

# **Quick Start Guide**

For Microsoft Azure Deployments with SecurePrint

Released: May 2017

Version: 9.1

Revised: September 8, 2017 3:46 pm

## **Disclaimer and Copyright Notice**

UniPrint.net Corp. makes no representations or warranties with respect to the contents or use of this publication. Uni-Print.net Corp. especially disclaims any expressed or implied warranties, merchantability or fitness for any particular purpose. UniPrint.net Corp. reserves the right to make any changes in specifications and other information contained in this publication without prior notice and without obligation to notify any person or entity of such revisions or changes.

© Copyright 1999 - 2017 UniPrint.net Corp. All rights reserved.

Information in this document is subject to change without notice. Companies, names and data used in examples herein are fictitious unless otherwise noted. Other than printing one copy for personal use, no part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purposes, without the expressed written consent of:

UniPrint.net Corp.
1420-3280 Bloor St. W., Centre Tower
Toronto, Ontario
Canada M8X 2X3
(416) 503-9800
Toll Free: (866) 488-3188 (North America only)

www.uniprint.net

## **Intellectual Property Acknowledgements**

UniPrint and UniPrint Infinity are registered trademarks of UniPrint.net Corp. Registration numbers TMA562,455 and TMA857,027 in Canada and filing number 85-663,579 in the United States. UniPrint.net Corp. products are also registered as United States Patent Numbers 7,064,856, 7,265,867 and 7,602,522.

Microsoft, Windows, Windows 2008/2012/2016, Windows 7/8/10, Microsoft Access, Microsoft Word, Remote Desktop Protocol (RDP), ASP.NET, Azure and Active Directory are either registered trademarks or trademarks of Microsoft Corporation.

Citrix, MetaFrame, Presentation Server, XenApp and ICA (Independent Computing Architecture) are registered trademarks or trademarks of Citrix Systems.

Adobe, Acrobat, Reader are registered trademarks of Adobe Systems Inc.

All other trademarks and registered trademarks are the property of their owners.

## Contents

Introduction	1
Deployment Scenario Recommended System Requirements Recommended Installation Procedure	1
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: Install and Activate the SecurePrint Emulator	14
STEP 6: Add Printers to the SecurePrint Emulator/vPad	17
STEP 7: Use PrintPAL to Add the Test Printer and UniPrint VPQ In A User Session	18
Printing & Releasing a Print Job With The UniPrint Azure VM	23

## Introduction

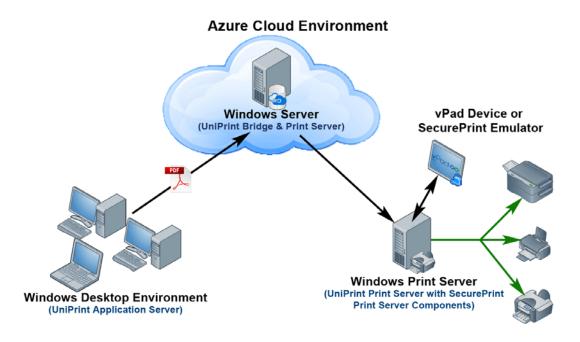
This step-by-step guide is intended for those who want to set up UniPrint Infinity with minimal configuration using Microsoft Azure. UniPrint.net has provided a virtual machine in Azure that already has the UniPrint Bridge, UniPrint Print Server and SecurePrint components already installed. Only the necessary steps required to print to the UniPrint VPQ and release a SecurePrint print job will be covered. For additional assistance on customizing UniPrint Infinity or setting up many of UniPrint Infinity's features such as Printer Delegation, Printer Profiles, Archiving, and Statistics Monitoring refer to the UniPrint Infinity Administrator's Guide.



**NOTE**: To access advanced printer preferences, for example, stapling and hole punching, use Printer Profiles. For more information on setting up and using Printer Profiles, refer to the <a href="UniPrint Infinity">UniPrint Infinity</a> Administrator's Guide.

This quick start guide is specific to environments whereby desktop PCs print through the Azure cloud environment.

