

# WINDOWS SERVER 2019


Twitter: @garyw\_

Web: [www.gdwnet.com](http://www.gdwnet.com)

# INSTALLATION


- ▶ Core only is 8GB in size
- ▶ 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
- 
- Several white lines of varying lengths and orientations are positioned in the bottom right corner of the slide, creating a modern, abstract graphic element.



# DEPLOYMENT

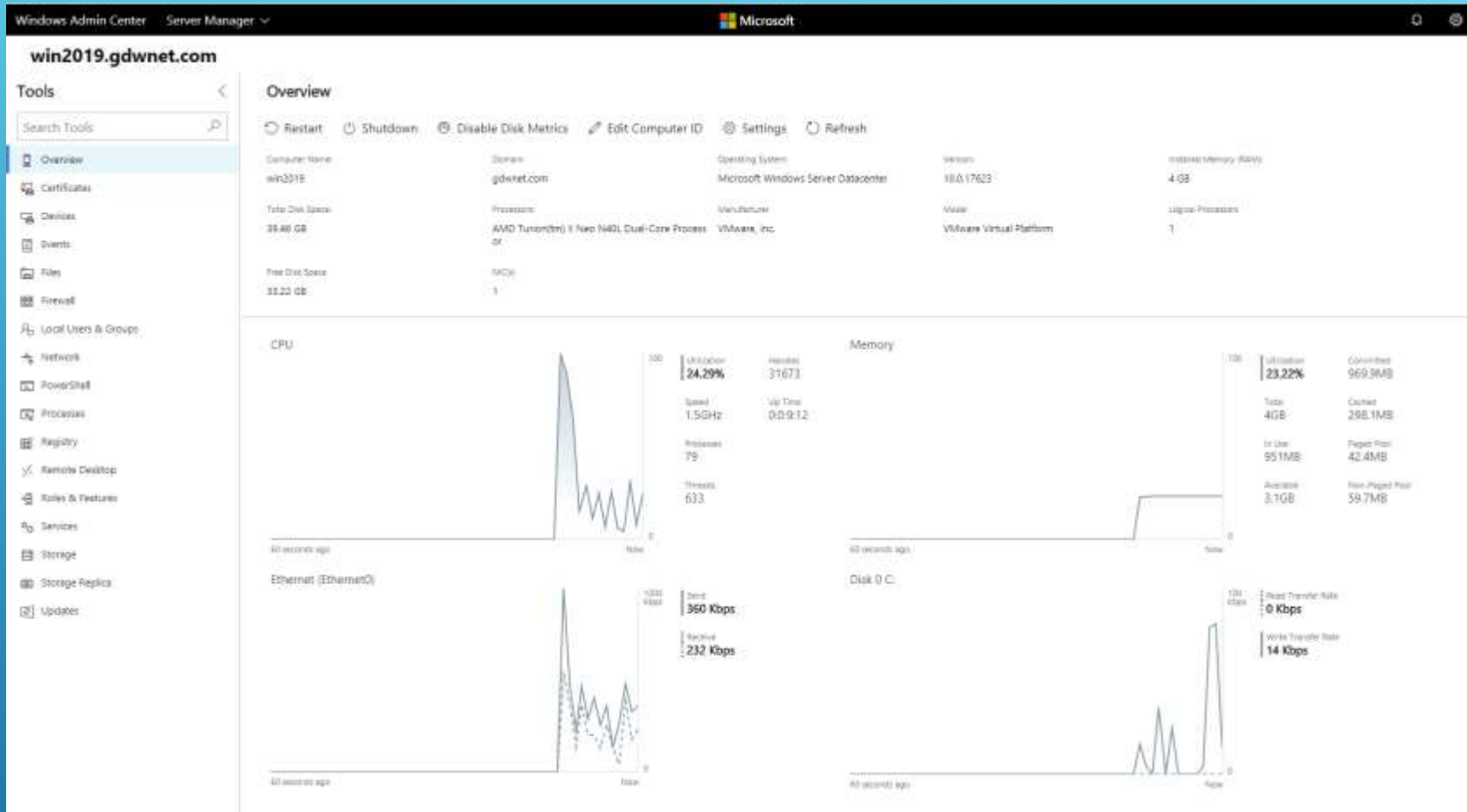
- ▶ Uses WIM files same as 2012 and 2016
  - ▶ Will work in a 2012, 2012 R2 or a 2016 WDS server, the boot file needs to be updated
  - ▶ Existing unattend files should also work
- 
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# WINRM/PS REMOTING

⚠ These credentials are stored for this session only.

