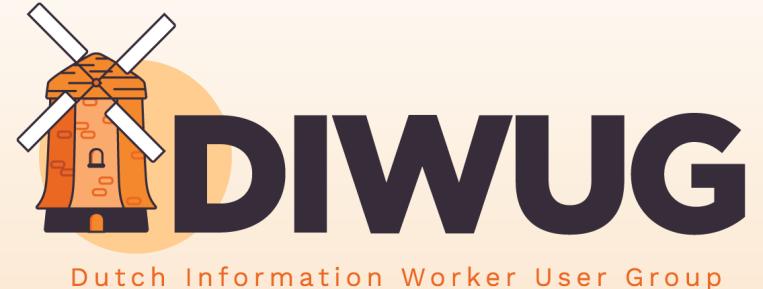




# DIWUG

Dutch Information Worker User Group

# Unlock the future of printing



**Cor den Boer**

Cloud Solution Architect  
Blogger 2azure.nl



**Johannes Muller**

Cloud Solution Architect



**PROXSYS\***

# Agenda

---

## Microsoft Universal Print

- What is it
- Prerequisites
- Pricing
- Deployment Paths / Demo's
- Notes from the field

# What is Microsoft Universal Print?

---

A blurred background image of a person sitting at a desk, working on a computer. There are multiple monitors, a keyboard, and other office equipment visible.

It's not a

Printserver

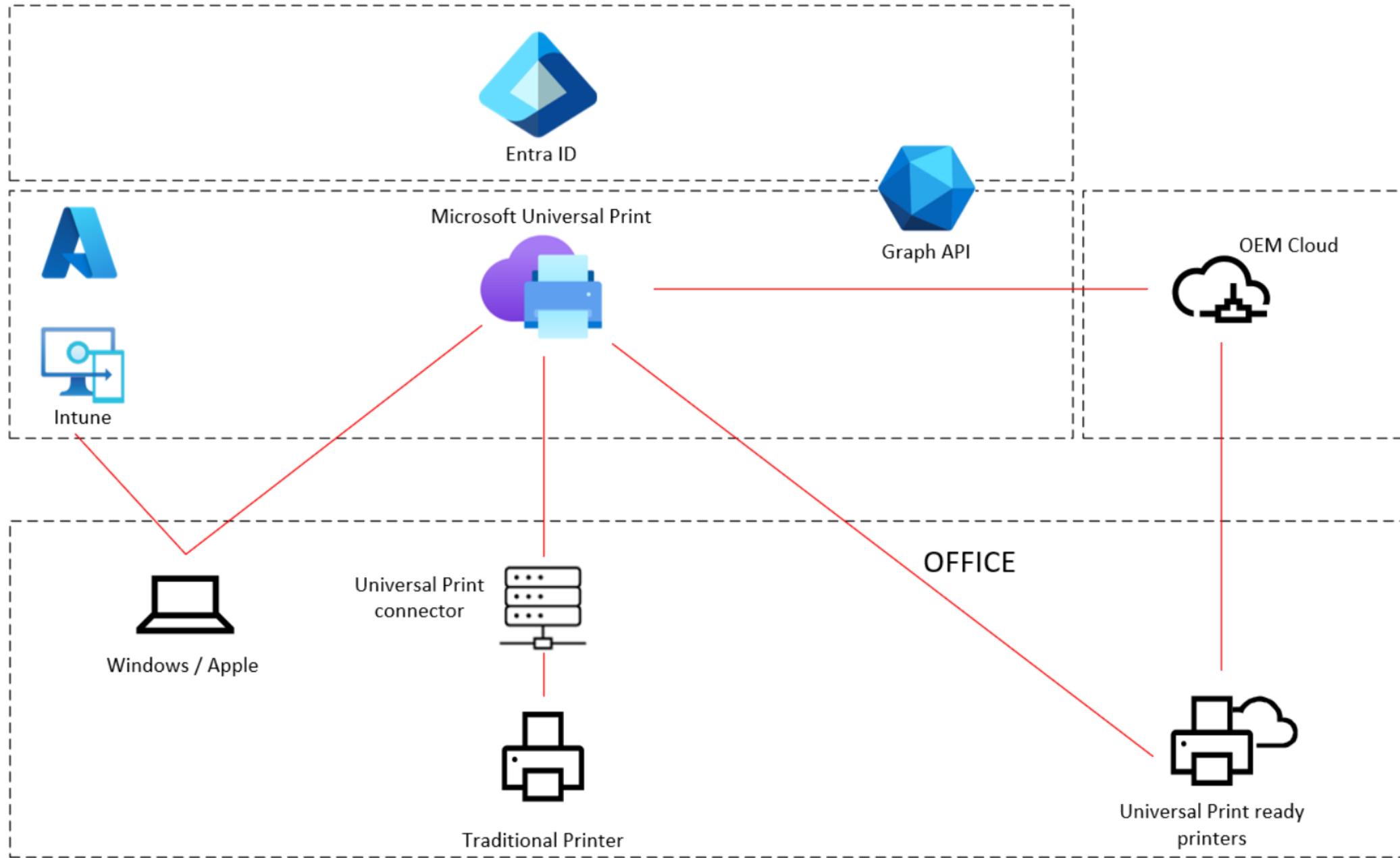
# So? What is it then?

---

A modern print solution (through Microsoft's cloud services)

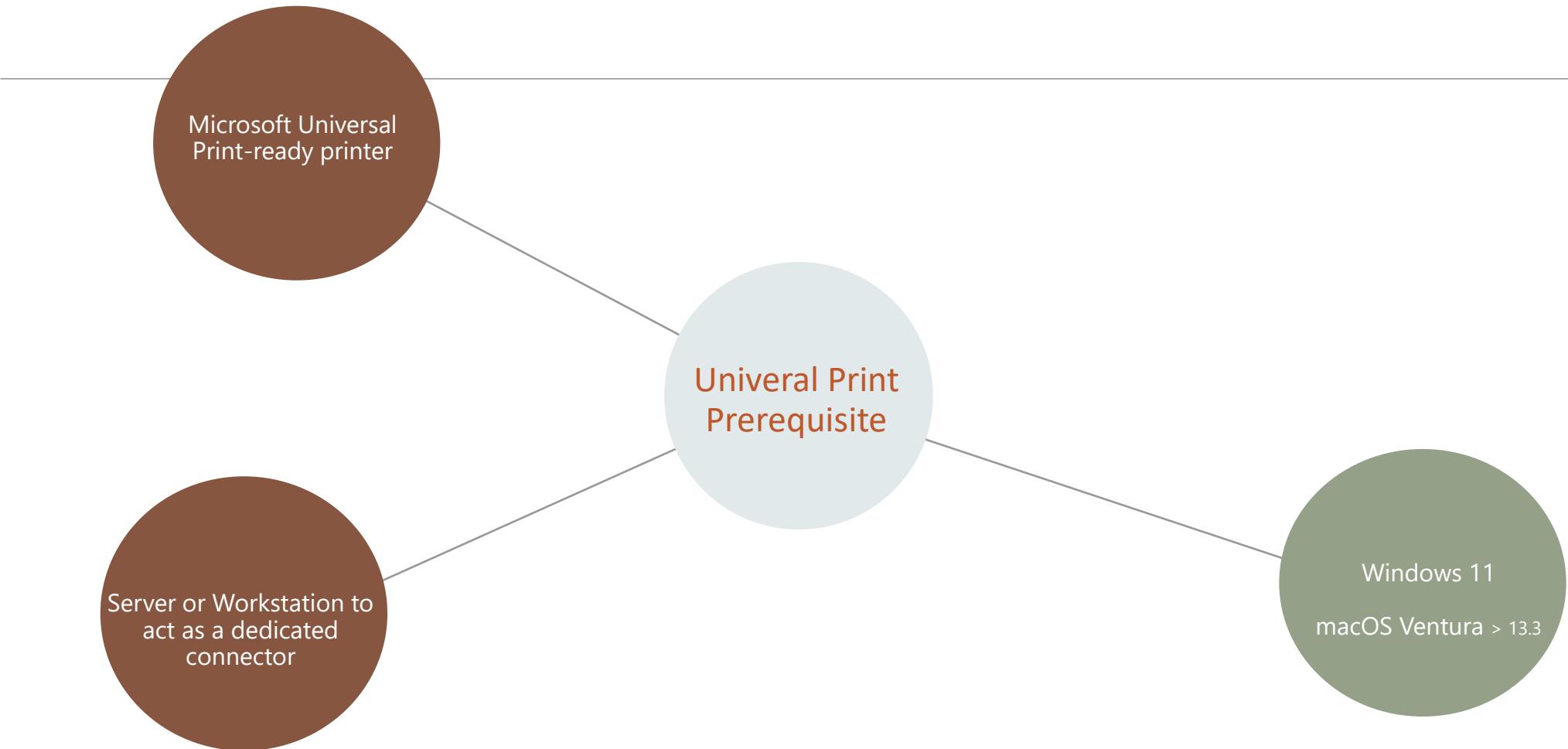
Integrated with Microsoft Entra ID and Microsoft Graph

