WINDOWS SERVER 2019

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INSTALLATION

- Core only is 8GB in side
- Desktop experience is “usual” windows size
- Core Fits nicely onto a USB stick (Hyper-V only)
- Works with 2012-R2 WDS (needs a new boot loader)

NEW FEATURES!!

- Migration of clusters between domains
- Kubernetes
- Defender Access Control Policies
- WinRM Enhancements
- Storage Replica in standard edition
- Storage migration wizard
- Cluster Sets
- Windows subsystem for Linux

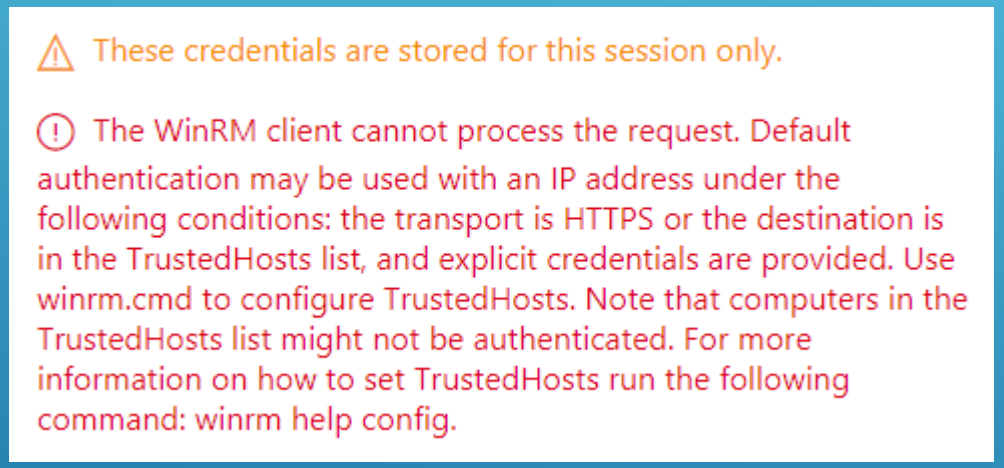
LICENSING

- Same as 2016
- Per core licensing with a server requiring a minimum of 16 cores
- Two VM’s on a standard licence/Unlimited on DC
- Unlimited containers
- Two versions? Standard and datacentre?

