

Milestone 2 – Security Hardening & Patch Management Report

Change Record ID: CR-NET2220-M2-2025

Change Type: Security Hardening & Patch Compliance

Server Name: SERVER3

Date Implemented: November 24 – December 1, 2025

1. System Summary

Field	Value
Hostname	SERVER3
IP Address	(Insert from <code>ipconfig /all</code>)
Operating System	Windows Server 2022 Standard (Desktop Experience)
OS Build	(From <code>systeminfo</code>)
Domain Membership	corp.local
Roles Installed	AD DS, DNS (from DC promotion), File Services (if present)

2. Security Policies Applied

Security settings were applied using Local Security Policy and PowerShell, following CIS Windows Server 2022 Level 1 recommendations.

Password Policy

- Minimum Password Length: 12
- Maximum Password Age: 60 days
- Password History: 24 passwords
- Complexity: Enabled

Account Lockout Policy

- Lockout Threshold: 5 attempts
- Reset Counter: 15 minutes
- Lockout Duration: 15 minutes

Screenshot(s) to Insert:

- Password Policy window
- Account Lockout Policy window

3. Firewall Configuration

Firewall was enabled on **Domain**, **Private**, and **Public** profiles, and secure inbound rules were applied.

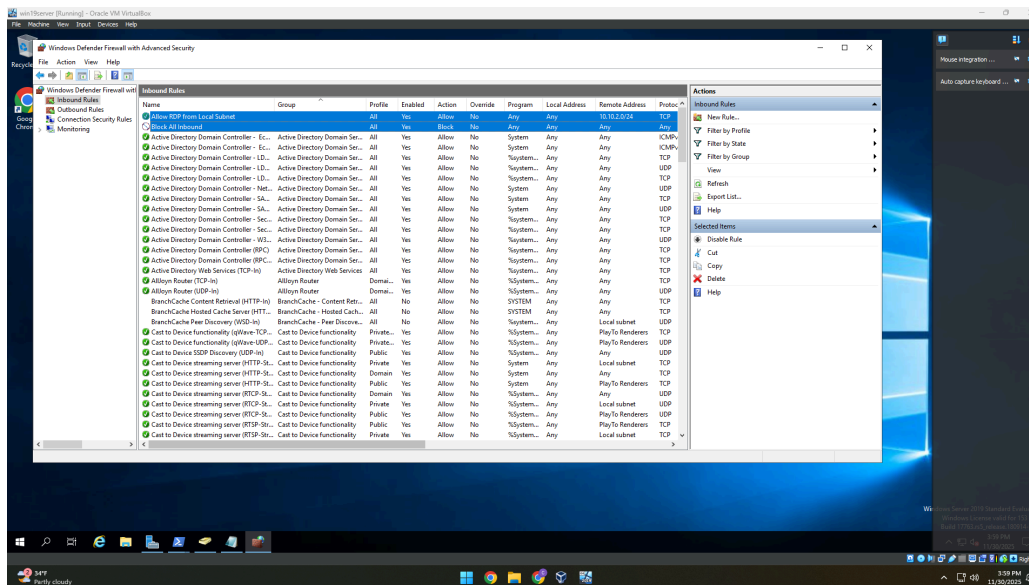
Rule Name	Action	Port/Protocol	Scope
Allow RDP from Local Subnet	Allow	TCP 3389	Local Subnet Only
Block All Other Inbound	Block	All	All
Default Windows Rules	Allow/Block	Various	As configured

Commands used:

```
Set-NetFirewallProfile -Profile Domain,Private,Public -Enabled True
```

```
New-NetFirewallRule -DisplayName "Allow RDP from Local Subnet"
-Direction Inbound -Protocol TCP -LocalPort 3389 -RemoteAddress <your
subnet> -Action Allow
New-NetFirewallRule -DisplayName "Block All Inbound" -Direction
Inbound -Action Block
```

Screenshot to Insert:



4. Services Audit

Services were reviewed and hardened according to CIS baseline.