Cloud-based operation, Subscription-based service



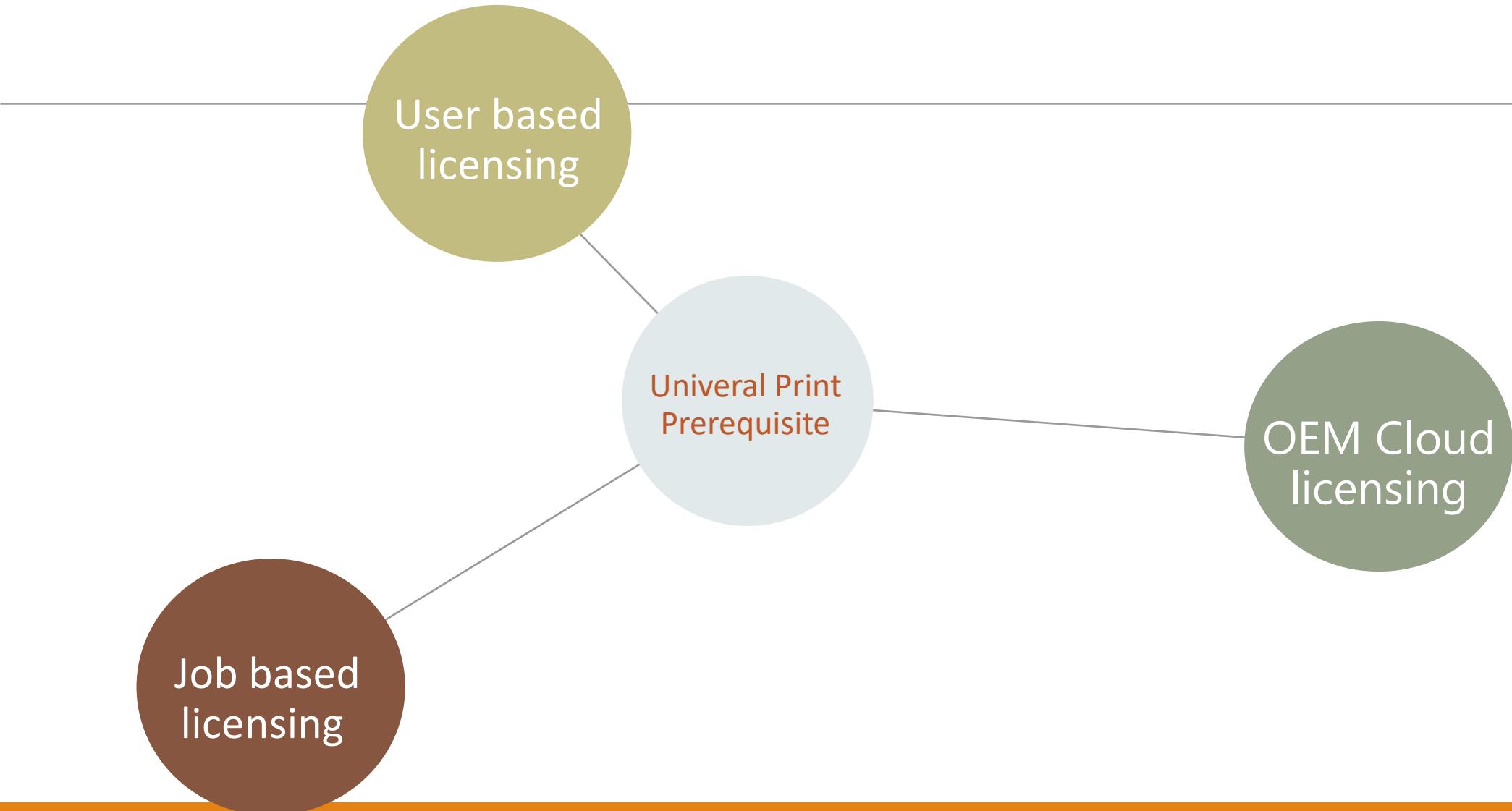
# Prerequisites

---

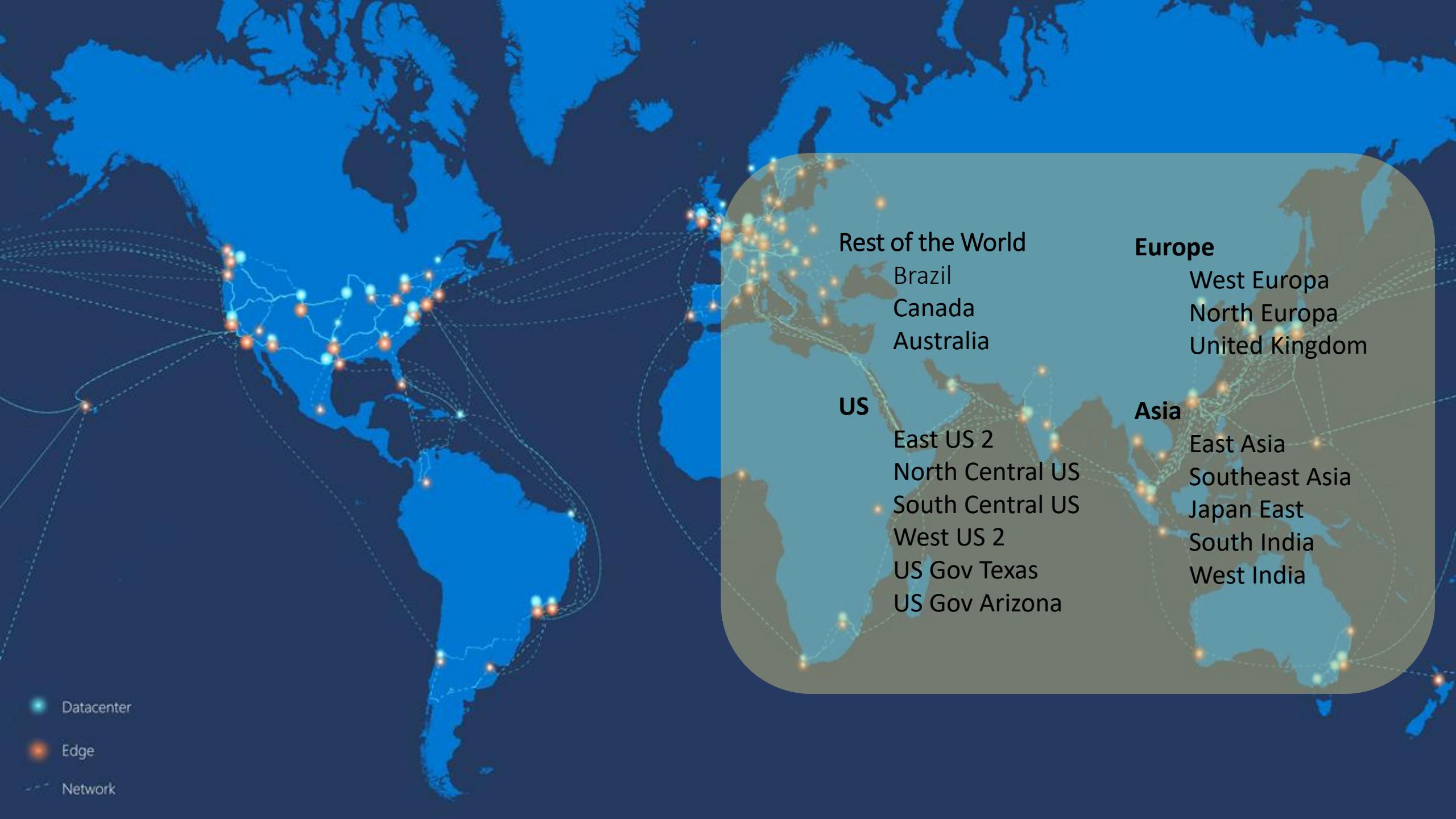


# Prerequisites

---







Rest of the World

Brazil

Canada

Australia

US

East US 2

North Central US

South Central US

West US 2

US Gov Texas

US Gov Arizona

Europe

West Europa

North Europa

United Kingdom

Asia

East Asia

Southeast Asia

Japan East

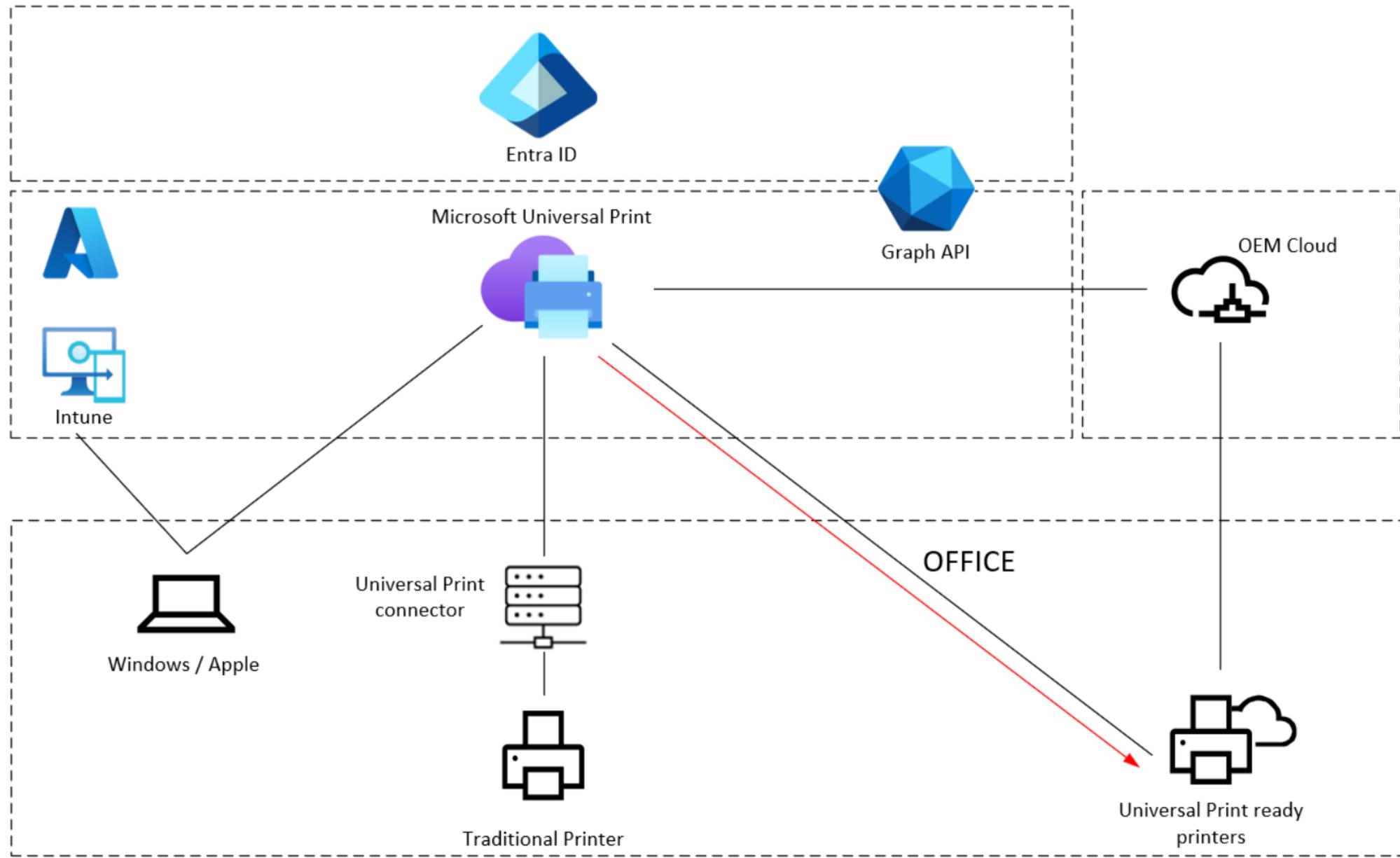
South India

West India

Datacenter

Edge

Network





...

 << Delete Endpoints Preview features

⚠ A certificate or secret is expiring soon. Create a new one →

^ Essentials

Display name	:	<a href="#">HPCommandCenter</a>	Client credentials	:	<a href="#">0 certificate, 1 secret</a>
Application (client) ID	:	bff84522-275b-4c96-8a22-8e5eebd8aafe	Redirect URLs	:	<a href="#">1 web, 0 spa, 0 public client</a>
Object ID	:	cc865fac-bbcd-4e85-b998-cf6d0ec71a4e	Application ID URI	:	<a href="#">Add an Application ID URI</a>
Directory (tenant) ID	:	ce16563d-d0a3-4c40-9fa8-e9413b680d91	Managed application in I...	:	<a href="#">HPCommandCenter</a>
Supported account types : <a href="#">Multiple organizations</a>					

ℹ Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure Active Directory Graph. We will continue to provide technical support and security updates but upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)

⚠ Starting November 9th, 2020 end users will no longer be able to grant consent to newly registered multitenant apps without verified publishers. [Add MPN ID to verify publisher](#)

