

Azure Virtual Desktop Enrollment Experience

with MEM Intune



MICROSOFT USER GROUP GHANA



presents

MICROSOFT ENDPOINT MANAGER & WINDOWS VIRTUAL DESKTOP BOOTCAMP.

26th JUNE, 2021

10am - 3:30pm GMT

SPEAKERS



Anoop Nair

Solution Architect and Subject Matter
Expert for SCOM (ConfigMgr)



Donna Ryan

Principal Consulting Engineer with CDW
and a Microsoft Mobility MVP



Maurice Daly

Solution Architect and Subject Matter
Expert for SCOM (ConfigMgr)



Katy Nicholson

Enterprise Mobility MVP, Systems
Manager



Cathy Moya

Senior Program Manager at Microsoft

HOST

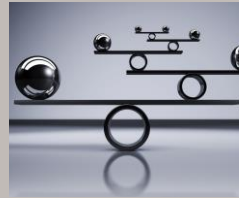


Ernest King Arthur

System Engineer (Member of the Leadership
Team - Microsoft User Group Ghana) Aspiring
Enterprise Mobility Expert

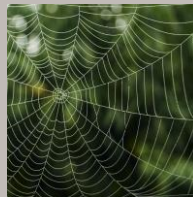


IT Community Influencer!
HTMD Community!
Microsoft MVP from 2015!



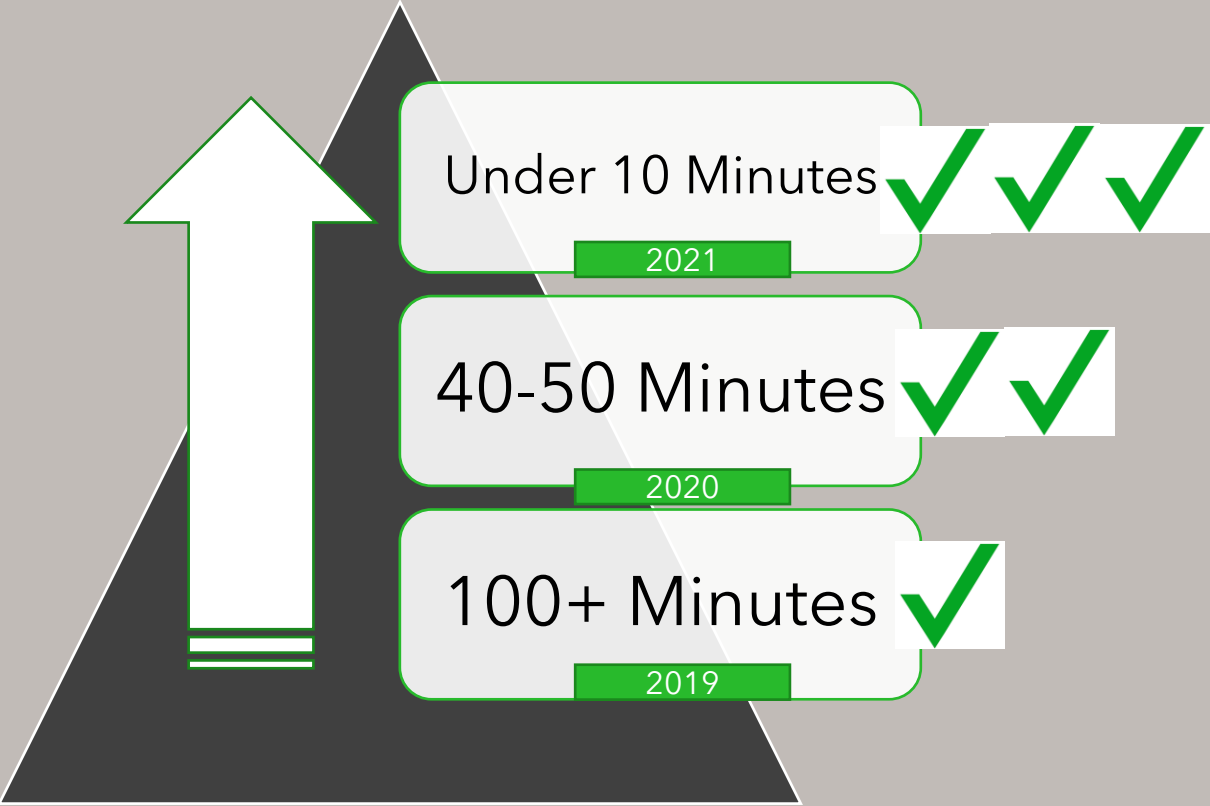
Configuration Manager (a.k.a SCCM)
MEM Intune
Azure Virtual Desktop (a.k.a WVD)

