STACKFULL SOTWARE

IT – Pre Onboarding Runbook

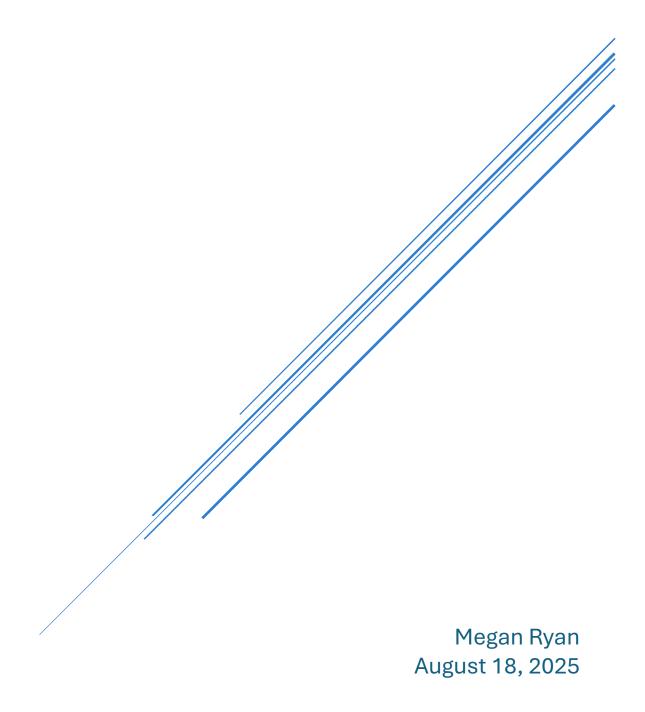


Table of Contents

INTRODUCTION	3
STEP 0 — FIX: POINT CLIENT DNS TO THE DOMAIN CONTROLLER WINDOWS DOMAIN JOIN REQUIRES THE	
CLIENT TO USE THE DOMAIN CONTROLLER (DC) AS DNS SO IT CAN RESOLVE THE DOMAIN AND LOCATE AD SERVICES	4
STEP 1 — VERIFY CONNECTIVITY & NAME RESOLUTION	5
STEP 2 — JOIN DESKTOP-1 TO THE DOMAIN	5
NOTES & TROUBLESHOOTING	7
STEP 3 — CREATE DEPARTMENT GROUP AND ADD THE NEW HIRE	7
3.0 CREATE THE NEW-HIRE USER (SERVER)	7
3.1 CREATE THE DEPARTMENT GROUP (SERVER)	8
3.2 ADD THE NEW HIRE TO HR_DEPARTMENT (SERVER)	8
3.3 VERIFY MEMBERSHIP ON THE USER OBJECT (SERVER)	9
STEP 4 — CREATE A DEPARTMENT SHARE WITH READ/WRITE (HR)	.10
4.1 CREATE THE FOLDER STRUCTURE	.10
4.2 SET NTFS (SECURITY) PERMISSIONS	.10
4.3 PUBLISH THE SMB SHARE (SHARE PERMISSIONS)	.11
4.4 CREATE SEED FILE FOR LATER VALIDATION	.12
4.5 VERIFY THE SHARE IS PUBLISHED (COMPUTER MANAGEMENT MMC)	.13
STEP 5 — CREATE AN OU AND LINK A GPO	.13
5.1 CREATE THE OU	13
5.2 MOVE THE USER, GROUP, AND COMPUTER INTO THE OU	. 14
5.3 CREATE AND LINK A GPO TO THE OU	. 15
STEP 6 — EDIT THE HR_POLICIES GPO AND APPLY RULES	.16
6.1 CONFIGURE THE LOGON BANNER (STARTUP MESSAGE)	. 17
6.2 BLOCK COMMAND PROMPT (WITHOUT BREAKING LOGON SCRIPTS)	. 18
6.3 — Map the HR share at user logon (Drive Maps, no scripts)	.18
6.4 — REMOVE THE "RUN" COMMAND FROM START	.19
Apply & test (Client)	.20
STEP 7 — FIND THE LAST SUCCESSFUL LOGON FOR YOUR USER (ON THE SERVER)	.20