## **Deployment Scenario**



This scenario requires an Azure virtual machine (VM), a Windows Print Server, the UniPrint vPad or SecurePrint emulator and a Windows workstation. The Azure VM will have UniPrint Bridge and Print Server pre-installed along with all of the necessary SecurePrint components. The Windows print server will have UniPrint Print Server and SecurePrint Print Server components 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**



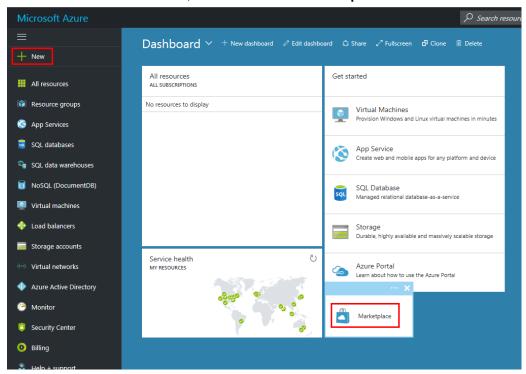
**NOTE**: The following instructions explain how to deploy UniPrint Infinity in Azure and on site. This installation scenario is designed and intended for testing purposes and does not reflect production best practices.

- 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 with SecurePrint Print Server components 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. Install the SecurePrint emulator on the workstation and then activate it on the UniPrint Azure VM. If you already have a vPad device, then you don't need to install the SecurePrint emulator, since the vPad comes with preinstalled software. However, you will still need to activate the vPad on the UniPrint Azure VM.
- 6. Add the test printer to the vPad/SecurePrint Emulator through the Management Console on the UniPrint Azure VM.
- 7. Use PrintPAL to assign the test printer and the UniPrint VPQ as local print queues to the workstation.

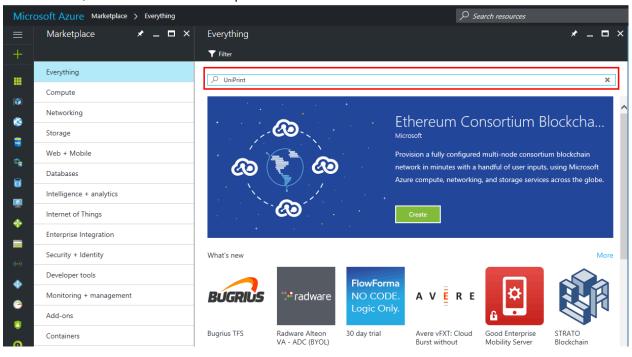
## STEP 1: Create & Deploy a UniPrint Infinity VM in Azure

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

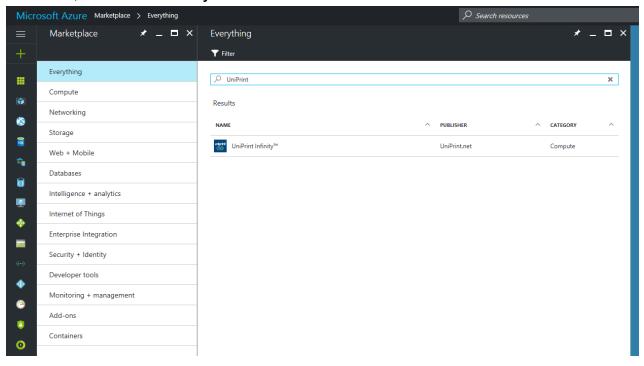
2. Depending on how the dashboard is laid out, click either New or Marketplace.



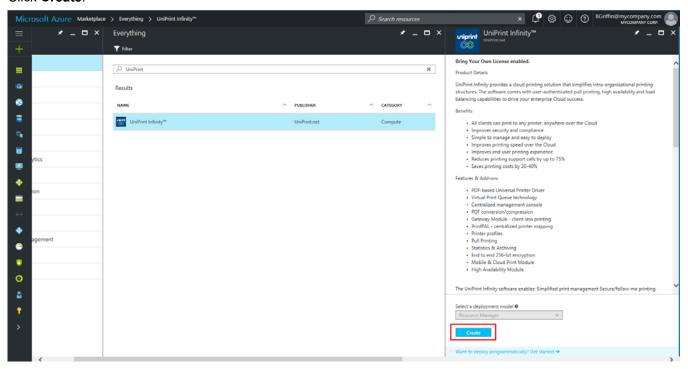
3. In the search box, enter **UniPrint** and then press **ENTER**.