Anoop C Nair



@anoopmannur
<https://www.anoopcnaair.com>
<http://HTMDForum.com>

Improvements – AVD Enrollment Experience with Modern Management Intune



End User Experience

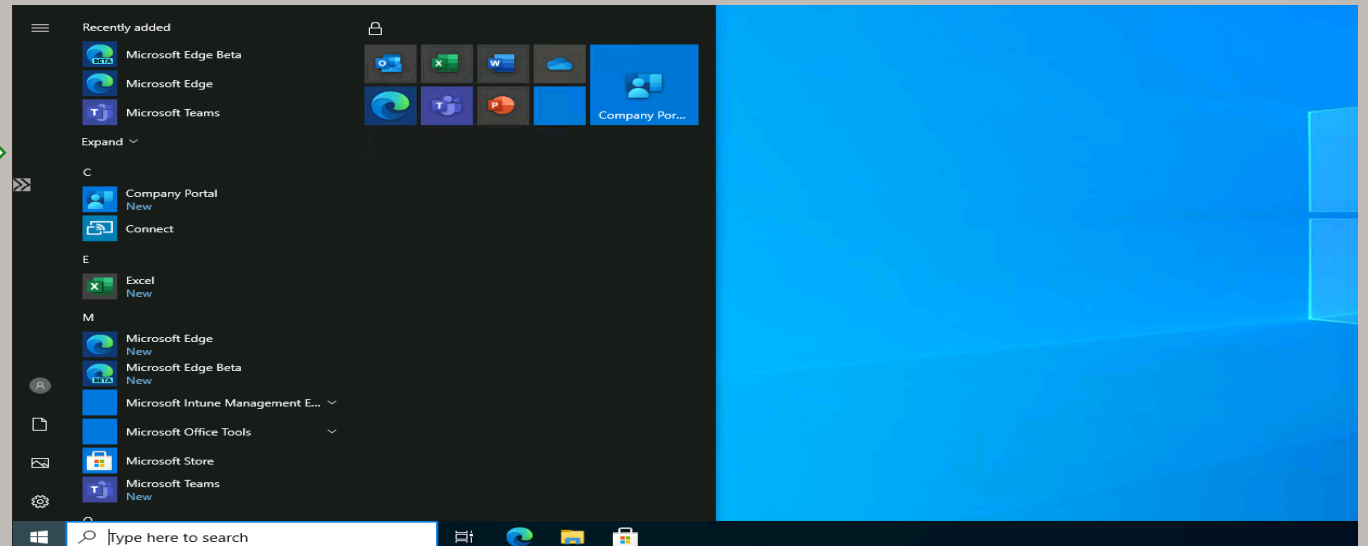
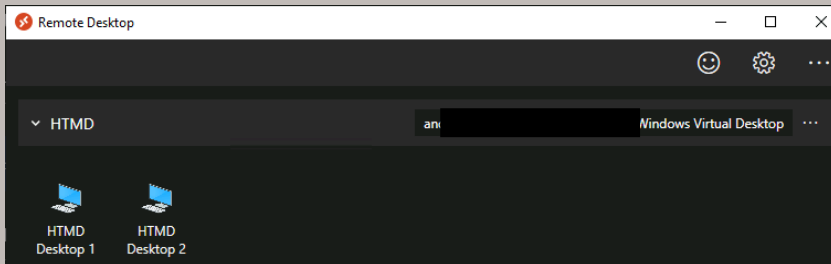


Device based Applications + Policies are deployed immediately after the VM provisioning.



User based policies are deployed immediately after the first user login*.