7.1 OPEN THE SECURITY LOG	21
7.2 FILTER TO SUCCESSFUL LOGONS (EVENT ID 4624)	21
7.3 FIND YOUR SPECIFIC USER (FAST)	22
7.4 READ THE DETAILS YOU NEED	23
STEP 8	23
8.1 Open PowerShell	23
8.2 WMI	24
COMMAND (TYPE EXACTLY): GET-CIMINSTANCE WIN32_PRODUCT SORT-C	DBJECT INSTALLDATE -DESCENDING SELECT-
OBJECT -FIRST 1 NAME, VERSION, VENDOR, INSTALL DATE	24
OUTPUT:	24
STEP 9 — LIST ALL RUNNING SERVICES TO A FILE	25
9.1 RUN THE COMMAND	25

INTRODUCTION

This runbook defines the **pre-onboarding build** for Windows workstations at StackFull Software. Its purpose is to take a fresh client from "workgroup and unknown" to a **managed**, **compliant**, **and ready-for-day-one** state—joined to the **contoso.com** domain, governed by baseline security policy, and provisioned with the resources a new hire needs. The procedures standardize setup, reduce lead time for IT, and cut risk by enforcing least-privilege access and auditable controls from the first login.

The workflow implements four pillars of control:

- 1. **Identity & Join:** Bind the device to Active Directory, place it in the correct **OU** (HR_OU), and ensure the right **user** (Jordan Smaih / jsmaih) and **group** (HR_Department) relationships exist.
- 2. Access & Data: Publish a departmental share (HRShare) with aligned share + NTFS permissions (read/write for HR only), and auto-map it at logon.
- 3. **Policy & Hardening:** Apply a GPO (**HR_Policies**) that shows an interactive **logon banner**, **blocks CMD** for users, **removes Run**, and maps the **H:** drive—delivering consistent posture with minimal manual touch.
- 4. **Audit & Evidence:** Validate logons in **Event Viewer** (4624), confirm installed software and running services via **PowerShell**, and capture screenshots as evidence.

Scope & Outcomes

After completing this runbook, the target workstation will:

- Be joined to **contoso.com** and located in **HR OU** with the correct security scope.
- Enforce baseline user restrictions (no CMD, Run removed) and display the standard legal banner.
- Map H: to \\172.31.42.153\\HRShare for HR staff with appropriate write access.
- Produce verifiable artifacts: Security log entries (ID 4624), "latest installed program" output, and running services.txt.

Assumptions & Prerequisites

- **Domain Controller/DNS:** 172.31.42.153 (AD DS + DNS healthy; server uses itself as DNS).
- **Domain:** contoso.com; admin credentials available (Administrator / Pa\$\$w0rd for lab).
- Client: Windows desktop with IPv4 Preferred DNS set to the DC IP.
- You have rights to create users, groups, OUs, shares, and GPOs in the lab.

Evidence & Documentation

Each major step includes a screenshot placeholder. Capture evidence on the client and server as indicated (join confirmations, GPO links, drive map, policy effects, Event Viewer 4624, PowerShell outputs). These artifacts demonstrate control ownership and are suitable for audit or peer review.

ENVIRONMENT SUMMARY

- Domain: contoso.com
- Domain Controller/DNS IP: 172.31.42.153
- Admin credentials used to join domain: administrator / Pa\$\$w0rd
- Client: Desktop-1 (Windows)

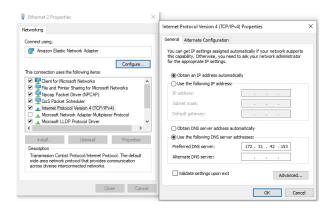
STEP 0 — FIX: POINT CLIENT DNS TO THE DOMAIN CONTROLLER

Windows domain join requires the client to use the Domain Controller (DC) as DNS so it can resolve the domain and locate AD services.

PROCEDURE (DESKTOP-1)

- 1. Open Control Panel \rightarrow Network and Sharing Center \rightarrow Change adapter settings.
- Right-click the active adapter → Properties → select Internet Protocol Version 4 (TCP/IPv4) → Properties.
- 3. Select "Use the following DNS server addresses" and set Preferred DNS to 172.31.42.153.
- 4. Click OK to apply.

Figure 1: Client DNS set to the Domain Controller (172.31.42.153) on Desktop-1.