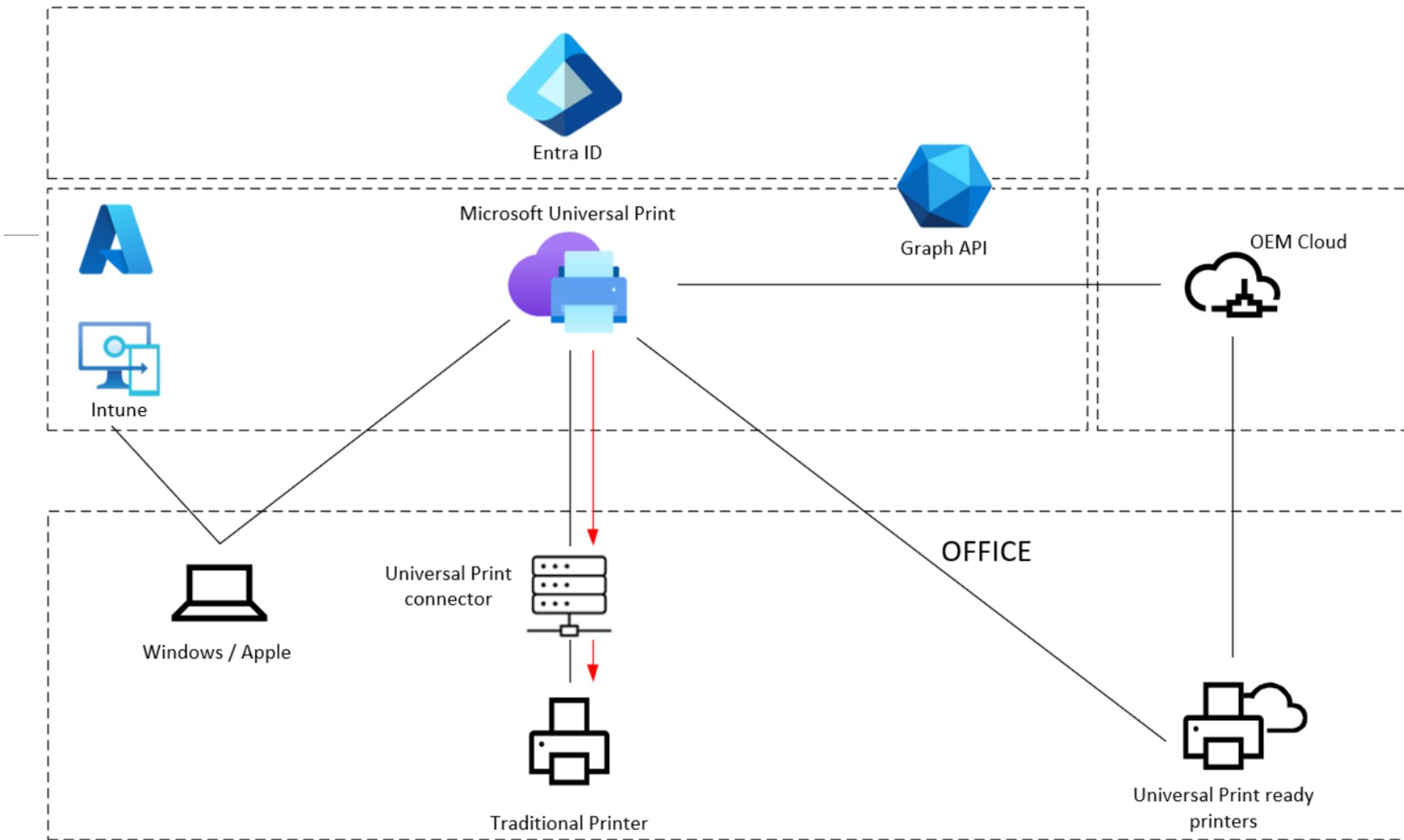
Get Started

Documentation

## Build your application with the Microsoft identity platform

The Microsoft identity platform is an authentication service, open-source libraries, and application management tools. You can create modern, standards-based authenti...  
protect APIs, and add sign-in for your users and customers. [Learn more](#)





# Onboarding

---

Printer administrator needs an Universal Print license assigned!

# Direct Print



Brother MFC-L5750DW series Not secure | 192.168.1.7/general/status.html

# MFC-L5750DW series

Logout

General Address Book Fax Copy Print Scan Administrator Network

brother  
Brother Solutions Center

Status

Auto Refresh Interval

Maintenance Information

Lists/Reports

Find Device

Contact & Location

Sleep Time

Auto Power Off

Volume

Panel

## Status

Device Status Toner Low

Automatic Refresh  Off  On

Toner Level !

BK

Web Language Auto

Device Location Contact:  Location: 

Copyright(C) 2000-2015 Brother Industries, Ltd. All Rights Reserved.

# Universal Print ready printers

**brother**  
at your side

**Canon**

**EPSON**

**FUJIFILM**  
Value from Innovation



 **KYOCERA**

 **Lexmark™**

**RICOH**

**SHARP**

 **Triumph-Adler**  
The Document Business  
A KYOCERA GROUP COMPANY

**TOSHIBA**

**xerox™**

# Universal Print ready Solutions



# Print connector

---

## Connector Requirements

---

- Windows 11 (Pro or Ent, version 22631 or later)
- Windows 10 (Pro or Ent, version 1905 or later)
- Windows Server 2025
- Windows Server 2022
- Windows Server 2019 (Phase-out)
- .NET Framework 4.8

## Connector Requirements

---

- Running 24x7
- Internet Connection
- Connection to the Printers

A working Microsoft Cloud ☺

---

# Install Printers on connector machine



Print Management

File Action View Help

Print Management

Custom Filters

Print Servers

PRINTSERVER1 (local)

- Drivers
- Forms
- Ports
- Printers

Deployed Printers

Printer Name	Queue Status	Jobs In Progress	Actions
DYMO LabelWriter 400	Ready	0	Printers
HP EL 2024 Demo Printer B/W	Ready	0	More Actions

Settings

Home

Find a setting

Devices

Bluetooth & other devices

Printers & scanners

Mouse

Typing

Pen & Windows Ink

AutoPlay

USB

Printers & scanners

prox3-rtm1-pr1 (HP PageWide Color MFP E58650)

Printer

HP PageWide Color MFP E58650 [86D6FC]

Printer

Add device

The printer that I want isn't listed

Let Windows manage my default printer

When this is on, Windows will set your default printer to be the one you used most recently at your current location.

Download over metered connections

To help prevent extra charges, keep this off so device software (drivers, info, and apps) for new devices won't download while you're on metered Internet connections.

Related settings

Print server properties

Run the troubleshooter

# Printers & scanners

## Add printers & scanners

Refresh

Printer and scanner search completed

HP PageWide Color MFP E58650 [86D6FC]

Printer

Add device

The printer that I want isn't listed

Let Windows manage my default printer

When this is on, Windows will set your default printer to be the one you used most recently at your current location.

Download over metered connections

To help prevent extra charges, keep this off so device software (drivers, info, and apps) for new devices won't download while you're on metered Internet connections.