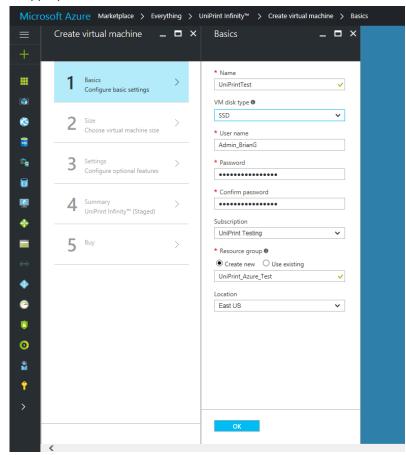


#### 4. Under Results, click UniPrint Infinity.



#### 5. Click Create.

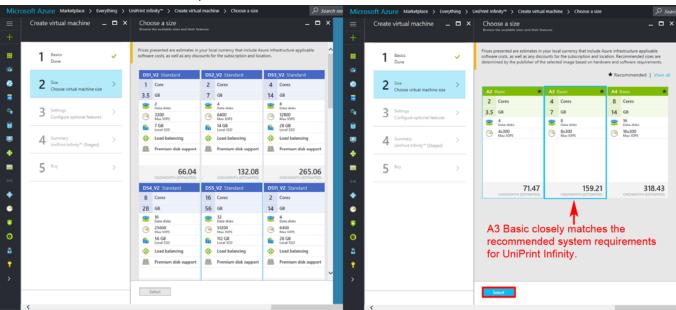




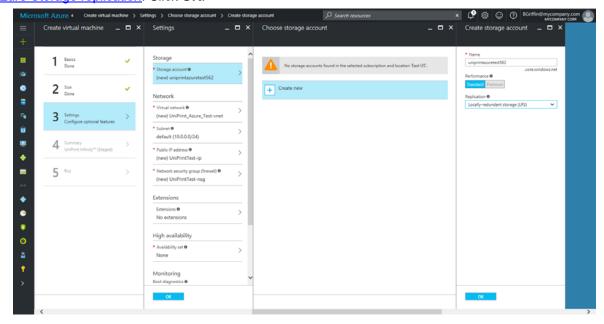
6. Under Basics, fill out the appropriate information and then click OK.

- a. Name: The Azure VM name cannot contain non-ASCII or special characters such as spaces or underscores.
- b. VM Disk Type: SSD or HDD. HDD is less expensive and is adequate for testing purposes.
- c. Username: Enter a user name.
- **d. 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.
- e. Subscription: Select a subscription to which to apply charges.
- **f. 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.
- **g. 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, which are the following:
  - 8 GB RAM
  - Quad core processor

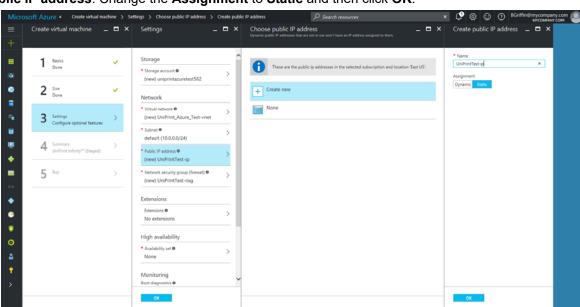
· At least 100 GB of free disk space



- **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.

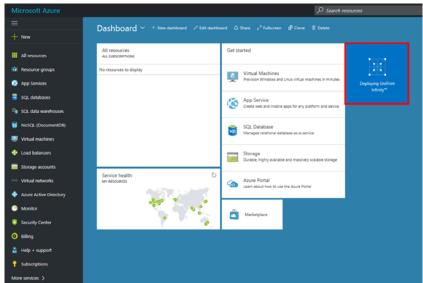


- b. Virtual network: For testing purposes, use the default settings.
- **c. Subnet**: For testing purposes, use the default settings.