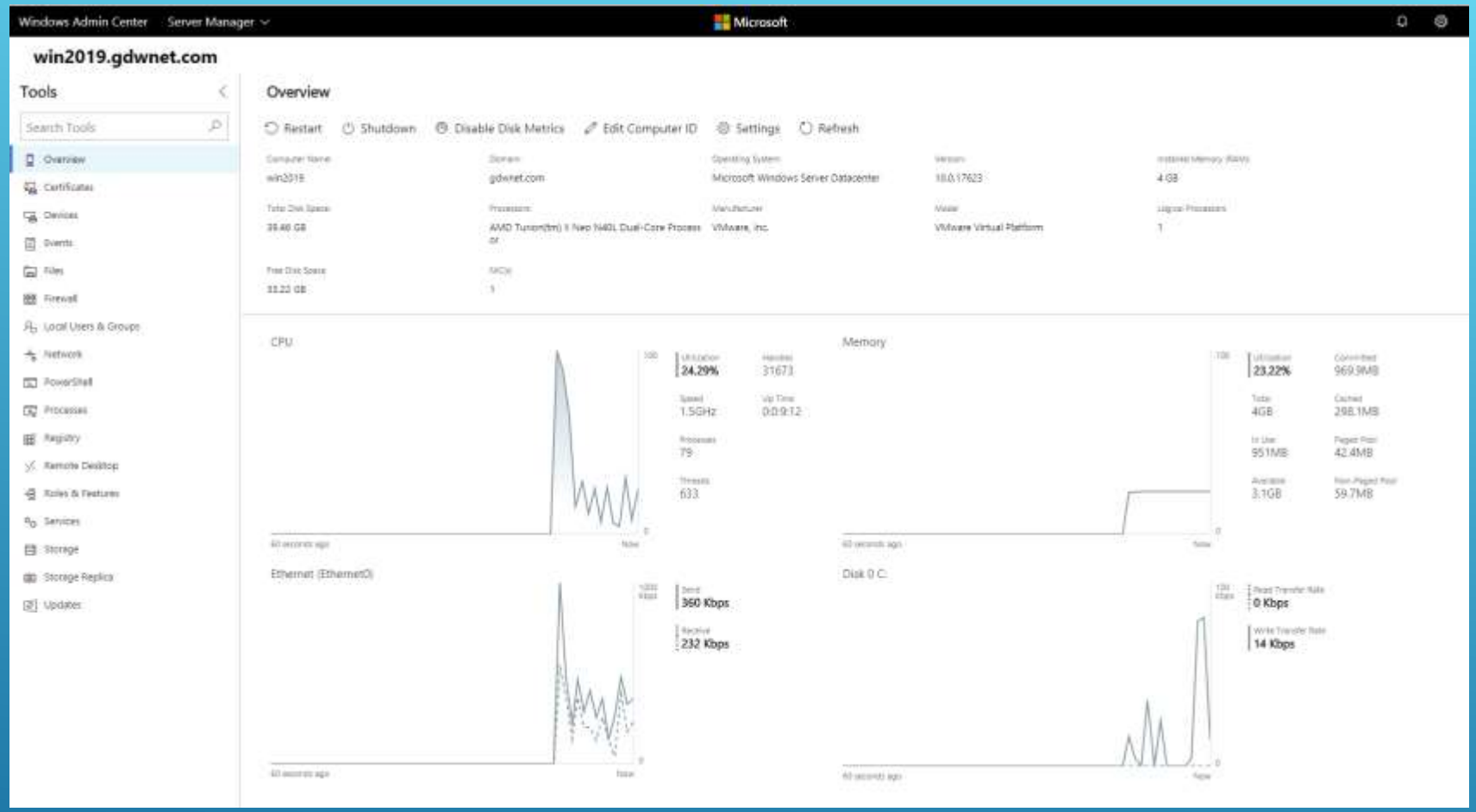
DEPLOYMENT

- Uses WIM files same as 2012 and 2016
- Will work in a 2012, 2012 R2 or a 2016 WDS server, the boot file needs to be updated
- Existing unattend files should also work