Related settings

Print server properties

Run the troubleshooter



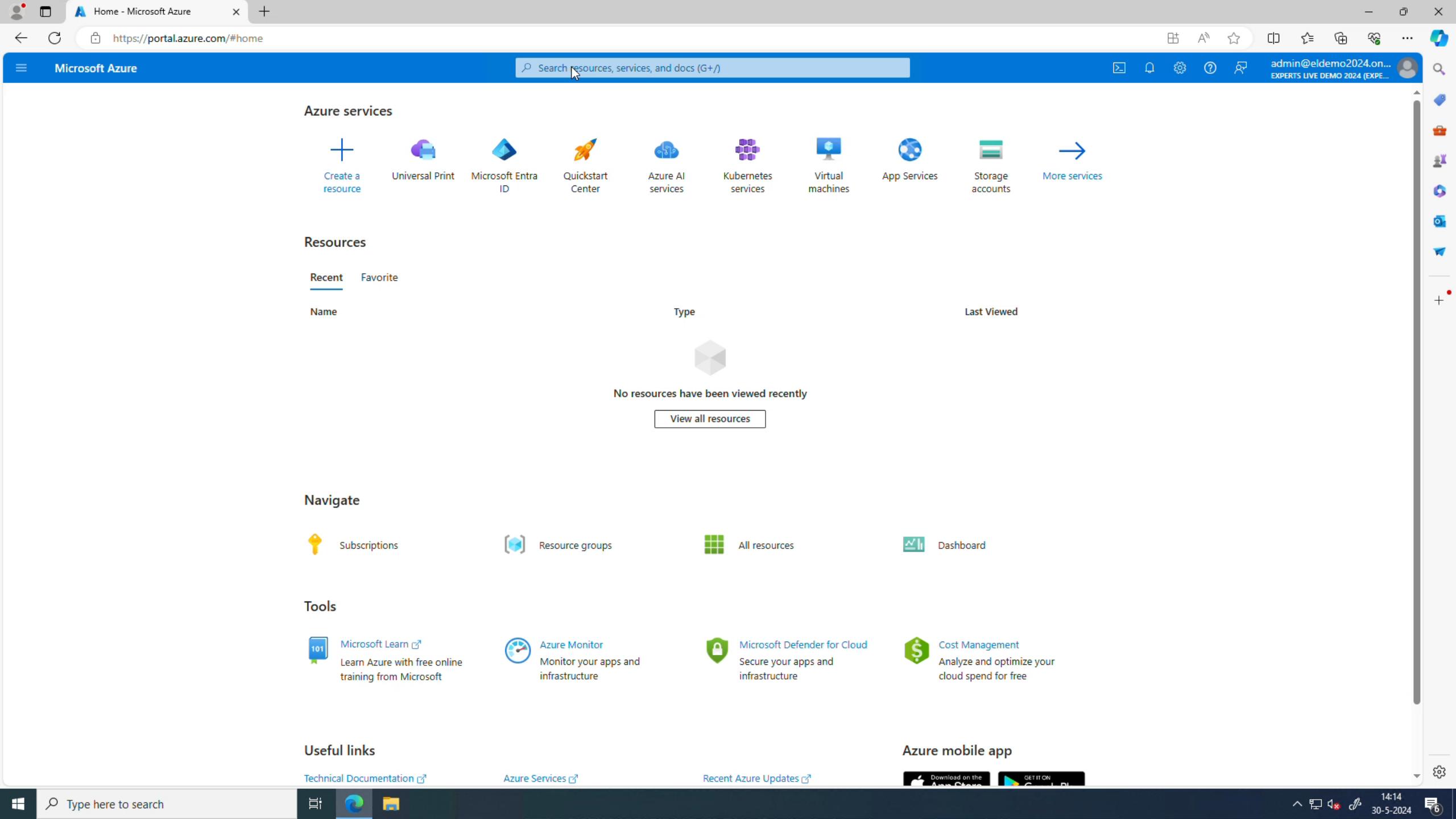
Type here to search



14:24  
30-5-2024

# Universal Print Connector installation





# Register Printers





Recycle Bin

Universal Print connector (1.92.8878.42820)

Signed in as: admin@eldemo2024.onmicrosoft.com

Manage registered printer settings: [Universal Print portal](#)

[Sign out](#)

[Privacy and Cookies](#)

**Universal Print connector configuration**

Local service name: Print Connector service  
Local service status: Running  
Connector name: Printserver1

**Automatically collect diagnostics:**

On  Off

[Refresh printers](#)

**Enable hybrid AD configuration:** ([Learn More](#))

On  Off

**Registered printers:**

- Printer name
- Brother MFC-L5750DW series [30055c9aec13]
- DYMO LabelWriter 400
- HP EL 2024 Demo Printer Color

[Collect printer diagnostics](#) [Collect connector diagnostics](#)

**Available Printers:**

- Printer name
- HP EL 2024 Demo Printer B&W

[Register](#)

**Operation list**

Printer name	State

[Abort pending](#) [Retry failed](#) [Clear failed](#)

# Share Printers



Groups - Microsoft Azure    Universal Print - Microsoft Azure

https://portal.azure.com/#view/Microsoft\_AAD\_IAM/GroupsManagementMenuBlade/~/AllGroups

Microsoft Azure

Search resources, services, and docs (G+)

Home > Experts Live Demo 2024 | Groups >

## Groups | All groups

Experts Live Demo 2024

New group Download groups Refresh Manage view Delete Got feedback?

Azure Active Directory is now Microsoft Entra ID. [Learn more](#)

el24

Add filter

Search mode Contains

4 groups found

<input type="checkbox"/>	Name	Object Id	Group type	Membership type	Email	Source
<input type="checkbox"/>	ED EL24 Demo PC	0746ad6a-6408-4cb7-ae56-2813085e2f3e	Security	Assigned		Cloud
<input type="checkbox"/>	E- EL24 - Color HP Printer	557fc8c0-283a-4942-ae7c-8e2f0516a86c	Security	Assigned		Cloud
<input type="checkbox"/>	E- EL24 - Dymo Label Printer	5ba9d89c-09d4-42cb-ad3d-a643bd57a59a	Security	Assigned		Cloud
<input type="checkbox"/>	E- EL24 - B&W HP Printer	870cee4c-6e14-46e7-b599-fec831fd0037	Security	Assigned		Cloud

All groups

Deleted groups

Diagnose and solve problems

General

Expiration

Naming policy

Privileged Identity Management

Access reviews

Audit logs

Bulk operation results

Troubleshooting + Support

New support request

Type here to search

14:58 30-5-2024

admin@eldemo2024.on... EXPERTS LIVE DEMO 2024 (EXPE...)

# Printer Deployment

---



Automatic

Manual

---

# Automatic printer installation using Intune



Home

Dashboard

All services

Devices

Apps

Endpoint security

Reports

Users

Groups

Tenant administration

Troubleshooting + support

## Experts Live Demo 2024

# Welcome to the fresh look for Intune

Explore the updated homepage. Inside is still the familiar unified management solution for all your endpoints.

Give us your feedback



### Status

Devices not in compliance  
0

Configuration policies with error or conflict  
3

Client app install failure  
0

Cloud PCs with failed provisioning  
0

Connector errors  
0

Service health  
**Healthy**

Account status  
**Active**

### Spotlight



#### Introducing the Microsoft Intune Suite

The unified solution includes Remote Help, Endpoint Privilege Management, AI-powered advanced analytics, and more.

Explore



#### Increase productivity with Cloud PCs

Easily provision Windows 365 Cloud PCs and manage them alongside your physical devices.

Explore

### Get more out of Intune



#### Microsoft Intune Blog

Discuss best practices, get the latest news, and engage in conversations around Microsoft Intune.

#### What's new in Microsoft Intune May 2024

Manage shared devices for frontline with Microsoft Intune

Windows deployment with the next generation of Windows Autopilot



#### Intune Customer Success

Get the deep technical knowledge to help you be successful using Intune.

User self-service BitLocker recovery key access with Intune Company Portal website now available

Support tip: Organizational messages is moving to Microsoft 365 admin center

Introducing a new enrollment method for staging corporate Android devices with Microsoft Intune