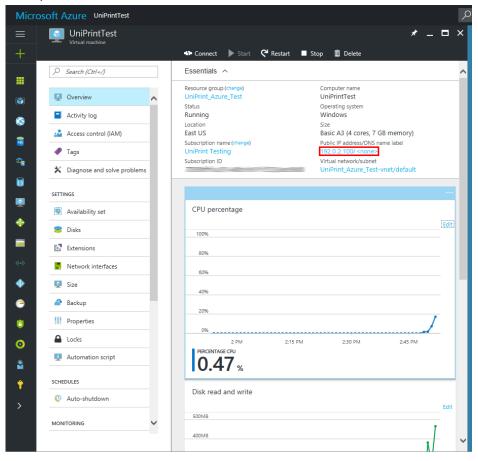


d. Public IP address: Change the Assignment to Static and then click OK.

- 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.



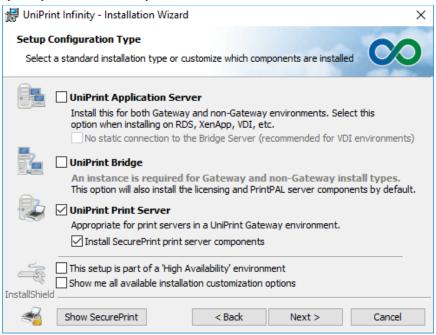
**12.** When deployment is complete, information and metrics for the UniPrint Infinity VM will appear on the Dashboard. Take note of the public IP address. This information is required when installing the UniPrint Print Server and UniPrint Application Server components.



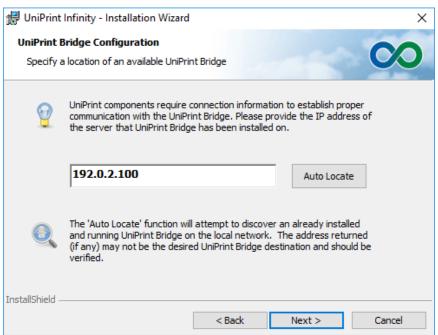
## STEP 2: Install UniPrint Print Server

- 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.

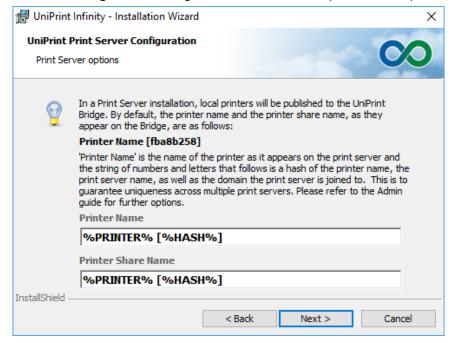
5. In the Setup Configuration Type dialog box, select UniPrint Print Server and then click Next. For SecurePrint, also select Install Secureprint print server components.



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



In the UniPrint Print Server Configuration dialog box, click Next to accept the default printer naming convention.



- 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.

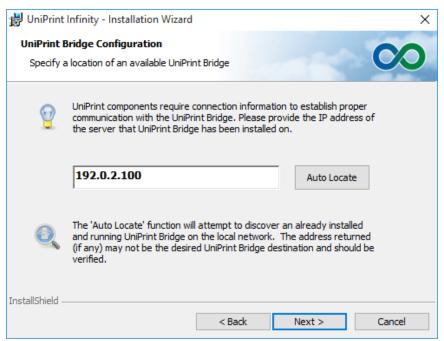
## STEP 3: Install UniPrint Application Server On A PC/Workstation

- 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.
- 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.



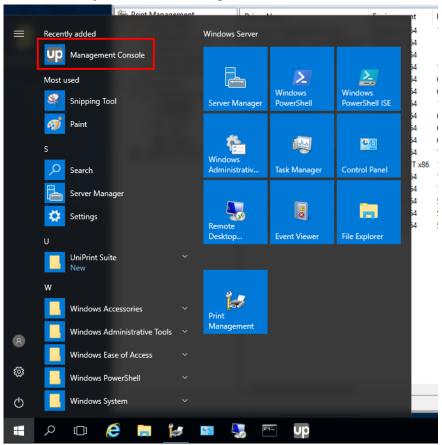
 In the UniPrint Bridge Configuration dialog box, enter the public IP Address of the UniPrint Azure VM and then click Next.



