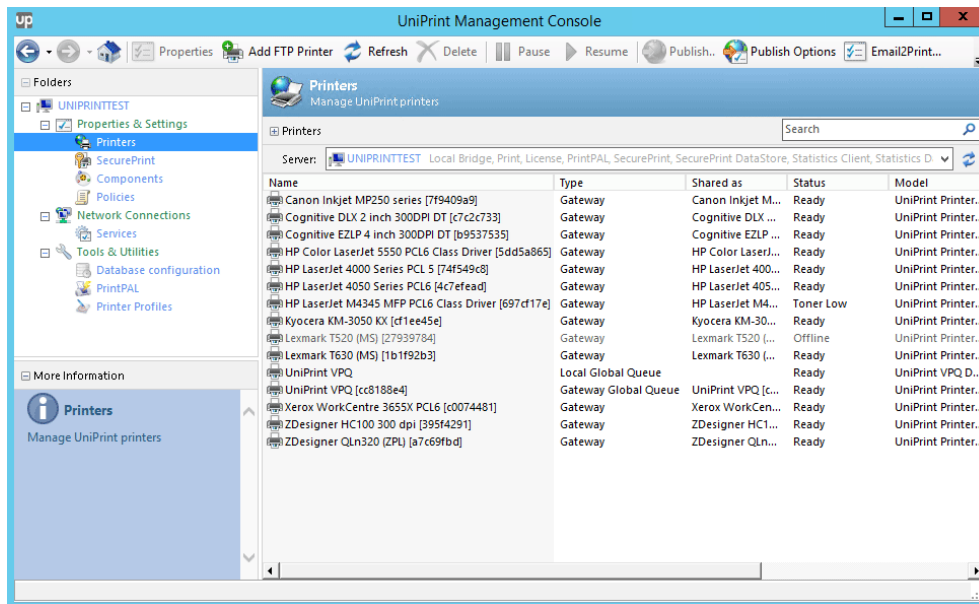
7. From the workstation, start a remote desktop connection to the UniPrint Azure VM. Use the **public IP address** and the **username** and **password** entered when creating the UniPrint Azure VM to connect. Alternatively, through the Azure Portal, click **Connect** to start an RDP session to the UniPrint Azure VM.



8. On the desktop, double-click **UniPrint Management Console**.

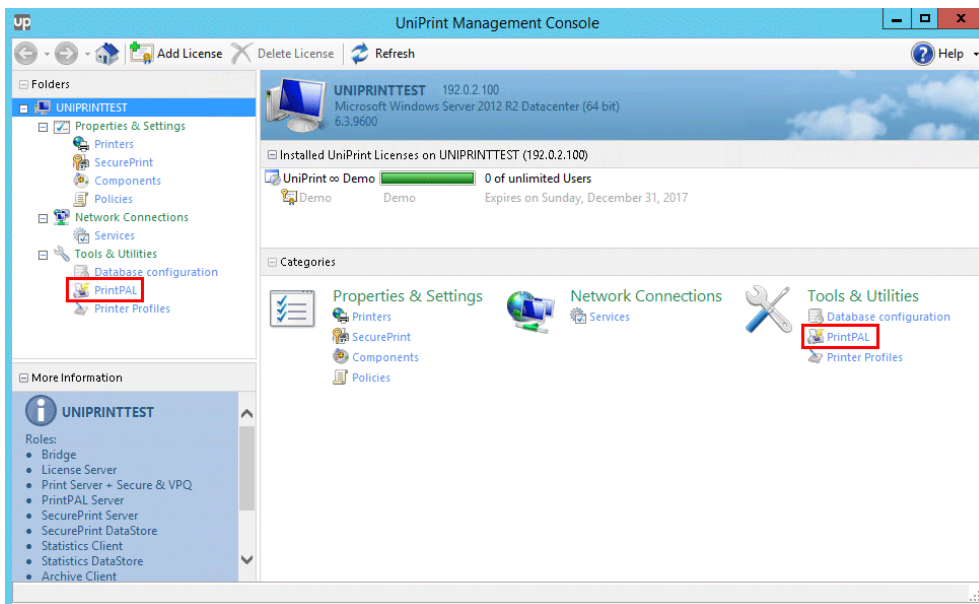
9. Under **Properties & Settings**, click **Printers**.