# Printer Deployment

---



Automatic

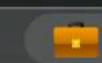
**Manual**

# Manual printer installation





Search



ENG  
US



15:33  
30/05/2024

# QR Print Release





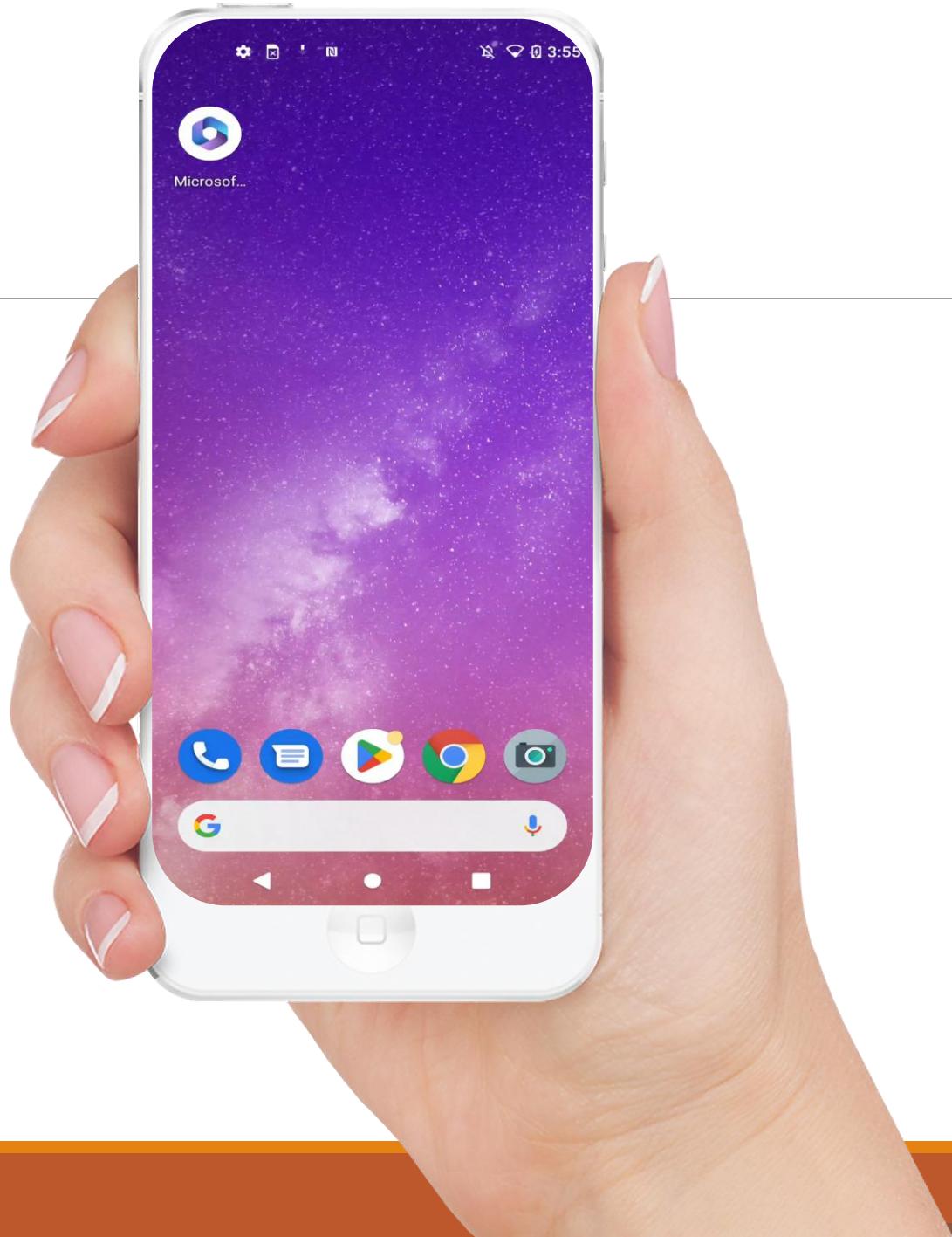
Search



ENG  
US



15:35  
30/05/2024



---

# Follow me print



# Follow me print / Pull Print

---

GA-Available since august 2025

---



- Print from any device to any corporate printer without choosing a destination printer in advance
- Authenticate at any printer to securely release their jobs
- Prevent confidential documents from being left unattended
- Reduce toner and paper waste from uncollected prints

# Deleting Printers



Microsoft Azure Search resources, services, and docs (G+)

Home > Universal Print Refresh Share Unregister Give feedback

## HP EL 2024

Essentials

Search Overview

Name	: DYMO LabelWriter 400
Printer Id	: d598ea8d-02a0-43a8-85c6-4b8597d36f00
Model	: DYMO LabelWriter 400
Manufacturer	: Unavailable
Last seen	: 1 minute ago
Last seen (UTC)	: 2024-05-30 18:52 UTC
Registration date	: 2024-05-30T12:48:36.709452Z

# Renaming Printers

---

- 
- Delete printer share
  - Unregister the printer
  - Change printer name
  - Register printer
  - Create printer share
  - Renaming Printers

# Printing Insights



Universal Print - Microsoft Azure

https://portal.azure.com/#view/Universal\_Print/MainMenuBlade/~/Printers

Microsoft Azure

Search resources, services, and docs (G+)

admin@eldemo2024.on... EXPERTS LIVE DEMO 2024 (EXPE...)

Home > Universal Print

## Universal Print | Printers

Search Share Unregister Refresh Edit columns Download Give feedback

Add filter Search by printer name, manufacturer, or model

Name	Printer Status	Share Status	Share Name	Last Seen
HP EL 2024 Demo Printer Color	Ready	Shared	HP EL 2024 Demo Printer Color	1 minute ago
DYMO LabelWriter 400	Ready	Shared	DYMO LabelWriter 400	1 minute ago
HP EL 2024 Demo Printer B&W	Ready	Shared	HP EL 2024 Demo Printer B&W	1 minute ago

Printers

Printer shares

Connectors

Monitor

Usage and reports (Preview)

Configure

Settings

Support & feedback

Diagnose and solve problems

Support

Type here to search

16:00 30-5-2024

Home &gt; Universal Print

## Universal Print | Usage and Reports

 Search Overview

Manage

 Printers Printer Shares Connectors Document conversion

Monitor

 Usage and Reports

Support &amp; Feedback

 Diagnose and solve problems Submit Feedback Support

This report includes promotional volume included with your Universal Print trial licenses. If you currently have trial licenses, total available print job volume will decrease when those licenses expire.

[Overview](#)[Download reports](#)

### Billing Summary

Usage this month and information about your purchased print volume

Billed Print Jobs

Pending Print Jobs

Remaining Print Jobs

Total Print Capacity

**3,507****523****52,513****56,020**

### Totals

Current resource counts



Printers

**1,841**

Shares

**1,803**

Connectors

**18**

### Activity

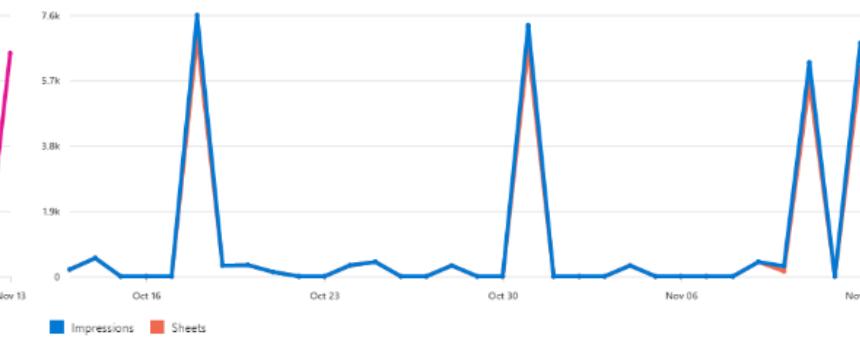
Detailed breakdowns of jobs and pages to help understand your usage

Time Period

Jobs Printed: (Total: 7934)

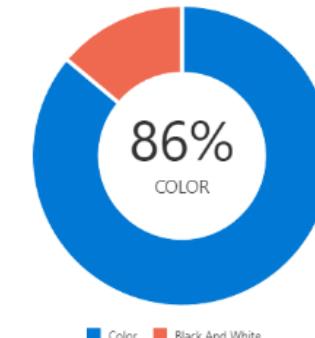


Pages Printed: (Impressions: 31611, Sheets: 28085)



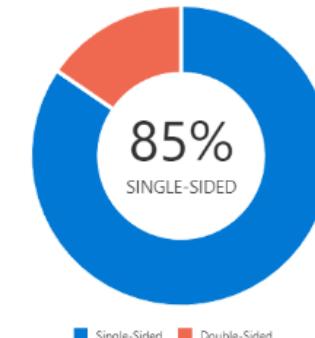
### Color vs. Black and White Impressions

Tip: Reduce printing costs by configuring printers to print black and white by default



### Single vs. Double-Sided Sheets

Tip: Reduce printing costs and environmental impact by configuring printers to print double-sided by default



## Universal Print | Usage and Reports

 Search

Overview

## Manage

Printers

Printer Shares

Connectors

Document conversion

## Monitor

Usage and Reports

## Support &amp; Feedback

Diagnose and solve problems

Submit Feedback

Support

This report includes promotional volume included with your Universal Print trial licenses. If you currently have trial licenses, total available print job volume will decrease when those licenses expire.