- 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.

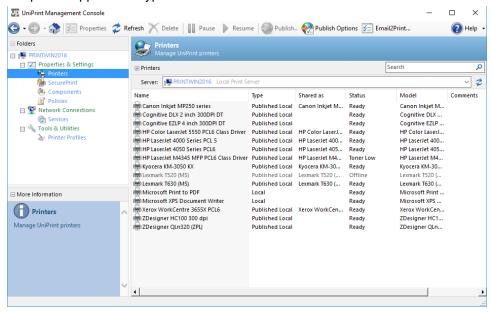
## STEP 4: Install a Test Printer On The UniPrint Print Server

- 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.

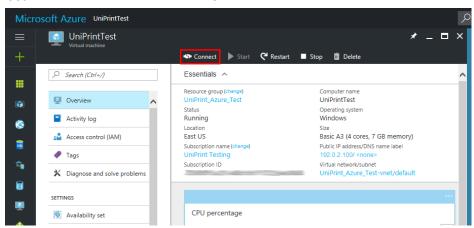


5. In the UniPrint Management Console, under Properties & Settings, click Printers.

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

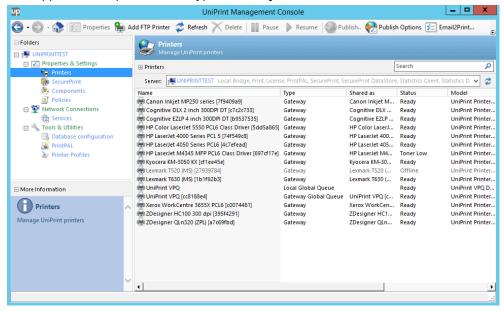


7. From the workstation, start a remote desktop connection to the UniPrint Azure VM. Use the **public IP address** and the **username** and **password** entered when creating the UniPrint Azure VM to connect. Alternatively, through the Azure Portal, click **Connect** to start an RDP session to the UniPrint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



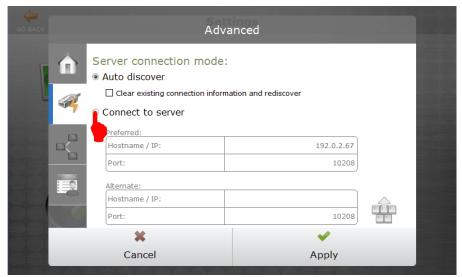
## STEP 5: Install and Activate the SecurePrint Emulator

The SecurePrint Emulator can be run from any Windows machine. It does not have to be server-class, a client machine is acceptable. However, the machine must be connected to your network and visible to the UniPrint Print Server.

- 1. On a workstation, run the self-extracting executable file, SecurePrint Emulator.exe as an administrator.
- 2. Ensure that the vPad or emulator is connected to the correct UniPrint Print Server.
  - a. If the Print Server IP address is pointing to the wrong UniPrint Print Server, tap Customize or Settings.



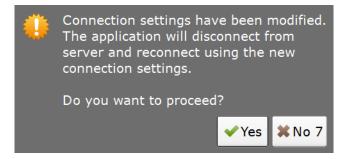
b. Tap Connect to Server.



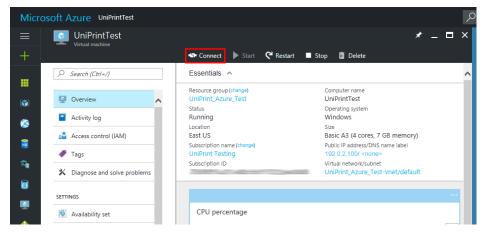
c. Change the IP address and port number to that of the desired UniPrint Print Server and then tap Apply.



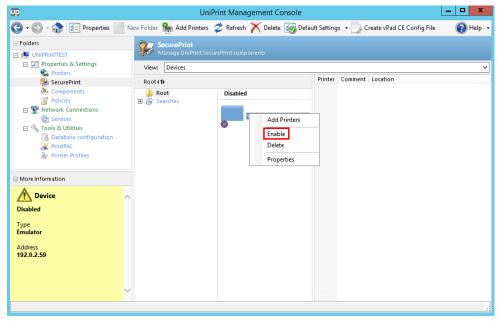
d. Tap Yes.