Disabled Services:

Service	Reason
RemoteRegistry	Prevent remote registry tampering
Telnet	Obsolete, insecure protocol
Print Spooler	Disabled for security unless printing is required

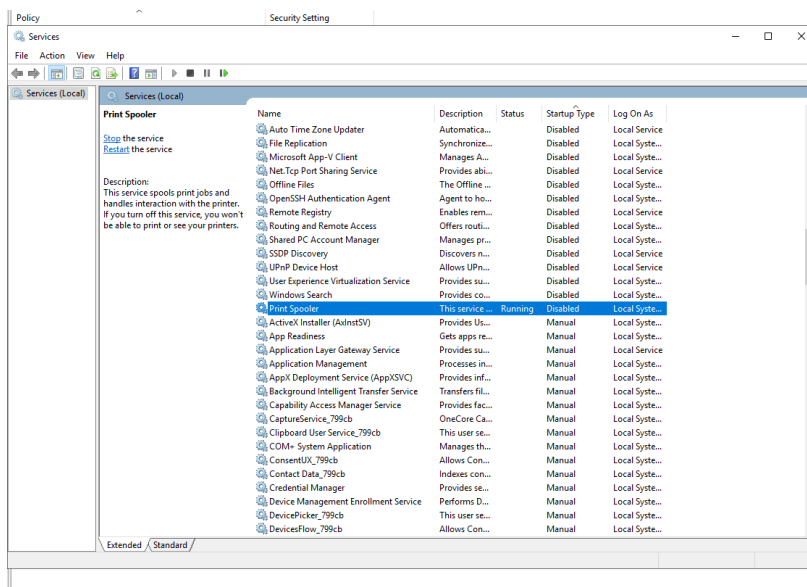
Command used:

```
Set-Service RemoteRegistry -StartupType Disabled
Set-Service TlntSvr -StartupType Disabled
Set-Service Spooler -StartupType Disabled
```

Verification:

```
Get-Service | Where-Object {$_.StartType -eq 'Disabled'}
```

Screenshot to Insert:



5. Patch Verification

Patch level was validated using PowerShell:

```
Get-HotFix | Sort-Object InstalledOn -Descending | Select-Object
-First 10
systeminfo | Select-String "KB"
```

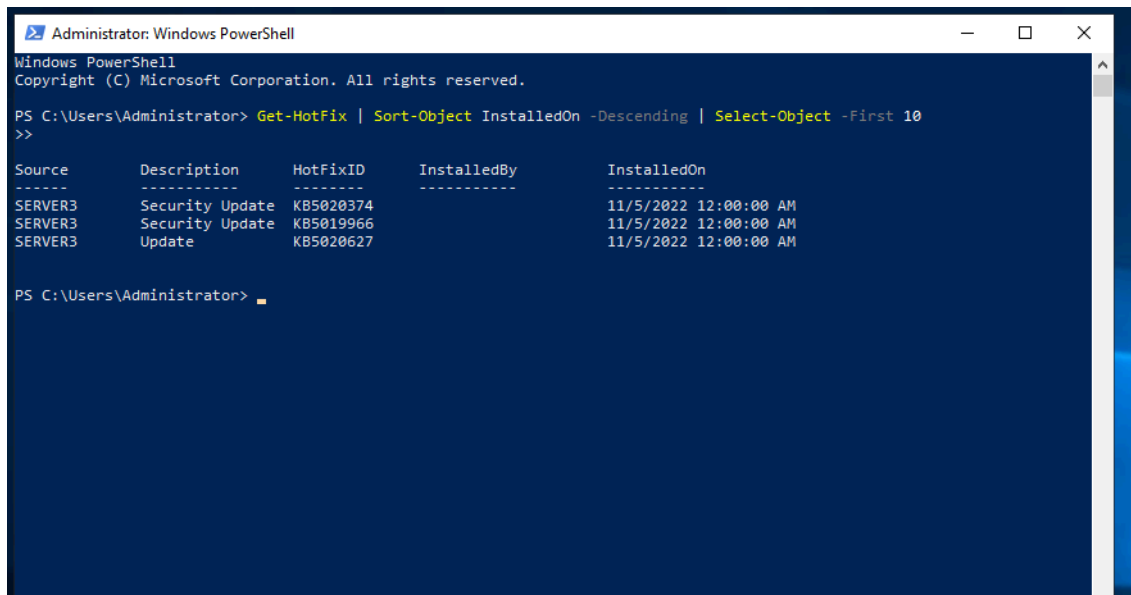
Recent KBs installed (example):

- KB5020374

- KB5019966
- KB5020627

This confirms the system is fully patched with November 2025 cumulative updates.