Overview Download reports

	Title	Description
	Printer usage (last 30 days)	View usage report for each registered printer
	User usage (last 30 days)	View usage report for each user and group

```

1  Param (
2      # Date should be in this format: 2024-06-01
3      # Default is the first day of the previous month at 00:00:00 (Tenant time zone)
4      $StartDate = ""
5      # Date should be in this format: 2024-06-30
6      # default is the last day of the previous month 23:59:59 (Tenant time zone)
7      $EndDate = ""
8      # Set if only the Printer report should be generated
9      [switch]$PrinterOnly,
10     # Set if only the User report should be generated
11     [switch]$UserOnly
12 )
13 #####
14 # INSTALL & IMPORT MODULES
15 #####
16 if(-not (Get-Module Microsoft.Graph.Reports -ListAvailable)){
17     Write-Progress -Activity "Installing Universal Print dependencies..." -PercentComplete 60
18     Install-Module Microsoft.Graph.Reports -Scope CurrentUser -Force
19 }
20 Import-Module Microsoft.Graph.Reports
21 #####
22 # SET DATE RANGE
23 #####
24 if ($StartDate -eq "") {
25     $StartDate = (Get-Date -Day 1).AddMonths(-1).ToString("yyyy-MM-ddT00:00:00Z")
26 } else {
27     $StartDate = ([DateTime]$StartDate).ToString("yyyy-MM-ddT00:00:00Z")
28 }
29 if ($EndDate -eq "") {
30     $EndDate = (Get-Date -Day 1).AddDays(-1).ToString("yyyy-MM-ddT23:59:59Z")
31 } else {
32     $EndDate = ([DateTime]$EndDate).ToString("yyyy-MM-ddT23:59:59Z")
33 }
34 echo "Gathering reports between $startDate and $endDate."
35 #####
36 # SIGN IN & CONNECT TO MICROSOFT GRAPH
37 #####
38 # These scopes are needed to get the list of users, list of printers, and to read the reporting data.
39 Connect-MgGraph -Scopes "Reports.Read.All"
40 #####
41 # GET PRINTER REPORT
42 #####
43 if (!$UserOnly)
44 {
45     Write-Progress -Activity "Gathering Printer usage..." -PercentComplete -1
46     # Get the printer usage report
47     $PrinterReport = Get-MgReportMonthlyPrintUsageByPrinter -All -Filter "completedJobCount gt 0 and usageDate ge $StartDate and usageDate lt $EndDate"
48     # Join extended printer info with the printer usage report
49     $reportWithPrinterNames = $PrinterReport |
50         Select-Object (
51             @Name = "UsageMonth"; Expression = {$_.Id.Substring(0,8)},
52             @Name = "PrinterId"; Expression = {$_.PrinterName},
53             @Name = "displayName"; Expression = {$_.PrinterName},
54             @Name = "TotalJobs"; Expression = {$_.CompletedJobCount},
55             @Name = "ColorJobs"; Expression = {$_.CompletedColorJobCount},
56             @Name = "BlackAndwhiteJobs"; Expression = {$_.CompletedBlackAndwhiteJobCount},
57             @Name = "ColorPages"; Expression = {$_.ColorPageCount},
58             @Name = "BlackAndwhitePages"; Expression = {$_.BlackAndwhitePageCount},
59             @Name = "TotalSheets"; Expression = {$_.MediaSheetCount})
60
61     # Write the aggregated report CSV
62     $PrinterReport | Export-Csv -Path .\printerReport.csv
63 }
64 #####
65 # GET USER REPORT
66 #####
67 if (!$PrinterOnly)
68 {
69     Write-Progress -Activity "Gathering User usage..." -PercentComplete -1
70     # Get the user usage report
71     $UserReport = Get-MgReportMonthlyPrintUsageByUser -All -Filter "completedJobCount gt 0 and usageDate ge $StartDate and usageDate lt $EndDate"
72     $reportWithUserInfo = $UserReport |
73         Select-Object (
74             @Name = "UsageMonth"; Expression = {$_.Id.Substring(0,8)},
75             @Name = "UserPrincipalName"; Expression = {$_.UserPrincipalName},
76             @Name = "TotalJobs"; Expression = {$_.CompletedJobCount},
77             @Name = "ColorJobs"; Expression = {$_.CompletedColorJobCount},
78             @Name = "BlackAndwhiteJobs"; Expression = {$_.CompletedBlackAndwhiteJobCount},
79             @Name = "ColorPages"; Expression = {$_.ColorPageCount},
80             @Name = "BlackAndwhitePages"; Expression = {$_.BlackAndwhitePageCount},
81             @Name = "TotalSheets"; Expression = {$_.MediaSheetCount})
82
83     $reportWithUserInfo | Export-Csv -Path .\userReport.csv
84 }