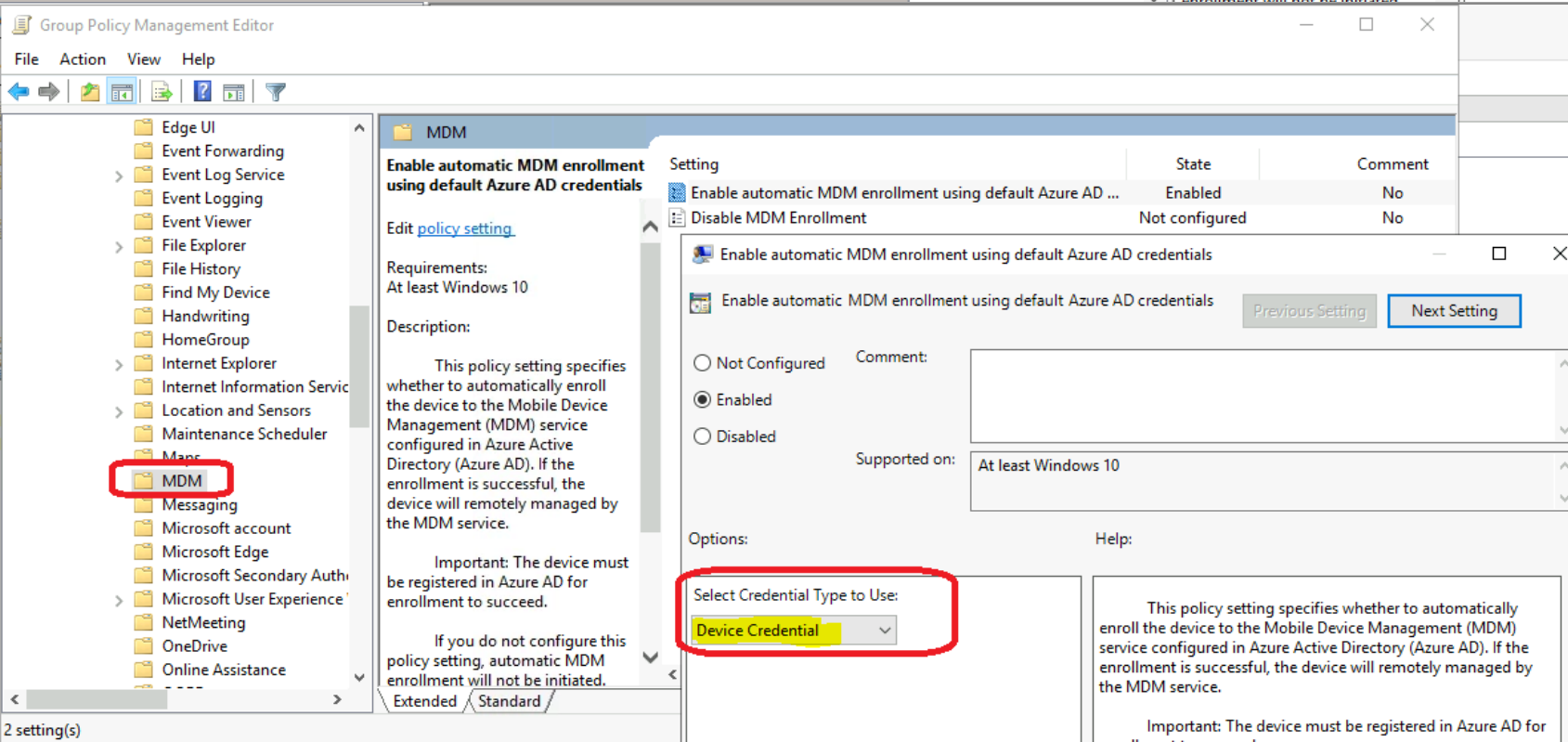
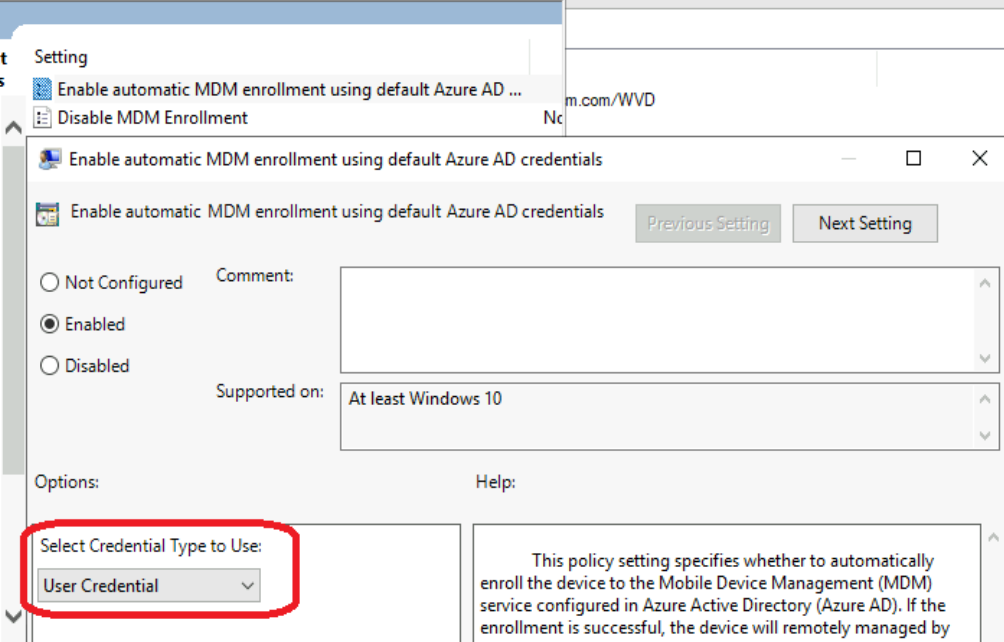
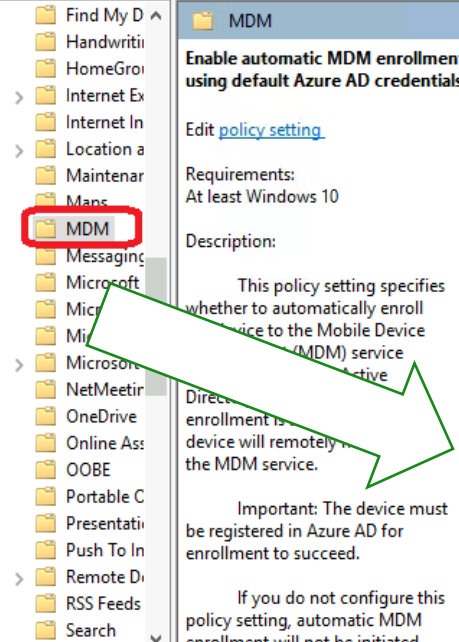
* Single Session