3. 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.



- 4. On the desktop, double-click UniPrint Management Console.
- 5. Under Properties & Settings, click SecurePrint.
- 6. Right-click the vPad or emulator device and then select Enable.

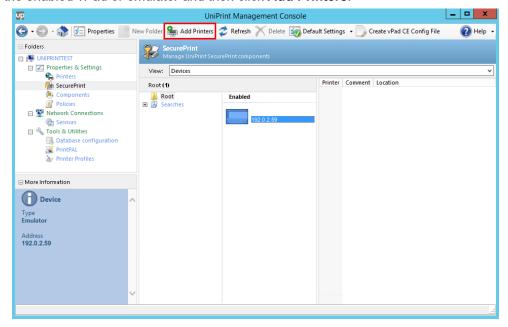


7. Once enabled, return to the vPad or emulator and the user name entry screen should appear.

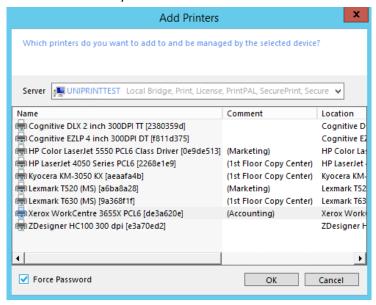


## STEP 6: Add Printers to the SecurePrint Emulator/vPad

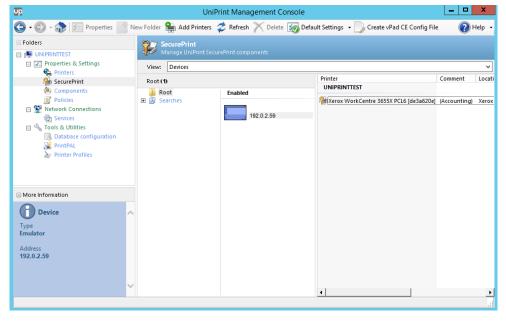
- 1. On the UniPrint Azure VM, open the UniPrint Management Console.
- 2. Under Properties & Settings, click SecurePrint.
- 3. Click to select the enabled vPad or emulator and then click Add Printers.



**4.** Click to select a printer and then select **Force Password** to make users enter a password in order to release their print job(s). **Note**: To select multiple printers, click to select a printer and then hold down the **SHIFT** key for consecutive printers or the **CTRL** key for non-consecutive printers. Click **OK**.



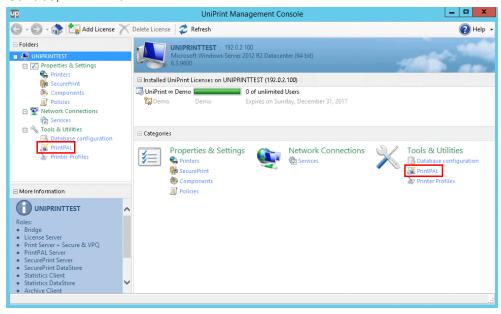
**5.** The selected test printer is now added to the SecurePrint Emulator/vPad and users will be able to release their print jobs to print at this printer.



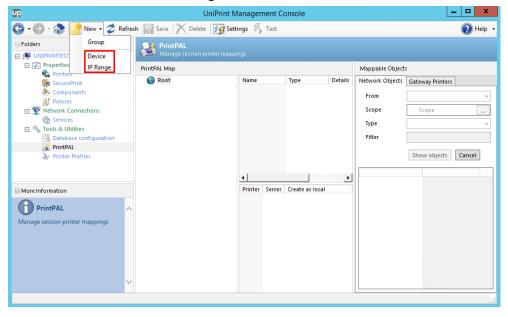
# STEP 7: Use PrintPAL to Add the Test Printer and UniPrint VPQ In A User Session

1. On the UniPrint Azure VM, open the UniPrint Management Console.

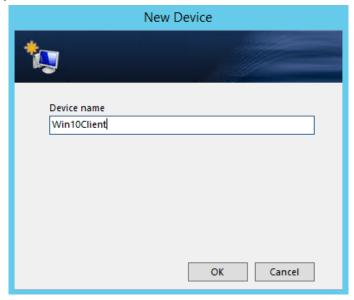
2. Under Tools & Utilities, click PrintPAL.