STEP 1 — VERIFY CONNECTIVITY & NAME RESOLUTION

COMMANDS EXECUTED (REFERENCE)

- ping 172.31.42.153
- nslookup contoso.com

EXPECTED RESULTS

- ping replies from 172.31.42.153 (0% loss acceptable).
- nslookup contoso.com resolves to the DC/DNS and shows the DC as the Server.

```
### Address PowerShell

Imporright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

S C:\Users\fstack.DESKTOP-612SMII> ping 172.31.42.153

Pinging 172.31.42.153 with 32 bytes of data:
Reply from 172.31.42.153: bytes=32 time(1ms TTL=128
Reply from 172.31.42.153
Reply
```

Figure 2: Connectivity and name resolution successful (ping to DC and nslookup contoso.com).

STEP 2 — JOIN DESKTOP-1 TO THE DOMAIN

PROCEDURE (DESKTOP-1)

- Right-click This PC → Properties → Advanced system settings → Computer Name → Change.
- 2. Under "Member of," choose Domain and enter: contoso.com
- 3. When prompted, provide domain admin credentials:
 - Username: administrator
 - Password: Pa\$\$w0rd
- 4. Accept the confirmation dialog and restart when prompted.

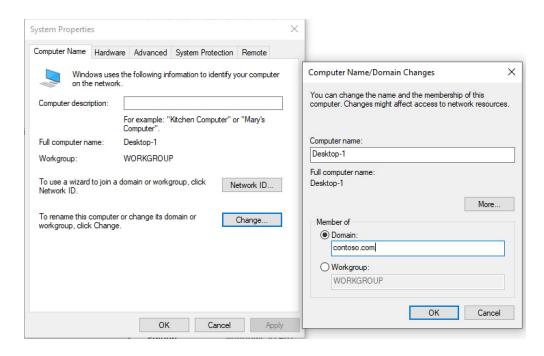


Figure 3: Join dialog showing Desktop-1 joining the domain: contoso.com

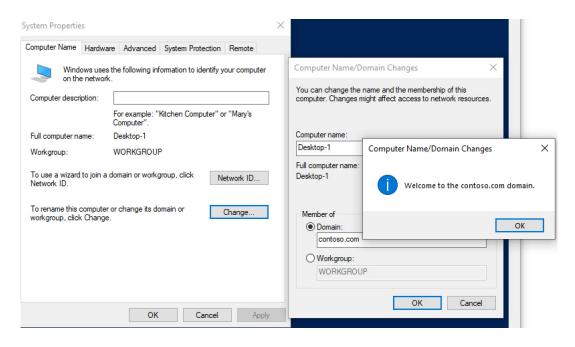


Figure 4: Success dialog — "Welcome to the contoso.com domain."

NOTES & TROUBLESHOOTING

- If you see "An Active Directory Domain Controller for the domain could not be contacted," recheck:
- Client DNS points to the DC (not public DNS).
- Network connectivity to the DC (same network/segment, no firewall blocking).
- The DC is running AD DS and DNS services.

STEP 3 — CREATE DEPARTMENT GROUP AND ADD THE NEW HIRE

GOAL

Create a Global Security group for the department and add the new-hire account to it.

3.0 CREATE THE NEW-HIRE USER (SERVER)

- 1. Server Manager \rightarrow Tools \rightarrow Active Directory Users and Computers (ADUC).
- 2. Expand contoso.com \rightarrow Users.
- 3. Right-click Users \rightarrow New \rightarrow User.
- 4. Fill in:
 - First name: JordanLast name: Smith
 - User logon name (UPN): jsmith@contoso.com
 - (sAMAccountName should be jsmith)
- Password: Pa\$\$word123 (you may uncheck "User must change password at next logon" for lab).
- 6. Finish. Verify the account exists in Users.



Figure 5: New user wizard — Jordan Smith (ismith) created in ADUC.

3.1 CREATE THE DEPARTMENT GROUP (SERVER)

1. In contoso.com \rightarrow Users, right-click \rightarrow New \rightarrow Group.

2. Group name: HR Department

3. Group scope: Global4. Group type: Security

5. OK.

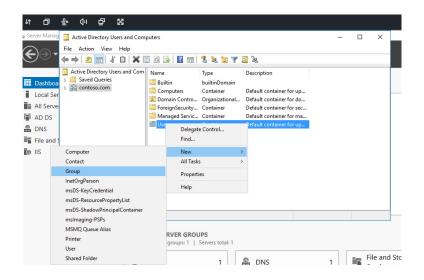


Figure 6: HR_Department Global Security group created under Users

3.2 ADD THE NEW HIRE TO HR_DEPARTMENT (SERVER)

- 1. HR Department → Properties → Members → Add...
- 2. Locations... = contoso.com; Object Types... includes Users.
- 3. Enter jsmith (or contoso\jsmith) \rightarrow Check Names \rightarrow OK.
- 4. Confirm Jordan Smith (jsmith) appears \rightarrow Apply \rightarrow OK.