Tips & Tricks from the field

What is Changed?

Name	Description	Status	Startup Type
MessagingService_8d443	Service sup...		Manual (Trig...
Microsoft (R) Diagnostics Hub Standard Collector Service	Diagnostics ...		Manual
Microsoft Account Sign-in Assistant	Enables use...		Manual (Trig...
Microsoft App-V Client	Manages A...		Disabled
Microsoft Intune Management Extension	Microsoft In...	Running	Automatic (D...
Microsoft iSCSI Initiator Service	Manages In...		Manual
Microsoft Office Click-to-Run Service	Manages re...	Running	Automatic
Microsoft Passport	Provides pr...	Running	Manual (Trig...
Microsoft Passport Container	Manages lo...	Running	Manual (Trig...
Microsoft Software Shadow Copy Pr...	Manages so...		Manual
Microsoft Storage Spaces SMP	Host service		Manual



Changed the
Credential Type to
Device Credential
(from User
Credential)

Azure AD Groups

- Create Azure AD Dynamic Device groups for single session and multi session Windows 10 devices

Home > Default Directory > Groups > WVD Namaste Devices

WVD Namaste Devices | Dynamic membership rules

Group

« Save Discard | Got feedback?

Overview

Diagnose and solve problems

Manage

- Properties
- Members
- Owners
- Administrative units
- Group memberships
- Applications
- Licenses
- Azure role assignments
- Dynamic membership rules**

Configure Rules Validate Rules (Preview)

You can use the rule builder or rule syntax text box to create or edit a dynamic membership rule. [Learn more](#)

And/Or	Property	Operator
	displayName	Starts With
+ Add expression		

Rule syntax

```
(device.displayName -startsWith "Namaste")
```



Microsoft Endpoint Manager admin center

Home > Tenant admin

Tenant admin | Filters (preview)

Search (Ctrl+/)

+ Create

The filters (preview) feature is enabled for your evaluation!