❗ The WinRM client cannot process the request. Default authentication may be used with an IP address under the following conditions: the transport is HTTPS or the destination is in the TrustedHosts list, and explicit credentials are provided. Use `winrm.cmd` to configure TrustedHosts. Note that computers in the TrustedHosts list might not be authenticated. For more information on how to set TrustedHosts run the following command: `winrm help config`.

- 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

localhost:6516/servermanager/connections/server/brnichol-vm04.cfdev.nttest.microsoft.com/tools/storage-migration/Ned's%20migration/transfer-status

Windows Admin Center Server Manager Microsoft

## brnichol-vm04.cfdev.nttest.contoso.com

Tools

Search Tools

- Overview
- Certificates
- Devices
- Events
- Files
- Firewall
- Local Users & Groups
- Network
- PowerShell
- Processes
- Registry
- Remote Desktop
- Roles & Features
- Services
- Storage
- Storage Migration Preview (side loa...**
- Storage Replica
- Updates

### Storage Migration > New Job

1 Inventory 2 Transfer 3 Cutover

#### Transfer

☐ Stop Transfer ☒ Start Transfer

undefined items Search

Source Device ↑	Source Files	Source Size	Processed Files	Processed Size	Destination Device	Started	Completed
brnichol-vm00.cfdev.nttest.	1	14 KB	1	14 KB	brnichol-vm01	04/12/2018 11:20:37 AM	04/12/2018 11:20:40 AM
brnichol-vm03.cfdev.nttest.	406	59.28 MB	406	59.28 MB	brnichol-vm02	04/12/2018 11:20:40 AM	04/12/2018 11:22:20 AM

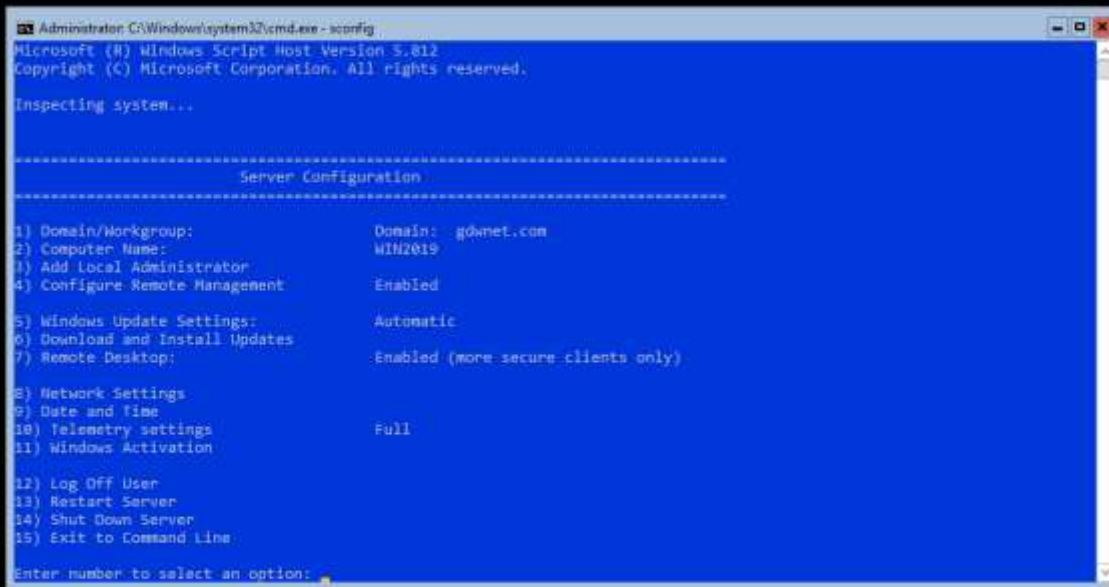
#### Phase Details: brnichol-vm03.cfdev.nttest. - brnichol-vm02