```

```
1 Param (
2     # Date should be in this format: 2024-06-01
3     # Default is the first day of the previous month at 00:00:00 (Tenant time zone)
4     $StartDate = "",
5     # Date should be in this format: 2024-06-30
6     # Default is the last day of the previous month 23:59:59 (Tenant time zone)
7     $EndDate = "",
8     # Set if only the Printer report should be generated
9     [switch]$PrinterOnly,
10    # Set if only the User report should be generated
11    [switch]$UserOnly
12 )
13 #####
14 # INSTALL & IMPORT MODULES
15 #####
16 #####
17
18 if(-not (Get-Module Microsoft.Graph.Reports -ListAvailable)){
19     Write-Progress -Activity "Installing Universal Print dependencies..." -PercentComplete 60
20     Install-Module Microsoft.Graph.Reports -Scope CurrentUser -Force
21 }
22 Import-Module Microsoft.Graph.Reports
23 #####
24 # SET DATE RANGE
25 #####
26 #####
27 if ($StartDate -eq "") {
28     $StartDate = (Get-Date -Day 1).AddMonths(-1).ToString("yyyy-MM-ddT00:00:00Z")
29 } else {
30     $StartDate = ([DateTime]$StartDate).ToString("yyyy-MM-ddT00:00:00Z")
31 }
32
33 if ($EndDate -eq "") {
34     $EndDate = (Get-Date -Day 1).AddDays(-1).ToString("yyyy-MM-ddT23:59:59Z")
35 } else {
36     $EndDate = ([DateTime]$EndDate).ToString("yyyy-MM-ddT23:59:59Z")
37 }
38
39 echo "Gathering reports between $StartDate and $EndDate."
40 #####
41 # SIGN IN & CONNECT TO MICROSOFT GRAPH
42 #####
43 #####
44
45 # These scopes are needed to get the list of users, list of printers, and to read the reporting data.
46 Connect-MgGraph -Scopes "Reports.Read.All"
47
```

```
47 #####
48 # GET PRINTER REPORT
49 #####
50 #####
51
52 if (!$UserOnly)
53 {
54     Write-Progress -Activity "Gathering Printer usage..." -PercentComplete -1
55
56 # Get the printer usage report
57 $printerReport = Get-MgReportMonthlyPrintUsageByPrinter -All -Filter "completedJobCount gt 0 and usageDate ge $StartDate and usageDate lt $EndDate"
58
59 ## Join extended printer info with the printer usage report
60 $reportWithPrinterNames = $printerReport |
61     Select-Object (
62         @{Name = "UsageMonth"; Expression = {$_.Id.Substring(0,8)}},
63         @{Name = "PrinterId"; Expression = {$_.PrinterId}},
64         @{Name = "DisplayName"; Expression = {$_.PrinterName}},
65         @{Name = "TotalJobs"; Expression = {$_.CompletedJobCount}},
66         @{Name = "ColorJobs"; Expression = {$_.CompletedColorJobCount}},
67         @{Name = "BlackAndWhiteJobs"; Expression = {$_.CompletedBlackAndWhiteJobCount}},
68         @{Name = "ColorPages"; Expression = {$_.ColorPageCount}},
69         @{Name = "BlackAndwhitePages"; Expression = {$_.BlackAndwhitePageCount}},
70         @{Name = "TotalSheets"; Expression = {$_.MediaSheetCount}})
71
72 # Write the aggregated report CSV
73 $printerReport | Export-Csv -Path .\printerReport.csv
74 }
75 #####
76 # GET USER REPORT
77 #####
78
79 if (!$Printeronly)
80 {
81     Write-Progress -Activity "Gathering User usage..." -PercentComplete -1
82
83 # Get the user usage report
84 $userReport = Get-MgReportMonthlyPrintUsageByUser -All -Filter "completedJobCount gt 0 and usageDate ge $StartDate and usageDate lt $EndDate"
85 $reportWithUserInfo = $userReport |
86     Select-Object (
87         @{Name = "UsageMonth"; Expression = {$_.Id.Substring(0,8)}},
88         @{Name = "UserPrincipalName"; Expression = {$_.UserPrincipalName}},
89         @{Name = "TotalJobs"; Expression = {$_.CompletedJobCount}},
90         @{Name = "ColorJobs"; Expression = {$_.CompletedColorJobCount}},
91         @{Name = "BlackAndWhiteJobs"; Expression = {$_.CompletedBlackAndWhiteJobCount}},
92         @{Name = "ColorPages"; Expression = {$_.ColorPageCount}},
93         @{Name = "BlackAndwhitePages"; Expression = {$_.BlackAndwhitePageCount}},
94         @{Name = "TotalSheets"; Expression = {$_.MediaSheetCount}})
95
96 $reportWithUserInfo | Export-Csv -Path .\userReport.csv
97 }
98 #####
99
```

```

47 #####
48 # GET PRINTER REPORT
49 #####
50 #####
51
52 if (!$UserOnly)
53 {
54     Write-Progress -Activity "Gathering Printer usage..." -PercentComplete -1
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63         @{Name = "UserPrincipalName"; Expression = {$_.UserPrincipalName}},
64         @{Name = "TotalJobs"; Expression = {$_.CompletedJobCount}},
65         @{Name = "ColorJobs"; Expression = {$_.CompletedColorJobCount}},
66         @{Name = "BlackAndWhiteJobs"; Expression = {$_.CompletedBlackAndWhiteJobCount}},
67         @{Name = "ColorPages"; Expression = {$_.ColorPageCount}},
68         @{Name = "BlackAndwhitePages"; Expression = {$_.BlackAndWhitePageCount}},
69         @{Name = "TotalSheets"; Expression = {$_.MediaSheetCount}}
70
71 # Write the aggregated
72 $printerReport | Export-Csv -Path .\printerreport.csv
73 }
74 #####
75 #####
76 # GET USER REPORT
77 #####

```

A	B	C	D	E	F	G	H	
1	UsageMonth	UserPrincipalName	TotalJobs	ColorJobs	BlackAndWhiteJobs	ColorPages	BlackAndWhitePages	TotalSheets
2	2024-May	a.vermeulen@expertslive2024.nl	2	2	0	2	0	1
3								
4								

BlackAndWhitePageCount	ColorPageCount	CompletedBlackAndWhiteJobCount	CompletedColorJobCount	CompletedJobCount	DoubleSidedSheetCount	Id	IncompleteJobCount	MediaSheetCount	PageCount	PrinterId	PrinterName	SingleSidedSheetCount	UsageDate	AdditionalProperties
0	2	0	2	2	1	2024-May-printer-2e65cb4f-5617-4ebf-8821-d3312c2e009e	0	1	2	2e65cb4f-5617-4ebf-8821-d3312c2e009e	HP EL 2024 Demo Printer Color	0	1-5-2024 00:00	System.Collections.Generic.Dictionary`2[System.String,System.Object]

```

85 #####
86 $userReport = Get-MgReportMonthlyPrintUsageByUser -All -Filter "completedJobCount gt 0 and usageDate ge $StartDate and usageDate lt $EndDate"
87 $reportWithUserInfo = $userReport |
88     Select-Object -
89         @{Name = "UsageMonth"; Expression = {$_.Id.Substring(0,8)}},
90         @{Name = "UserPrincipalName"; Expression = {$_.UserPrincipalName}},
91         @{Name = "TotalJobs"; Expression = {$_.CompletedJobCount}},
92         @{Name = "ColorJobs"; Expression = {$_.CompletedColorJobCount}},
93         @{Name = "BlackAndWhiteJobs"; Expression = {$_.CompletedBlackAndWhiteJobCount}},
94         @{Name = "ColorPages"; Expression = {$_.ColorPageCount}},
95         @{Name = "BlackAndwhitePages"; Expression = {$_.BlackAndWhitePageCount}},
96         @{Name = "TotalSheets"; Expression = {$_.MediaSheetCount}})
97
98 $reportWithUserInfo | Export-Csv -Path .\userReport.csv
99 #####

```

# Licensing

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- 
- Microsoft 365 Enterprise F3, E3, E5, A3, A5
  - Windows 10/11 Enterprise E3, E5, A3, A5
  - Microsoft 365 Business Premium
  - Universal Print

# Gov Licensing

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- 
- Microsoft 365 Government G3, G5
  - Microsoft 365 Enterprise E3, E5
  - Windows 10/11 Enterprise E5 Commercial
  - Universal Print for GCC

# Jobs per month covered

- ❖ Microsoft 365 Enterprise BP, E3 & E5 100 Jobs
  - ❖ Microsoft 365 A3, A5 100 Jobs
  - ❖ Microsoft 365 F3 5 Jobs
  - ❖ Windows 10 E3, E5, A3, A5 5 Jobs
  - ❖ Universal Print (Stand-Alone License) 5 Jobs

# Job-Based Licensing

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**100 Microsoft 365 E3 licenses and 100 Microsoft 365 F3 licenses**

$$\begin{aligned}(100 \times 100 \text{ Jobs}) + (100 \times 5 \text{ Jobs}) \\= 10.500 \text{ Jobs monthly}\end{aligned}$$

# Additional Job Quantity

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- 
- ❖ **500 Jobs (Monthly)** ~€ 25
  - ❖ **10.000 Jobs (Monthly)** ~€300

**Yearly Committed, Monthly billed**

# Licensing

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[Refresh](#)[Delete printer share](#)[Unregister](#)[Give feedback](#)

Your organization has exhausted its purchased print capacity. [Purchase extra capacity](#) to continue using Universal Print.  
[Don't show again until the next billing period](#)

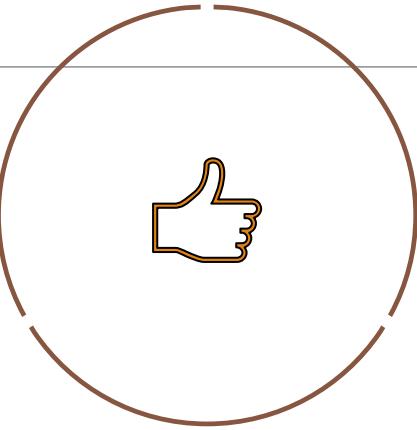
# Printer Licenses

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**OEM Cloud Printer License (per printer, per month)    €10 - €30**

Charges may vary based on vendor  
Yearly commitment, Monthly billed





Thank You