Search by filter name

Filter name	Platform
WVD Windows 10 Multi Session WVD VMs	Windows 10
Windows 10 20H2	Windows 10
Windows 10 Single Session	Windows 10
Windows Version 2004	Windows 10

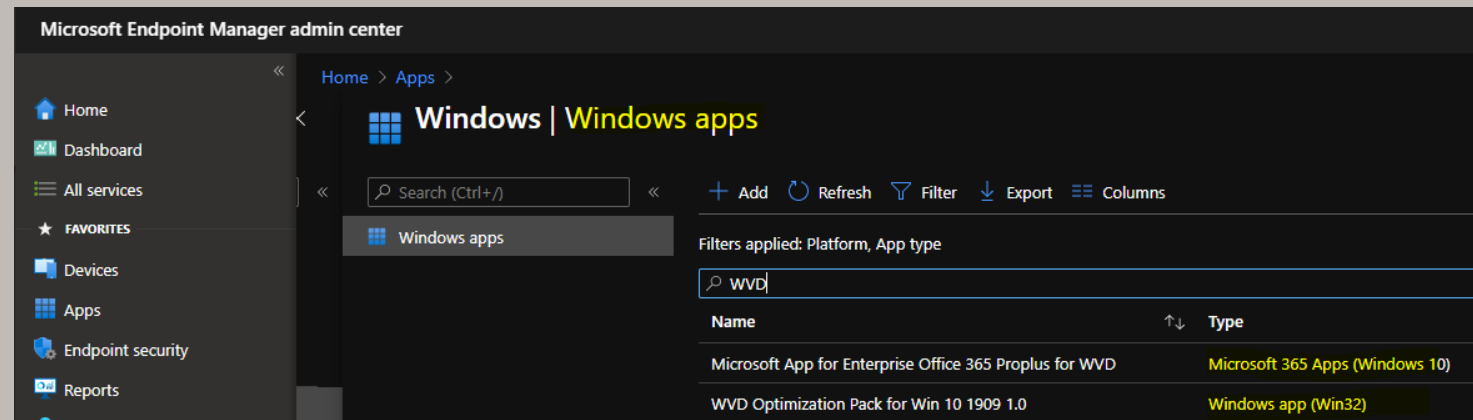
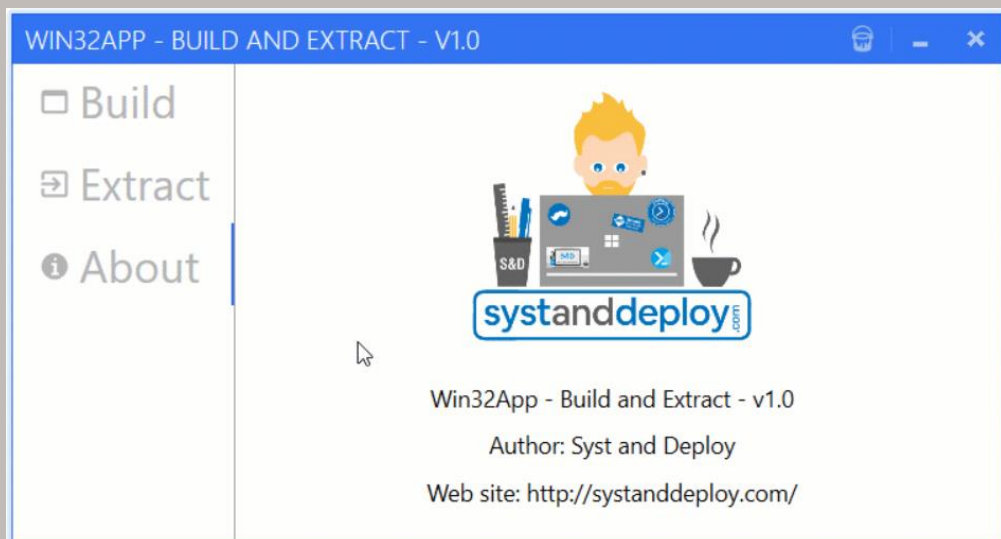


Intune Filters

- Create Intune Filters for multi session and single session scenarios

Application Deployment

- Device based application deployment can improve the user experience.
- Try to customize VDI optimization script before deploying.
 - Don't disable Microsoft store services.
 - Review and validate VDI optimization script for each version of Windows 10.
- Deploy Win32 Apps using Intune.
- Complex Apps need to be converted (zipped) to **Intune win32 format**
 - Conversion Tool created by Damien Van Robaeys [MVP] <http://www.systanddeploy.com/2020/11/intune-win32app-tool-create-and-extract.html>