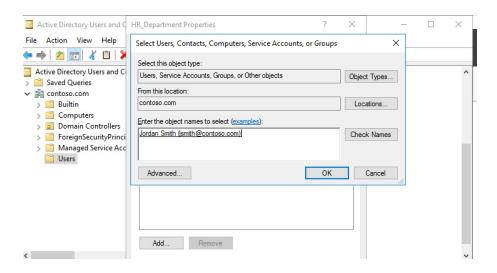


Figure 7: HR_Department — Members tab showing Jordan Smith (jsmith) added.

3.3 VERIFY MEMBERSHIP ON THE USER OBJECT (SERVER)

- 1. Right-click Jordan Smith \rightarrow Properties \rightarrow Member Of.
- 2. Confirm HR_Department is listed.

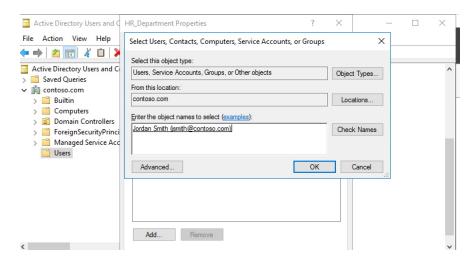


Figure 8: Jordan Smith — Member Of tab includes HR_Department

STEP 4 — CREATE A DEPARTMENT SHARE WITH READ/WRITE (HR)

GOAL

Create a departmental network share for HR that only members of HR_Department can read/write, and add a seed file test.txt.

WHERE

Server (Domain Controller)

4.1 CREATE THE FOLDER STRUCTURE

1. File Explorer → create C:\Shares\HR.

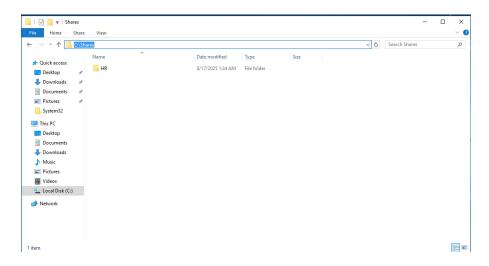


Figure 9: Department folder created at C:\Shares\HR on the server

4.2 SET NTFS (SECURITY) PERMISSIONS

- 1. Right-click C:\Shares\HR \rightarrow Properties \rightarrow Security \rightarrow Edit.
- 2. Remove broad principals you don't want (e.g., Users if present).
- 3. Add CONTOSO\HR_Department with Modify, Read & execute, List folder contents, Read, Write (i.e., Modify).
- 4. Ensure Administrators and SYSTEM retain Full control. Apply \rightarrow OK.

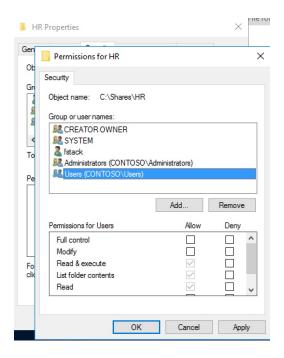


Figure 10: NTFS permissions — HR_Department has Modify; Administrators/SYSTEM have Full control.

4.3 PUBLISH THE SMB SHARE (SHARE PERMISSIONS)

- 1. C:\Shares\HR \rightarrow Properties \rightarrow Sharing \rightarrow Advanced Sharing.
- 2. Check "Share this folder"; Share name: HRShare.
- 3. Permissions: Remove Everyone; Add CONTOSO\HR_Department with Change and Read (no Full Control).
- 4. OK all dialogs.

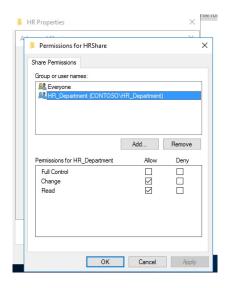


Figure 11: Sharing tab — HRShare created for C:\Shares\HR.

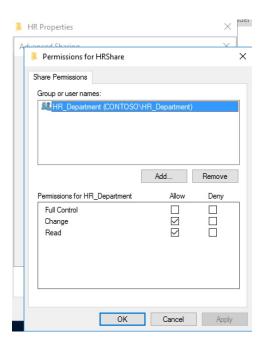


Figure 12: Figure 4.4: Share permissions — only HR_Department with Change + Read (no Everyone).