10. The new printer will appear in the printer list of type **Gateway**.

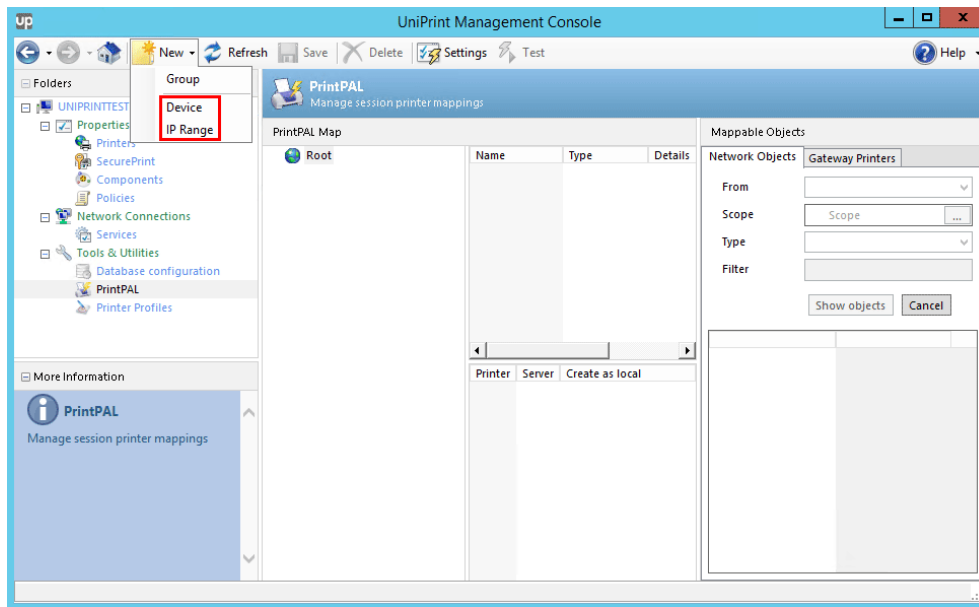


STEP 5: Use PrintPAL to Add the Test Printer In A User Session

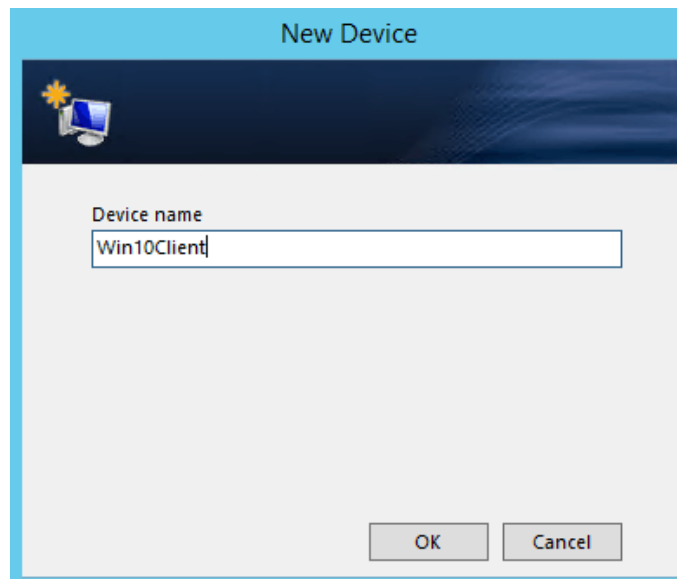
1. On the UniPrint Azure VM, open the **UniPrint Management Console**.
2. Under **Tools & Utilities**, click **PrintPAL**.



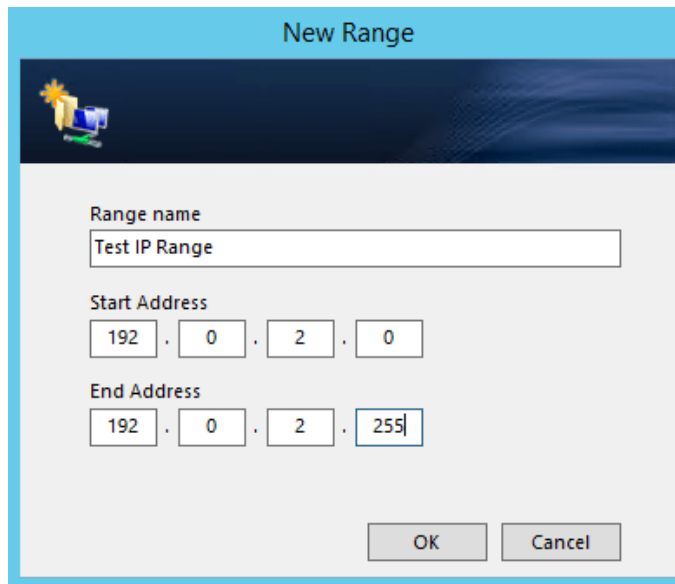
3. Click **New** and then click either **Device** or **IP Range**.



a. For a device that is not part of a domain, enter the host name of the device and then click **OK**.