Security Policies

- Moving away from Group policy
- National Cyber Security Center NCSC.gov.uk Guideline for MDM **security baseline** using CSPs
 - <https://www.ncsc.gov.uk/collection/end-user-device-security/platform-specific-guidance/windows-10-1803-with-mobile-device-management>
- Security Policies should be deployed either using
 - Intune Setting catalog (Preferred for WVD)
 - Security Baselines (?)
- Device based deployment of security policies

Home > Devices > Windows

Windows | Configuration profiles

«
+ Create profile
≡ Columns
↺ Refresh
↓ Export
⌵ Filter

Windows devices

Windows enrollment

Windows policies

Compliance policies

Configuration profiles

PowerShell scripts

Windows 10 update rings

Profile Name	Platform	Profile Type
WVD Device Security Account Hardening	Windows 10 and later	Administrative Template
WVD Edge Chromium Device Security	Windows 10 and later	Administrative Template
WVD Edge Chromium User Based Security	Windows 10 and later	Administrative Template
WVD Office Device Security Policies	Windows 10 and later	Administrative Template
WVD Office User Based Security Policies	Windows 10 and later	Administrative Template

Patching & Windows 10 Upgrade

- Monthly **Patching** is managed via Windows Update for Business (**WUfB**) policies.
- Windows 10 **Upgrade** policies are configured through WUfB **feature update** policies*.
- Use Device based groups for the policy deployment.

* Single Session

The screenshot displays the Microsoft Intune console interface. On the left is a navigation pane with options: Home, Dashboard, All services, FAVORITES, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support. The main area shows the breadcrumb 'Home > Devices > Windows' and the title 'Windows | Windows 10 update rings'. Below this is a search bar and a toolbar with 'Create profile', 'Refresh', 'Columns', 'Filter', and 'Export'. A list of 'Windows policies' is shown on the left, with 'Windows 10 update rings' selected. The main content area shows a table of update rings.

Name	Feature Deferral	Quality Deferral	Feature
Windows 10 Monthly Patches	365	7	Running

Enrollment Experience

Host pools

Create Manage view

Filter for any field...

Name ↑↓

HTMD

Namaste



Namaste | Session hosts

Host pool

Search (Ctrl+ /)

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

RDP Properties

Properties

Locks

Manage

Application groups

MSIX packages

Session hosts

+ Add

Refresh

Assign

Export to CSV

Turn drain mode



If you have assigned a user group to the Desktop App Group, all members of that group will be assigned to the VMs in automatic assignment mode or assign VMs to all of them. [Learn more](#)

Filter by Name

Status: 12 selected



Name ↑↓

Status ↑↓

Drain mode ↑↓

Assigned User



Namaste-0.memcm.co... Available

Off

(Assign)



New AVD VM
Not Assigned
to Any User

Search (Ctrl+/) « Refresh

Search by application, resolved intent or installation status

Application	Version	Resolved intent	Installation status
MS Teams for Windows 10		Required install	Waiting for install status
Copy MSI to Cloud Win10		Required install	Installed
Google Chrome	67.208.87	Required install	Installed
Restart IME Service	1.0.7	Required install	Installed
Microsoft App for Enterprise Office 365 Proplus for WVD		Required install	Installed

Overview

Manage

Properties

Monitor

- Hardware
- Discovered apps
- Device compliance
- Device configuration
- App configuration
- Endpoint security configuration
- Recovery keys
- User experience
- Device diagnostics (preview)
- Managed Apps
- Filter evaluation (preview)

Applications assigned to Devices Installed before
Users First login

Microsoft Endpoint Manager admin center

Home

Dashboard

All services

FAVORITES

Devices

Apps

Endpoint security

Reports

Users

Groups

Tenant administration

Troubleshooting + support

Home > Devices > Windows > Namaste-0

Namaste-0 | Device configuration

Search (Ctrl+/)

Export

Search by policy or state

Policy	User Principal Name	State
Disable ESP	System account	Succeeded
WVD Edge Chromium Device Security	System account	Succeeded
WVD Edge Chromium User Based Security	None	Pending
WVD Start Menu Config	System account	Succeeded