WINRM/PS REMOTING



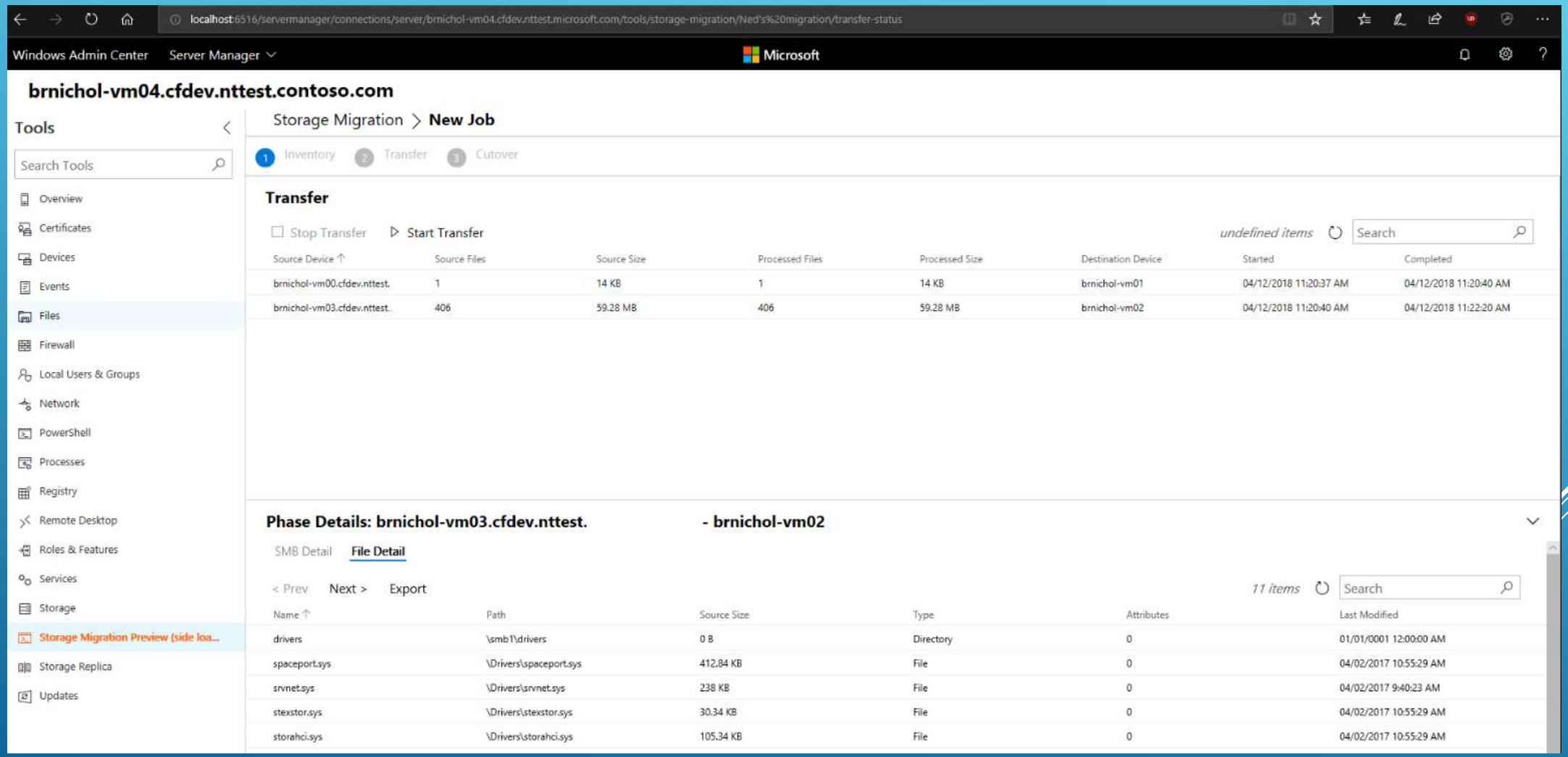
- Doesn’t seem to like IP Address
- Make sure your DNS is clean
- Ensure WINRM ports are open
- Use WINRM troubleshooting to test