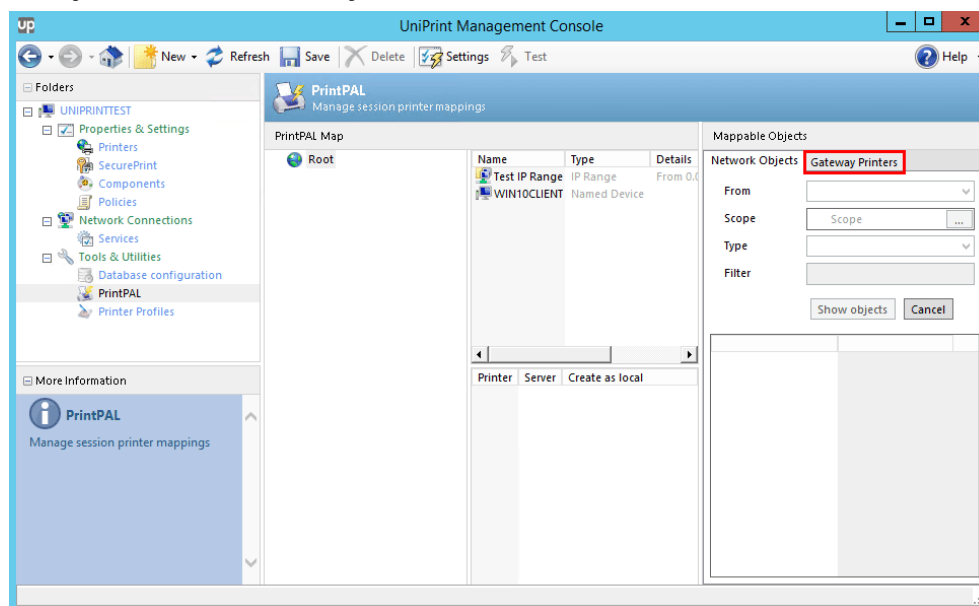
- b. For an IP range, enter a name for the IP range and the starting and ending IP addresses. Click **OK**.



The 'New Range' dialog box is shown with a blue header. It contains the following fields:

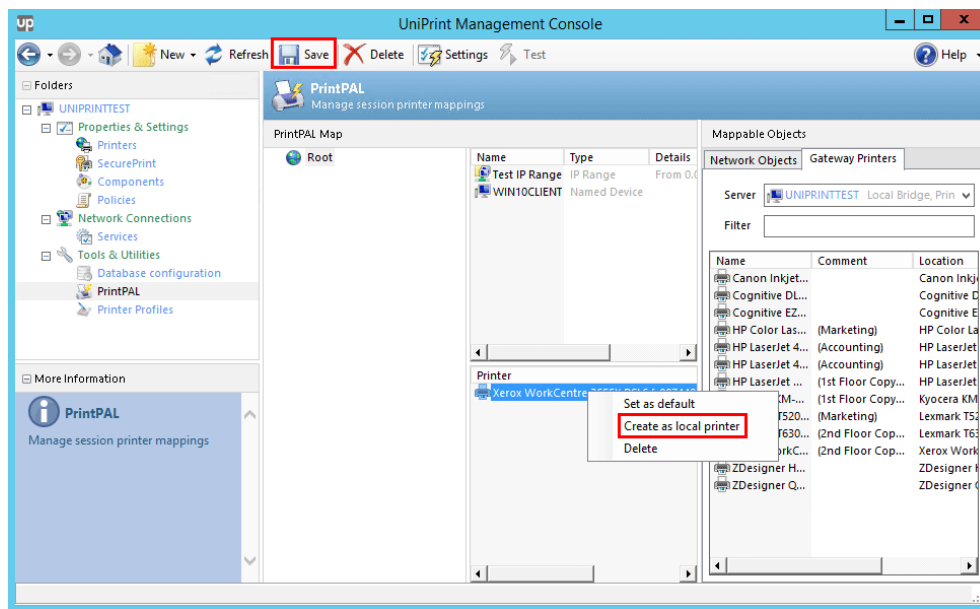
- Range name:** A text box containing 'Test IP Range'.
- Start Address:** Four input boxes containing '192', '0', '2', and '0' respectively, separated by dots.
- End Address:** Four input boxes containing '192', '0', '2', and '255' respectively, separated by dots.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