SMB Detail File Detail

< Prev Next > Export

11 items Search

Name ↑	Path	Source Size	Type	Attributes	Last Modified
drivers	\\smb1\drivers	0 B	Directory	0	01/01/0001 12:00:00 AM
spaceport.sys	\\Drivers\spaceport.sys	412.84 KB	File	0	04/02/2017 10:55:29 AM
srvmnet.sys	\\Drivers\srvmnet.sys	238 KB	File	0	04/02/2017 9:40:23 AM
stexstor.sys	\\Drivers\stexstor.sys	30.34 KB	File	0	04/02/2017 10:55:29 AM
storahci.sys	\\Drivers\storahci.sys	105.34 KB	File	0	04/02/2017 10:55:29 AM



```
Administrator: C:\Windows\system32\cmd.exe - sconfig
Microsoft (R) Windows Script Host Version 5.812
Copyright (C) Microsoft Corporation. All rights reserved.

Inspecting system...

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Server Configuration
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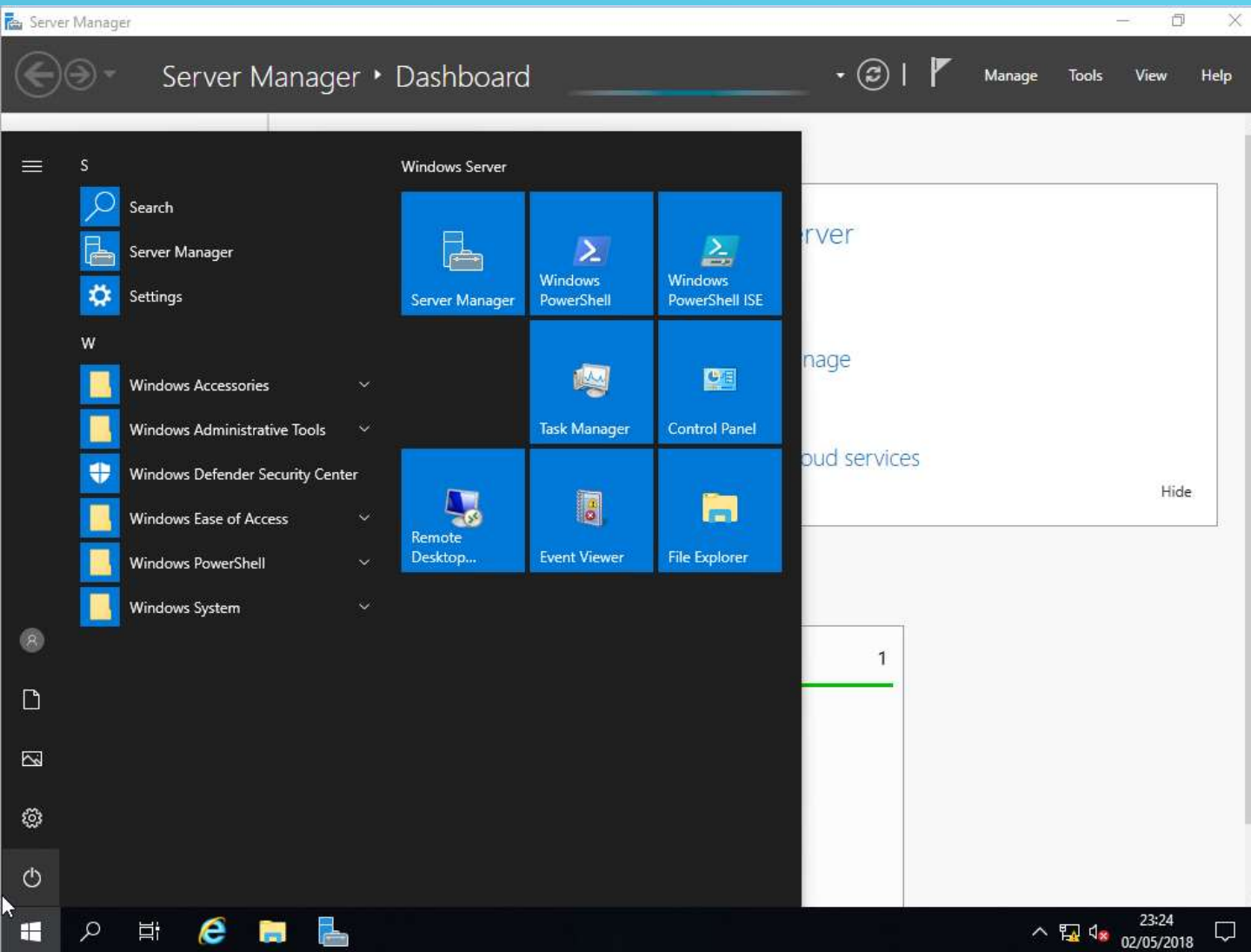
1) Domain/Workgroup:      Domain: gdownet.com
2) Computer Name:        WIN2019
3) Add Local Administrator
4) Configure Remote Management: Enabled
5) Windows Update Settings: Automatic
6) Download and Install Updates
7) Remote Desktop:       Enabled (more secure clients only)
8) Network Settings
9) Date and Time
10) Telemetry settings    Full
11) Windows Activation
12) Log Off User
13) Restart Server
14) Shut Down Server
15) Exit to Command Line

Enter number to select an option: 
```

## CORE INSTALL

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





# GUI INSTALL

- Introduced in April 24<sup>th</sup> 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.**"







## 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/>

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Thanks!

Any questions?

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