Overview

Manage

Monitor

Properties

Hardware

Discovered apps

Device compliance

Device configuration

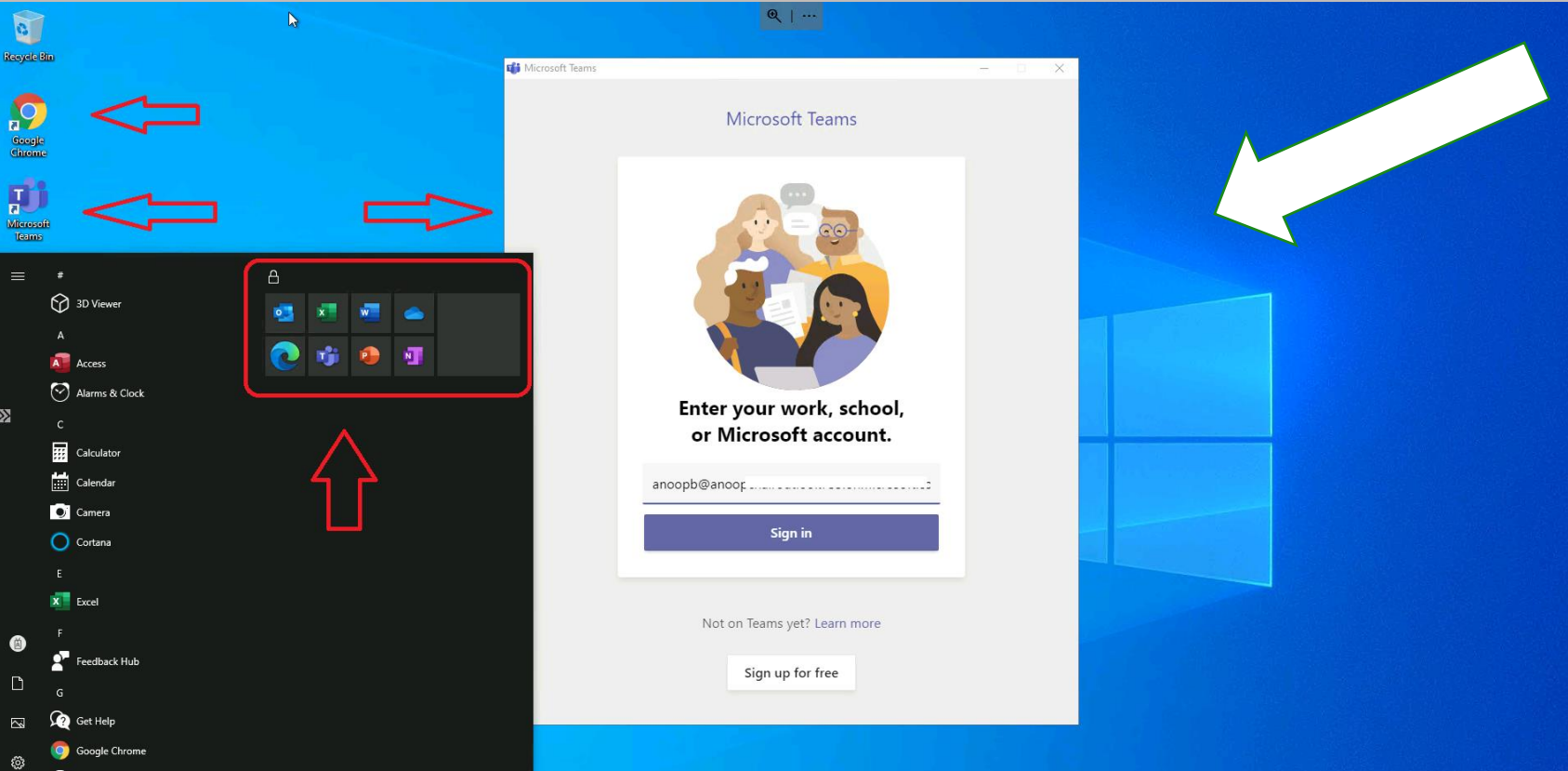
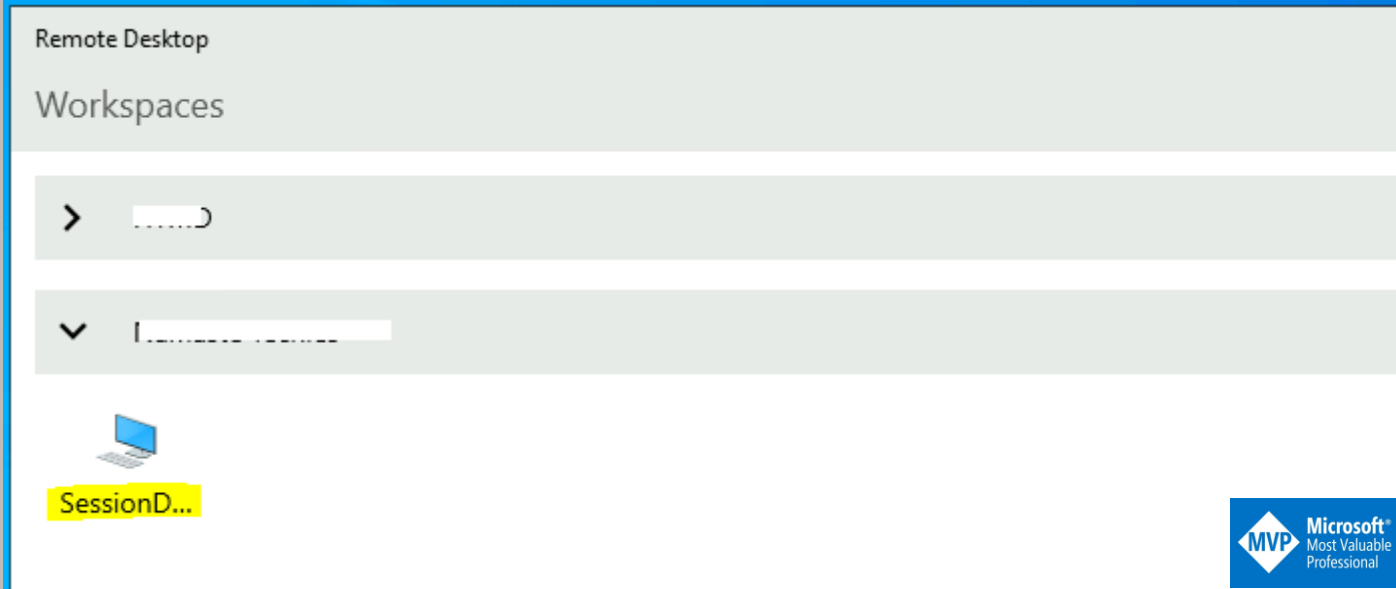
App configuration