4.4 CREATE SEED FILE FOR LATER VALIDATION

- 1. Open C:\Shares\HR.
- 2. New \rightarrow Text Document \rightarrow test.txt.
- 3. Add a one-liner (e.g., "HR seed file") and save.

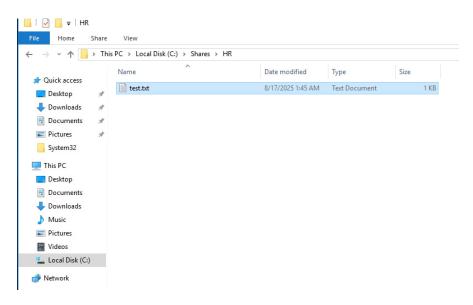


Figure 13: test.txt created inside C:\Shares\HR.

4.5 VERIFY THE SHARE IS PUBLISHED (COMPUTER MANAGEMENT MMC)

- 1. Server Manager \rightarrow Tools \rightarrow Computer Management.
- 2. System Tools → Shared Folders → Shares.
- Confirm HRShare → Local Path shows C:\Shares\HR.

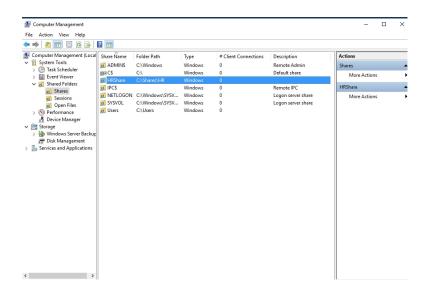


Figure 14: Computer Management — Shared Folders \rightarrow Shares shows HRShare \rightarrow C:\Shares\HR.

STEP 5 — CREATE AN OU AND LINK A GPO

Goal

Create an Organizational Unit (OU) for the department, move the user, group, and computer into it, and **link a new GPO** that we'll configure in Step 6.

Where

Server (Domain Controller)

5.1 Create the OU

- 1. Open Active Directory Users and Computers (ADUC)
 - Server Manager → Tools → Active Directory Users and Computers
- 2. In the left pane, right-click the domain contoso.com → New → Organizational Unit.
- 3. Name: HR_OU
- 4. Leave "Protect container from accidental deletion" checked (recommended).
- 5. Click OK.

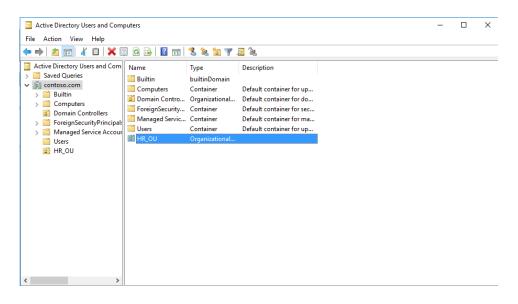


Figure 15: HR_OU created under the contoso.com domain in ADUC.

5.2 Move the User, Group, and Computer into the OU

We previously created:

- User: Jordan Smith (jsmith) currently under Users
- **Group:** HR Department currently under **Users**
- **Computer:** DESKTOP-1 typically under **Computers**

Move via ADUC (drag-and-drop):

- 1. In ADUC, expand **contoso.com** and select the source containers:
 - Users (for jsmith and HR_Department)
 - Computers (for DESKTOP-1)
- 2. Drag each object into HR_OU.
- 3. If you see an error like "Access is denied", right-click the object \rightarrow Properties \rightarrow Object tab \rightarrow uncheck "Protect object from accidental deletion," then move again.

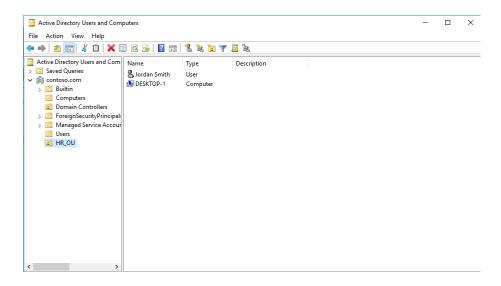


Figure 16: HR_OU containing the user (jsmith), group (HR_Department), and computer (DESKTOP-1).

5.3 Create and Link a GPO to the OU

We'll only create and link the GPO here. We'll edit the GPO policies in Step 6.