Screenshot to Insert:



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> Get-HotFix | Sort-Object InstalledOn -Descending | Select-Object -First 10
>>

Source      Description      HotFixID      InstalledBy      InstalledOn
-----      -
SERVER3     Security Update  KB5020374     -----         11/5/2022 12:00:00 AM
SERVER3     Security Update  KB5019966     -----         11/5/2022 12:00:00 AM
SERVER3     Update          KB5020627     -----         11/5/2022 12:00:00 AM

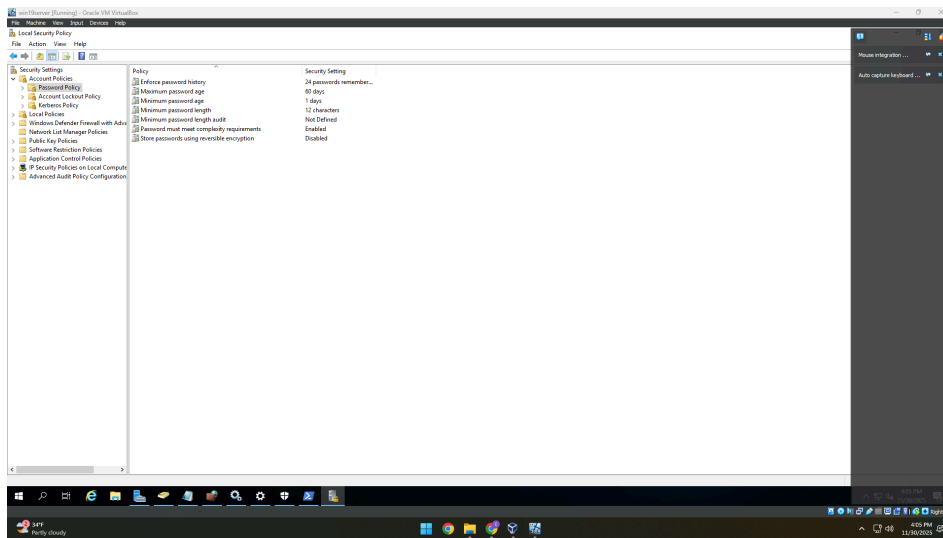
PS C:\Users\Administrator>
```

6. Evidence Screenshots