4. Under **Mappable Objects**, click the **Gateway Printers** tab.

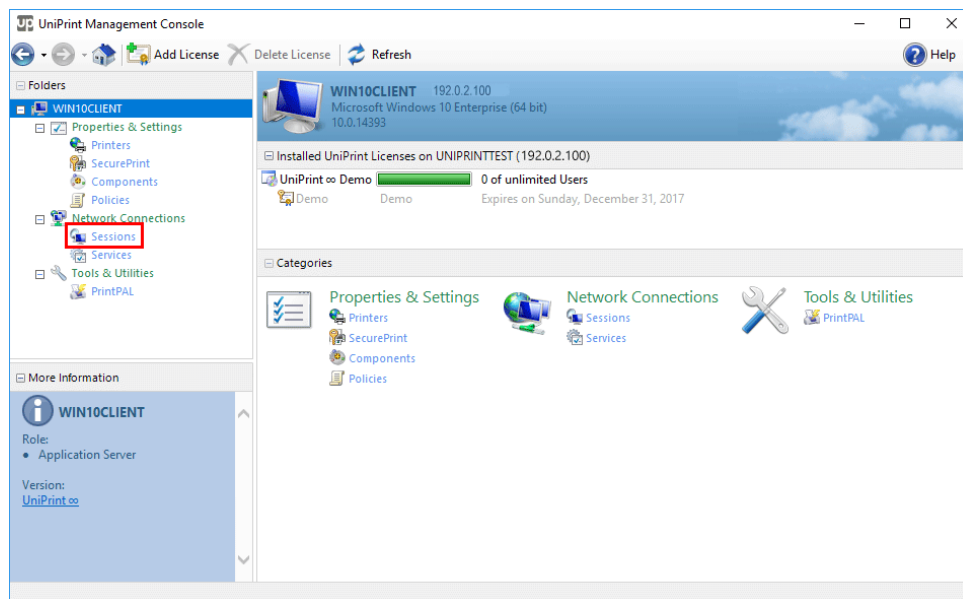


5. Click to select the test printer and then press **ENTER**.

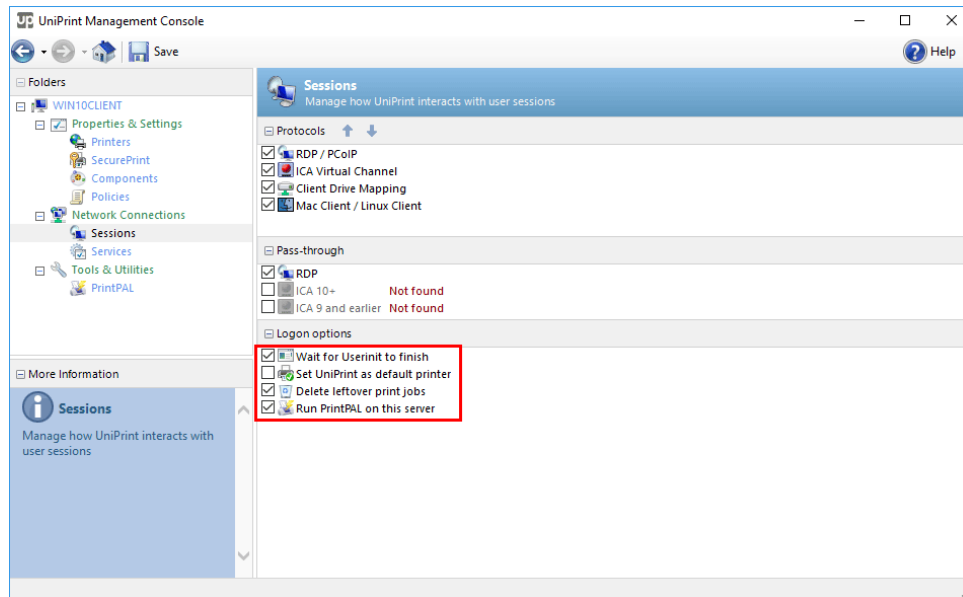
6. Right-click the test printer and then select **Create as local printer**. Click **Save**.