Open Group Policy Management (GPMC):

• Server Manager → Tools → Group Policy Management (or run gpmc.msc)

Create & Link:

- 1. In the left pane of GPMC, expand Forest: contoso.com → Domains → contoso.com.
- 2. Right-click HR_OU → "Create a GPO in this domain, and Link it here..."
- 3. Name: HR_Policies → OK
- 4. Confirm HR Policies now appears linked under HR OU.

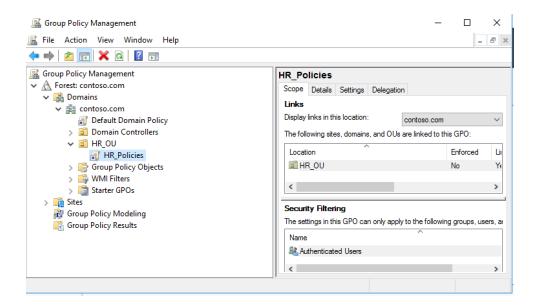


Figure 17: GPMC showing HR_Policies linked to HR_OU.

STEP 6 — EDIT THE HR_Policies GPO AND APPLY RULES

Goal

Configure the GPO linked to HR OU to:

- 1. Show a startup/logon message ("Do not install unauthorized programs.")
- 2. Block Command Prompt (CMD) for users
- 3. Map the HR share at user logon
- 4. Remove the **Run** command from Start

Where

Server (Domain Controller) — **Group Policy Management** (gpmc.msc)

Scope Reminder

- HR Policies must be linked to HR_OU
- User (jsmith) and computer (DESKTOP-1) should be inside HR_OU (done in Step 5)

6.1 Configure the Logon Banner (Startup Message)

Path

Computer Configuration → Policies → Windows Settings → Security Settings → Local Policies → Security Options

Settings

- Interactive logon: Message title for users attempting to log on \rightarrow Enabled
 - o Title: Notice
- Interactive logon: Message text for users attempting to log on → Enabled
 - Text: Do not install unauthorized programs.

Actions

- 1. Right-click HR_Policies → Edit
- 2. Navigate to the path above
- 3. Set **Title** and **Message text** as specified → **OK**

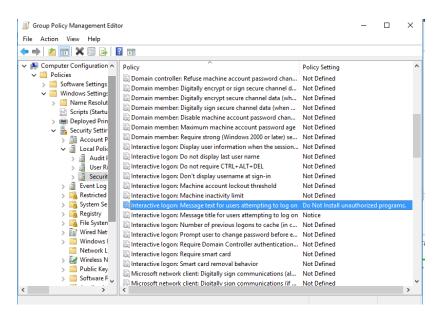


Figure 18: Security Options with Interactive logon title and text configured.

6.2 Block Command Prompt (without breaking logon scripts)

Path

User Configuration → Policies → Administrative Templates → System

Policy

- Prevent access to the command prompt → Enabled
 - Disable the command prompt script processing also? = No
 (Keeps CMD blocked for users, but still allows any batch scripts that Group Policy might run.)

Actions

- 1. In the same GPO Editor, navigate to the path above
- Open Prevent access to the command prompt → set Enabled
- 3. Set "Disable the command prompt script processing also?" = No \rightarrow OK

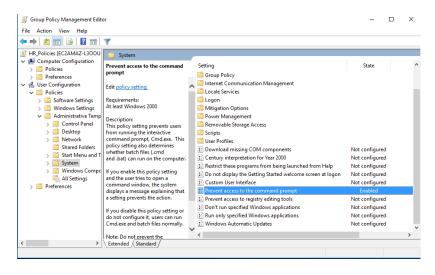


Figure 19: **Prevent access to the command prompt** = Enabled; script processing = **No**.

6.3 — Map the HR share at user logon (Drive Maps, no scripts)

Where: Server \rightarrow Group Policy Management \rightarrow HR_OU \rightarrow HR_Policies \rightarrow Edit

- 1. In the editor: User Configuration → Preferences → Windows Settings → Drive Maps
- 2. Right-pane: Right-click → New → Mapped Drive
- 3. Fill out:
 - Action: Create

- o **Location:** \\172.31.42.153\HRShare (use your server IP or name)
- o **Drive Letter:** H:
- Reconnect: (checked)
- o Label (optional): HR Share
- 4. Common tab: leave defaults (you can tick Run in logged-on user's context if you like) → OK.