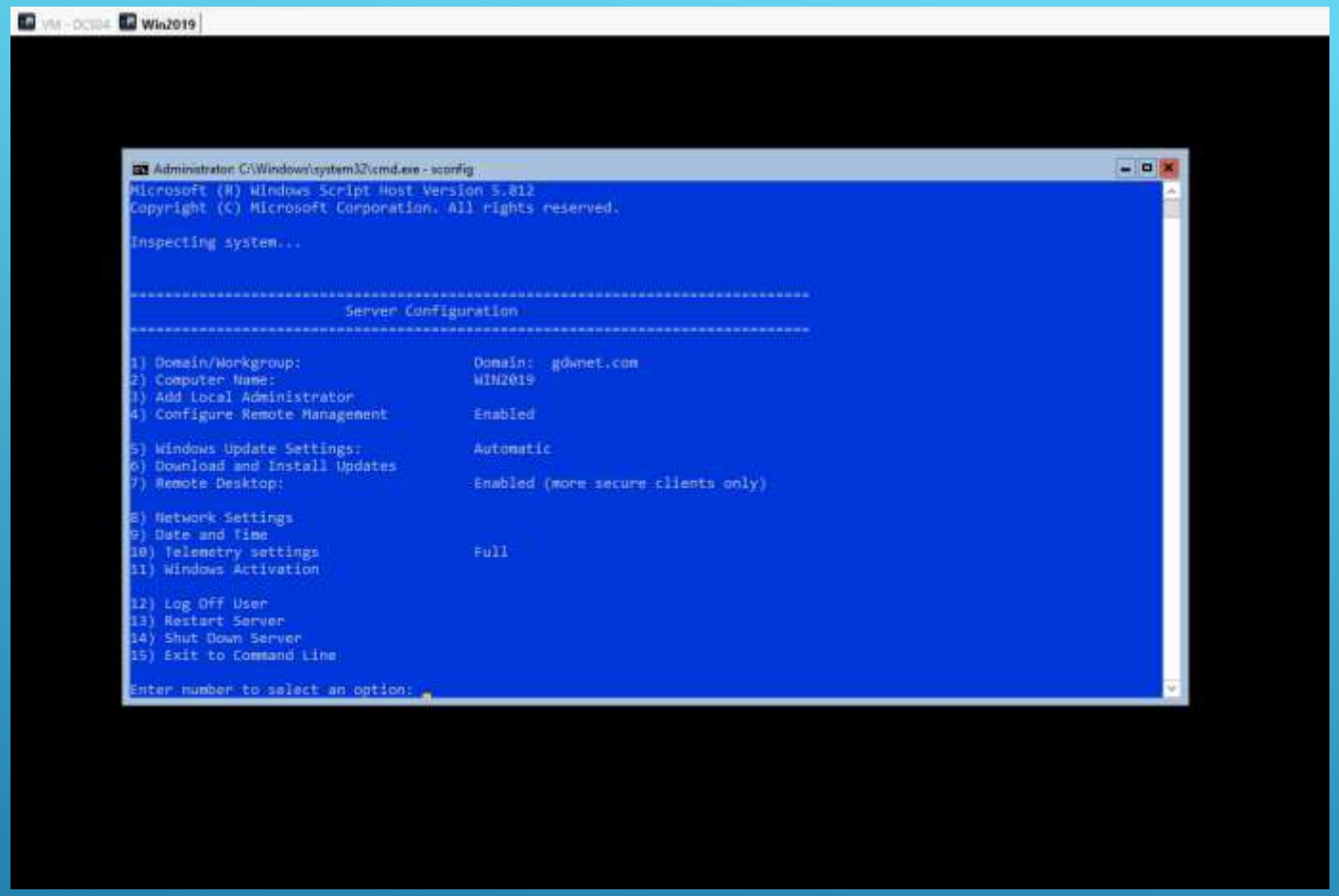


WINDOWS ADMIN CENTRE

- Windows Admin is formally Project Honolulu
- UK date formats coming in June!
- Supports Tags
- LAPS makes it easier