Endpoint security configuration

Recovery keys

Policies assigned to Devices are Installed before Users First login. User assigned policies are pending!

First Login



- All device-based apps & policies are Ready to use immediately after first login.**
- All user-based apps & policies will get applied/installed within 10 minutes*.

* * Microsoft store apps/User based installs could take some more time

*Only applicable Single Session

Virtual Desktop | Host pools

[+ Create](#) [Manage view](#)

Filter for any field...

Name

HTMD

Multi

Namaste

HTMD | Session hosts

Host pool

Search (Ctrl+/)

[+ Add](#) [Refresh](#) [Assign](#) [Export to CSV](#) | ☒ Turn drain mode on ☐ Turn drain mode off Remove

If you have assigned a user group to the Desktop App Group, all members of that group will see the VM in the feed but will not be able to access a VM unless you move to automatic assignment mode or assign VMs to all of them. [Learn more](#)

Filter by Name

Status: 12 selected

Drain mode: 2 selected

<input type="checkbox"/> Name	Status	Drain mode	Assigned User	Active ses...	Resource gro...	Location	Subscription
<input type="checkbox"/> Namaste1-0.memcm.c...	Available	Off	(Assign)	0	WVD	East US 2	Microsoft Azure

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- RDP Properties
- Properties
- Locks

Manage

- Application groups
- MSIX packages
- Session hosts

Monitoring

- Diagnostic settings
- Logs

Automation

- Tasks (preview)
- Export template

Support + troubleshooting

[New support request](#)

Resources

- <https://www.anoopcnaair.com/azure-virtual-desktop-end-user-experience-intun/>
- [Using Azure Virtual Desktop with Microsoft Intune | Microsoft Docs](#)
- [Azure Virtual Desktop documentation](#)
- [AVD - How To Manage Devices \(anoopcnaair.com\)](#)