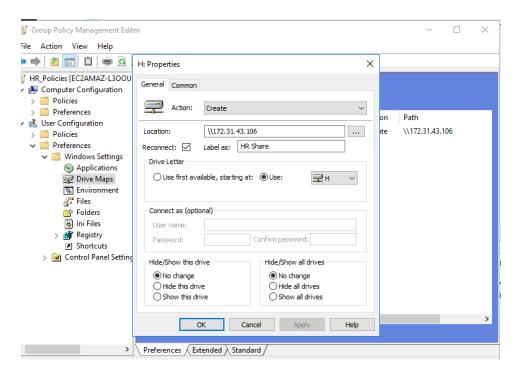


Figure 20: Drive Maps item showing H: $\rightarrow \172.31.42.153\$ HRShare.

6.4 — Remove the "Run" command from Start

Where: Same GPO editor

- 1. User Configuration → Policies → Administrative Templates → Start Menu and Taskbar
- 2. Open Remove Run menu from Start Menu \rightarrow set to Enabled \rightarrow OK.

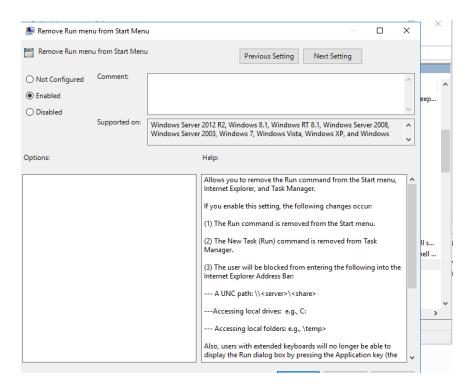


Figure 21: Policy window showing Enabled.

Apply & test (client)

On DESKTOP-2:

- Reboot (or sign out/in) and log in as CONTOSO\jsmaih.
- 2. Open File Explorer → confirm H: appears and opens the HR share.
- 3. Open **Start** \rightarrow confirm **Run** is gone (Win+R may also be blocked, depending on build).

Screenshots to grab (client):

- Explorer with H: mapped to \\172.31.42.153\HRShare
- Start menu with Run missing

STEP 7 — FIND THE LAST SUCCESSFUL LOGON FOR YOUR USER (ON THE SERVER)

Goal

On the **Domain Controller**, find the **latest successful logon** event for your user (e.g., **jsmaih**) and record the details.

Sign in as

CONTOSO\Administrator (domain admin)

7.1 Open the Security log

- 1. On the server: **Start** → **type** "Event Viewer" → **open**.
- 2. In the left pane, expand Windows Logs → Security.

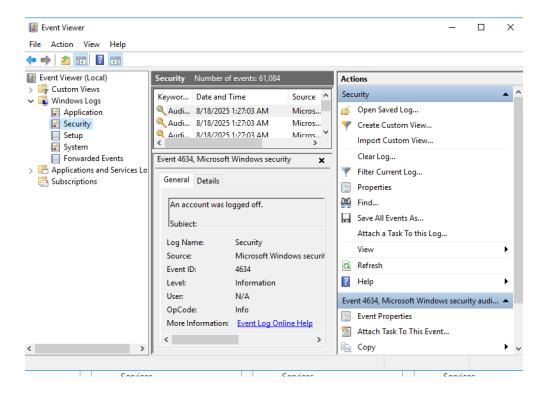


Figure 22: Event Viewer \rightarrow Windows Logs \rightarrow Security.

7.2 Filter to successful logons (Event ID 4624)

- 1. In Security, click Filter Current Log... (right pane Actions).
- 2. In Event IDs, type: 4624
- 3. Click OK.

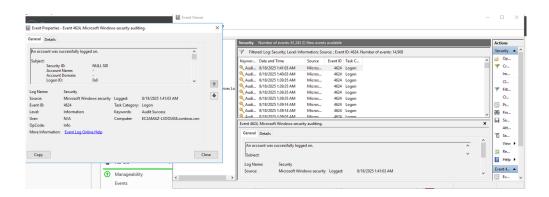


Figure 23: Filter Current Log \rightarrow Event IDs = 4624.

7.3 Find your specific user (fast)

- 1. With the filtered list visible, press Ctrl+F (or click Find... in Actions).
- 2. In **Find what**, type your username: jsmaih → **Find Next**.
 - This jumps to the next 4624 (success logon) that contains **jsmaih**.

Tip: If it lands on an older one, click once in the middle pane and press **Shift+F10** \rightarrow **Sort by** \rightarrow **Date and Time** (or click the **Date and Time** column header) to get newest at top, then use **Find** again.