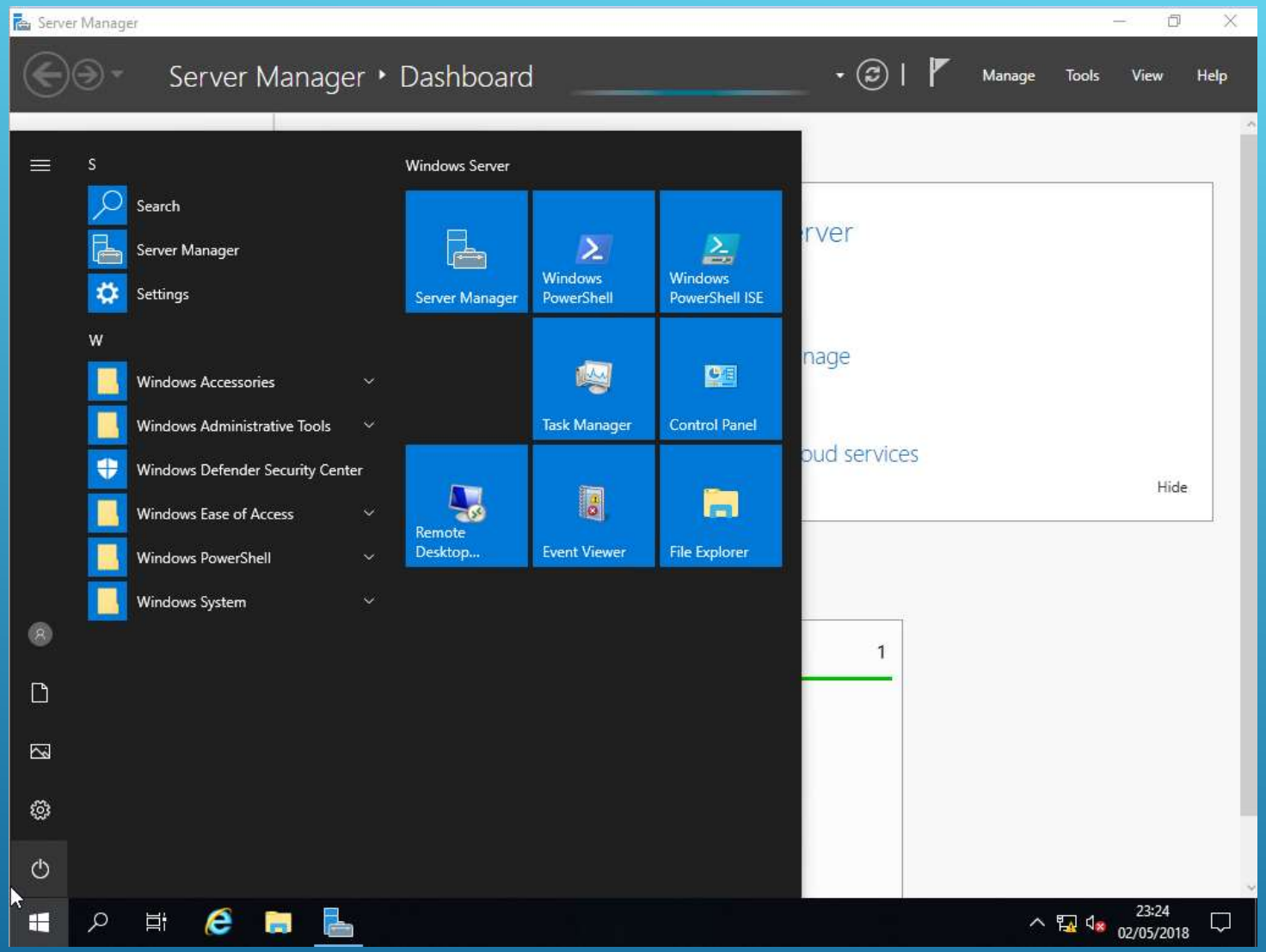
STORAGE MIGRATION WIZARD





CORE INSTALL

- Emphasis is on remote management
- Windows Admin Centre
- RSAT
- WINRM/Powershell
- Sconfig still works!



GUI INSTALL

- Introduced in April 24th release
- Build 17650
- Much like Windows 2016
- GUI is really for legacy apps

ACTIVE DIRECTORY

- Blockchain auth(?)
- Does not support FRS for SYSVOL so you must use DFSMIG to migrate to DFS-R

- Still on 2003?

  "For customers who need additional time to evaluate moving their DFL & FFL from 2003, the 2003 DFL and FFL will continue to be supported with Windows 10 and Windows Server 2016 **provided all domain controllers in the domain and forest are either on Windows Server 2008, 2012 or 2016**."

HYPER-V

- Improvements to shielded VM's – Linux will be supported
- Encrypted replication improvements
- Encrypted network segments at the vswitch level

MICROSERVICES

- 2019 has a Kubernetes deployable feature
- Container support has been improved since 2016
- Windows sub system for linux means windows AND linux containers on the same host
- Smaller windows containers – from 10GB to 2GB
- Containers still use Hyper-V architecture for container networking
- It's still early days for Kubernets so ***watch this space***

DEFENDER ATP

- Cloud behaviour analytics
- More than just AV
- Policy driven via Powershell

Links:

Windows Admin Centre -> https://docs.microsoft.com/en-us/windows-server/manage/windows-admin-center/deploy/install

WinRM quick guide -> https://blogs.technet.microsoft.com/askperf/2010/09/24/an-introduction-to-winrm-basics/

Thanks!

Any questions?