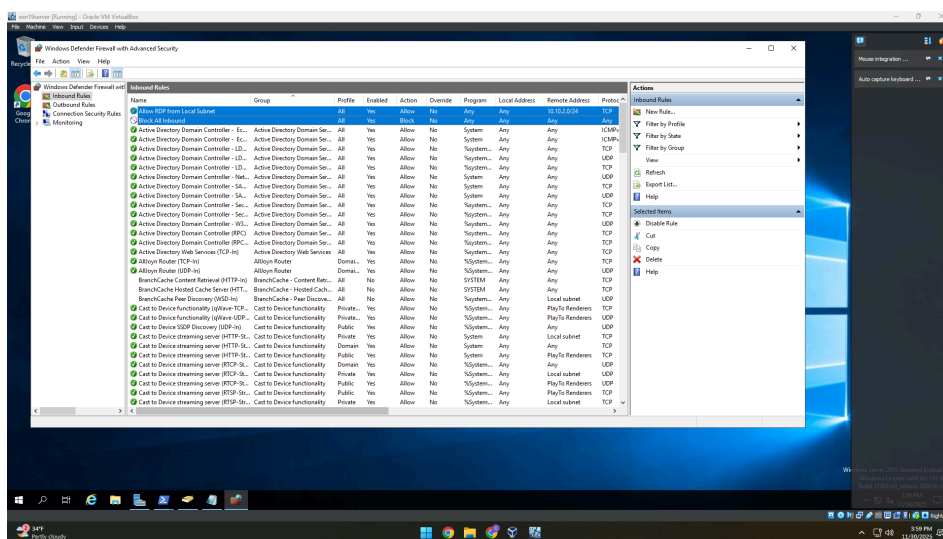
Insert all screenshots from Labs 3 and 4, clearly labeled.

Required screenshots:

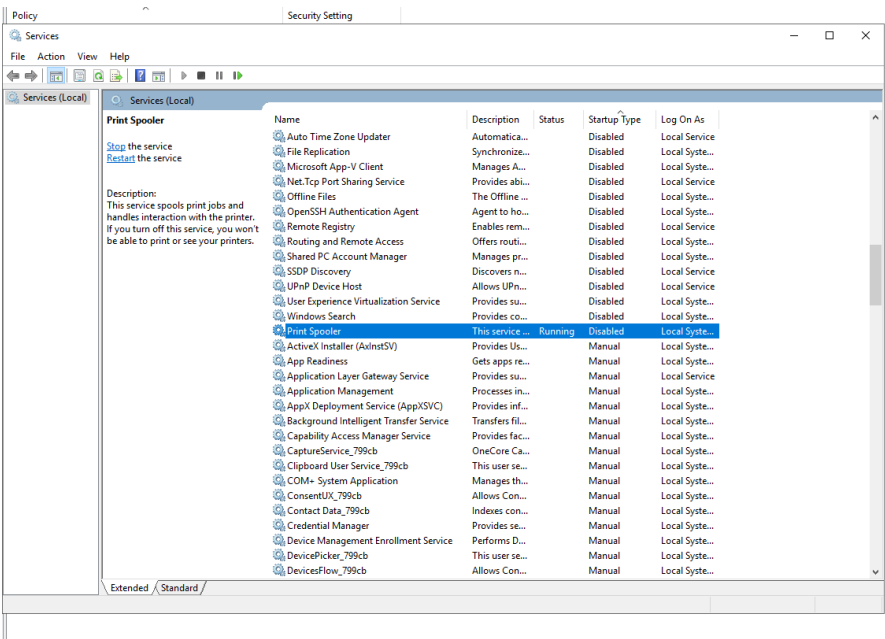
1. Password Policy settings



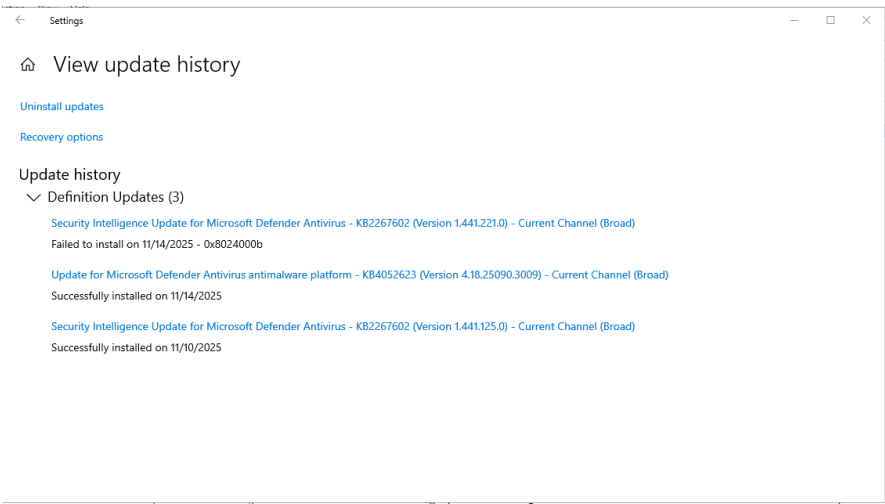
2. Firewall rules



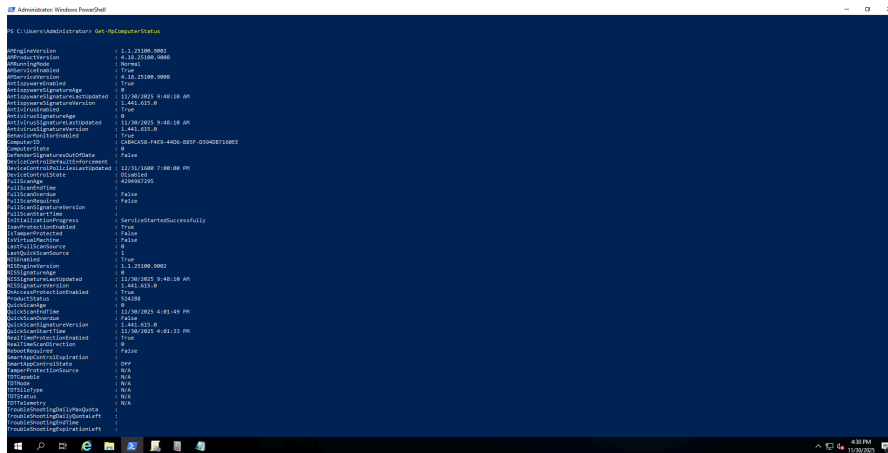
3. Disabled services list



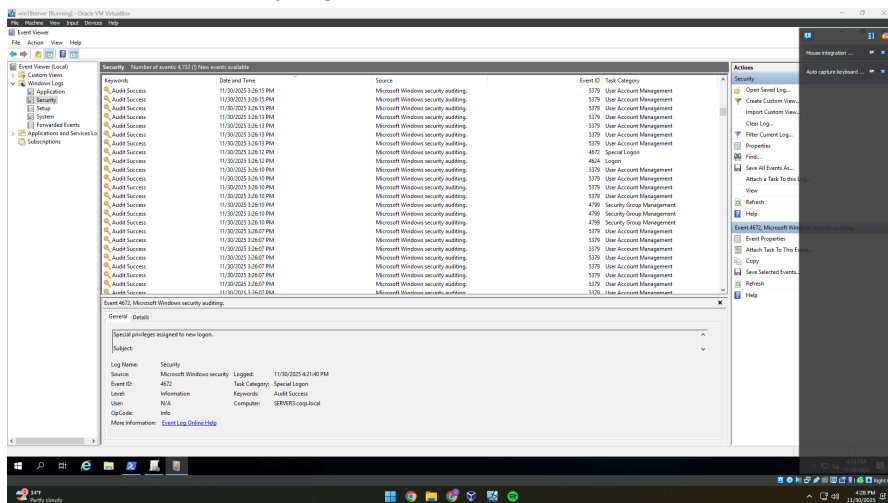
4. Windows Update history



5. PowerShell HotFix output



6. Event Viewer Security log entries



7. Audit Policy Configuration

Audit policies followed NIST/CIS recommendations:

Enabled via PowerShell:

```
auditpol /set /subcategory:"Logon" /success:enable /failure:enable
```

```
auditpol /set /subcategory:"User Account Management" /success:enable  
/failure:enable
```

```
auditpol /set /subcategory:"Security Group Management" /success:enable
```



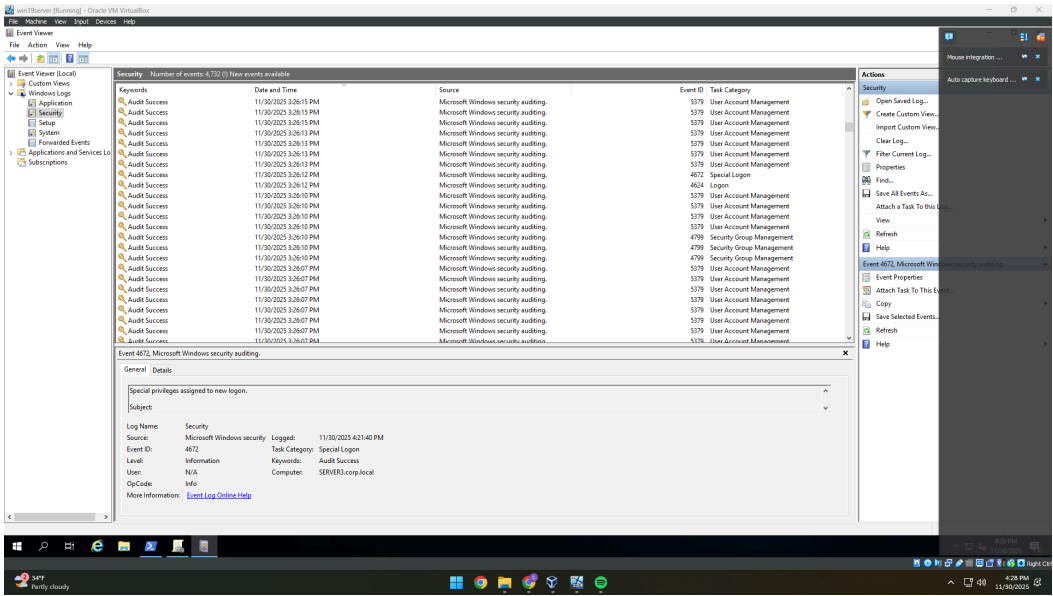
```
auditpol /set /subcategory:"Audit Policy Change" /success:enable /failure:enable
```

Verified using:

```
auditpol /get /category:*
```

Event Viewer confirmed audit events such as:

- 4624 (Logon)
- 4720 (User created)
- 4732 (User added to group)
- 4719 (Policy change)



8. Validation Results

Test	Result	Status
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CIS baseline controls applied	Verified by policy settings	Pass
Password & lockout policy	Correct per screenshot	Pass
Firewall profiles enabled	Validated	Pass
Unnecessary services disabled	Verified in PowerShell	Pass
Patches installed	HotFix list validated	Pass
Audit logs functioning	Security log events visible	Pass

9. Rollback Plan

A VM snapshot was taken prior to hardening:

Snapshot Name: Pre-Hardening-11-24-25

Rollback steps:

1. Revert snapshot in VM manager
 2. Boot the server
 3. Confirm networking and domain membership
 4. Validate AD DS services
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10. Approvals

Role	Name	Date	Status
System Admin	Clayton Holden	12/1/25	Approved
Change Manager	Norma DePriest	12/2/25	Approved
Security Officer	(Optional)	—	Pending

Outcome

Security hardening and patch validation were successfully completed on **SERVER3**. The system now meets CIS Windows Server 2022 Level 1 requirements for password complexity, lockout policies, firewall configuration, service hardening, patch management, and audit log visibility. No rollback required.