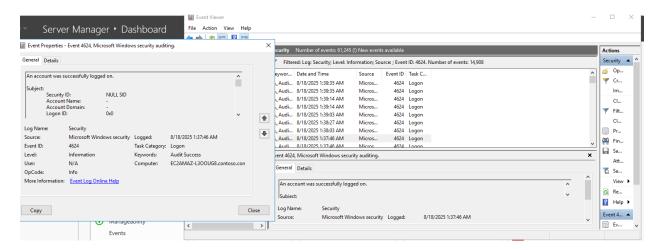


Figure 24: Find dialog searching for jsmith.

7.4 Read the details you need

- 1. Double-click the matching **4624** event for **jsmaih**.
- 2. In the **General** tab, scroll to **New Logon** and **Network Information** sections.
- 3. Write down these fields (for your report):
 - Time (top of the dialog)
 - New Logon → Account Name: jsmaih
 - New Logon → Account Domain: CONTOSO
 - Logon Type: (e.g., 2 = console, 3 = network, 10 = RDP)
 - Network Information → Workstation Name (if present)
 - Network Information → Source Network Address (client IP, if present)

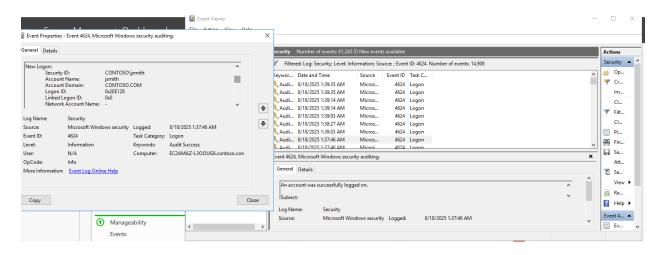


Figure 25: Event 4624 details — New Logon and Network Information.

STEP 8

8.1 Open PowerShell

- 1. Click Start, type PowerShell, right-click Windows PowerShell → Run as administrator.
- 2. Confirm the blue console opens.

8.2 WMI

Command (type exactly):

Get-CimInstance Win32_Product | Sort-Object InstallDate -Descending | Select-Object -First 1 Name, Version, Vendor, InstallDate

```
Windows PowerShell

Indows Power
```

Figure 26: PowerShell of Last Inatalled Package

Output:

PS C:\Users\jsmith> Get-CimInstance Win32_Product | Sort-Object InstallDate -Descending | Select-Object -First 1 Name,Version,Vendor,InstallDate

Name Version Vendor InstallDate

Amazon SSM Agent 3.2.582.0 Amazon Web Services 20230211

STEP 9 — List All Running Services to a File

Goal

Generate a list of all **running** Windows services and save it to running_services.txt on the signed-in user's Desktop.

Where

Client workstation (e.g., **DESKTOP-2**) → **Windows PowerShell**

9.1 Run the command

- 1. Open **Start** → **Windows PowerShell** (normal window is fine).
- 2. Type the following single line and press Enter:

Get-Service | Where-Object Status -eq Running | Sort-Object DisplayName | Out-File "\$env:USERPROFILE\Desktop\running services.txt"

```
#Indows PowerShell
#Indows Power
```

Figure 27: PowerShell Script to List All Running Processes

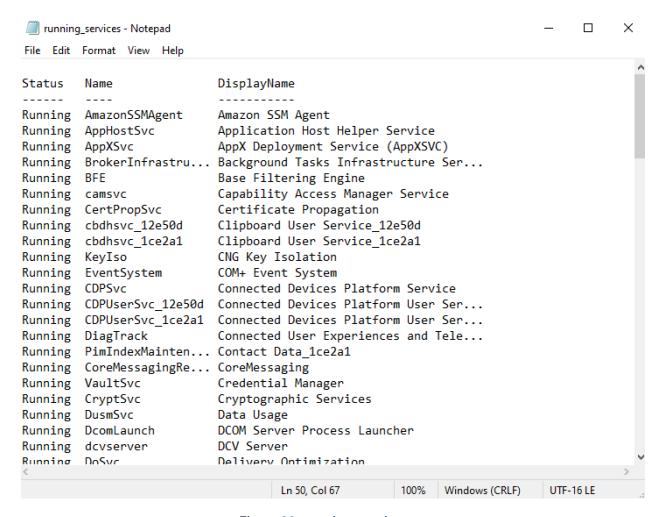


Figure 28: running_services.txt