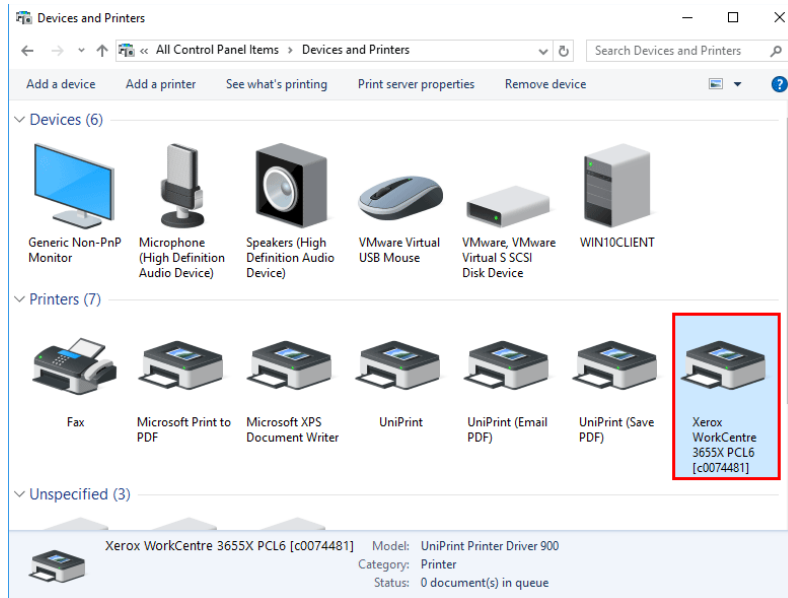
7. Logout of the RDP session.
8. On the workstation, open the **UniPrint Management Console**.
9. Under **Network Connections**, click **Sessions**.



- Under **Login options**, clear **Set UniPrint as default printer**. Select **Delete leftover print jobs** and **Run PrintPAL on this server**. Click **Save**.



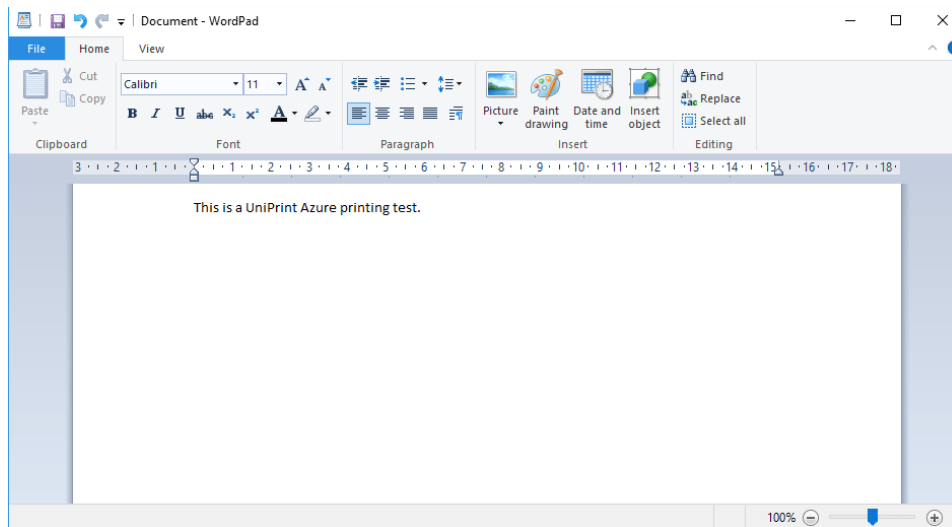
- The Gateway printer is now added to the session and is available for printing.



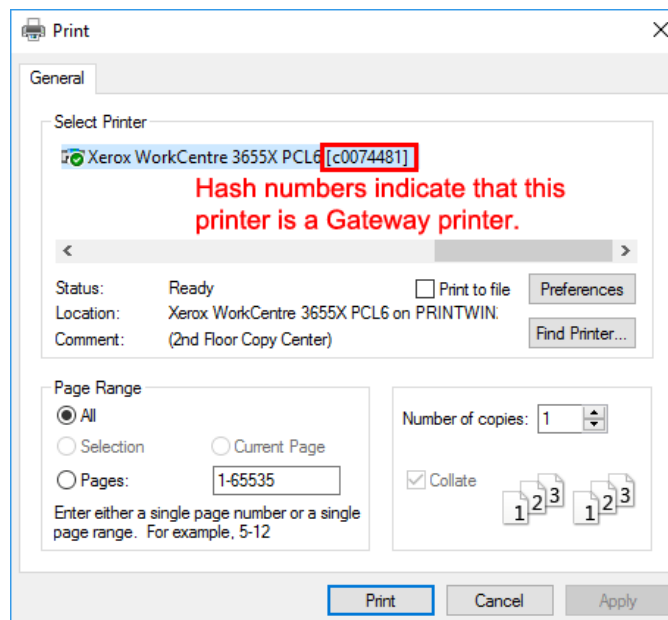
Printing With The UniPrint Azure VM

- From the workstation or PC, open an application from which to print, for example, WordPad.

2. Print from the application. For example in WordPad, click the **File** tab and then click **Print**.



3. Select the test **Gateway** printer (one with the hash numbers) and then click **Print**.



4. The document will be printed with a watermark across each page. To remove this watermark, contact sales@uniprint.net to request a demo license.