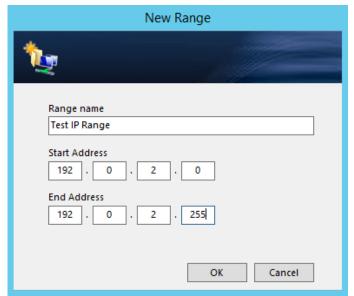
3. Click New and then click either Device or IP Range.



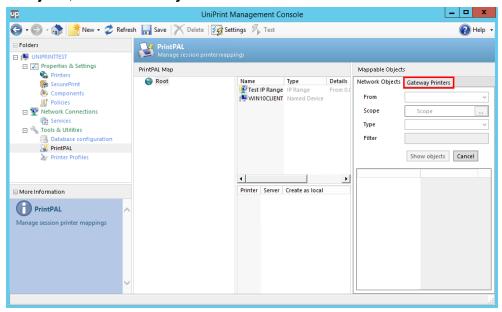
a. For a device that is not part of a domain, enter the host name of the device and then click **OK**.



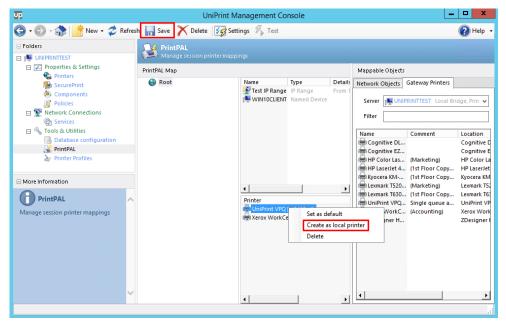
**b.** For an IP range, enter a name for the IP range and the starting and ending IP addresses. Click **OK**.



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

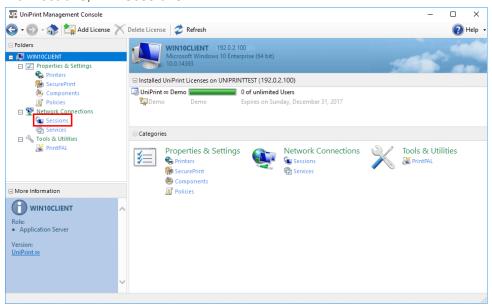


- 5. Click to select the UniPrint VPQ and then press ENTER. Repeat this step to add a test printer.
- **6.** Right-click the UniPrint VPQ and then select **Create as local printer**. Do the same for the test printer and then click **Save**.

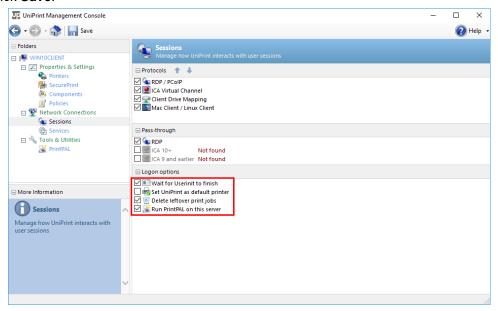


- 7. Logout of the RDP session.
- 8. On the workstation, open the UniPrint Management Console.

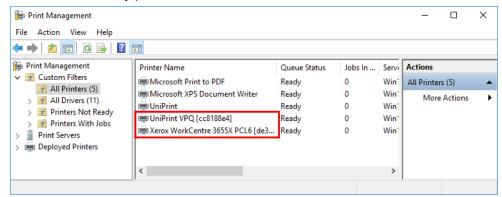
9. Under Network Connections, click Sessions.



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

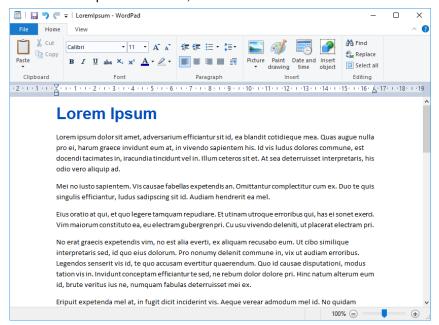


11. The UniPrint VPQ and test Gateway printers are now added to the workstation and are now available for printing.

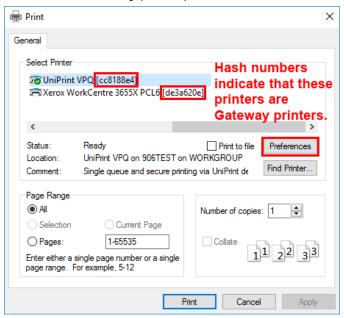


## Printing & Releasing a Print Job With The UniPrint Azure VM

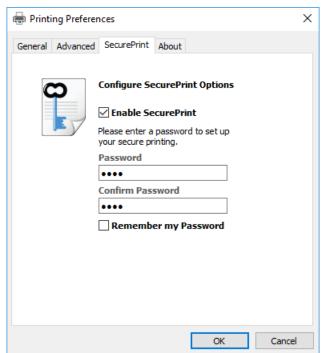
- 1. From the workstation or PC, open an application from which to print, for example, WordPad.
- 2. Print from the application. For example in WordPad, click the File tab and then click Print.



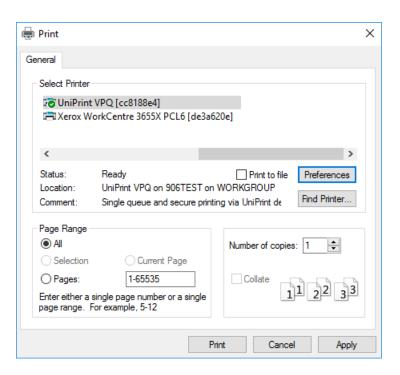
3. Select either the UniPrint VPQ or the test **Gateway** printer (one with the hash numbers) and then click **Preferences**.



4. Click the SecurePrint tab. Click Enable SecurePrint and then enter a SecurePrint password twice. Note: Do not forget your password. This password is associated with each individual print job and there is no way to retrieve a forgotten password. To apply the same password to all SecurePrint print jobs from this print job forward, click Remember my Password. Click OK.



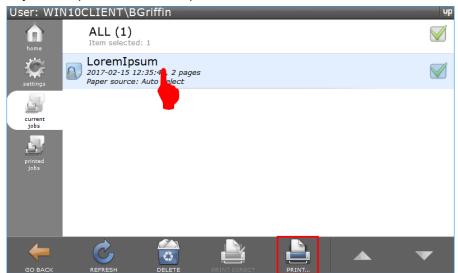
5. Click Print.



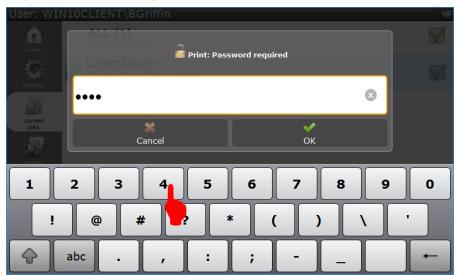
**6.** To release the print job, go to the SecurePrint Emulator or UniPrint vPad. Tap the keyboard to start entering your user name and then tap to select your user name to get a list of print jobs sent through SecurePrint.



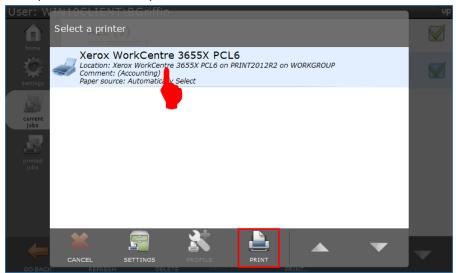
7. Tap to select the print job to be printed and then tap **Print**.



8. Enter the SecurePrint password and then tap **OK**.



9. Tap to select a printer to print to and then tap Print.



**10.** The document will be printed with a watermark across each page. To remove this watermark, contact <a href="mailto:sales@uniprint.net">sales@uniprint.net</a> to request a demo license.

