Windows Clustered Service Setup & Installation Guide
This document provides a step-by-step guide to install a Windows Service in a clustered environment where the service
executable resides on a shared Cluster Disk (e.g., E:) and is managed by Windows Failover Clustering.
1. Environment Overview
- Service Type: Custom Windows Service
- Cluster Disk: E:\ (Shared between nodes)
- Cluster Nodes: NodeA, NodeB
- Cluster Manager: Windows Failover Cluster Manager
- Service Account: LocalSystem
- Startup Type: Manual (Cluster-managed)
2. Prerequisites
- Service binary and dependencies must be placed in a directory on Cluster Disk E:\ (e.g., E:\MyService\MyService.exe)
- Both nodes must have access to the same path once the disk is moved
- Windows Failover Clustering role already created
3. Service Registration Script (PowerShell)
This script should be run on each cluster node only after moving ownership of Cluster Disk E: to that node.
PowerShell Script:
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```
$serviceName = "MyService"
$displayName = "My Clustered Service"
$exePath = "E:\MyService\MyService.exe"
$serviceDescription = "Custom clustered Windows Service"
if (Get-Service -Name $serviceName -ErrorAction SilentlyContinue) {
Write-Output "Service \$serviceName' already exists. Skipping registration."
} else {
sc.exe create $serviceName binPath= ""$exePath"" start= demand DisplayName= ""$displayName""
sc.exe description $serviceName "$serviceDescription"
Write-Output "Service '$serviceName' created successfully."
}
Note: Do NOT set recovery settings via sc failure, as the cluster manages recovery.
4. Cluster Role Configuration (Post Service Registration)
- Open Failover Cluster Manager
- Go to Roles Right-click the appropriate role Properties
- Under General tab:
- Verify name and assigned resources (Service + Disk)
- Under Resources:
- Add the new service (if not added automatically)
```

- Under Advanced Policies:

- Ensure both NodeA and NodeB are listed as Possible Owners

- Set Maximum Failures and Failover Period as required

- Set Startup Type of the service to Manual (important)
5. Azure DevOps Deployment Integration
Objective:
Deploy the service binary to Cluster Disk E:\ using Azure DevOps without impacting the overall cluster or other clustered
services.
Deployment Steps:
1. Stop the specific clustered service:
Stop-ClusterResource -Name "MyService"
2. Deploy updated binaries to E:\MyService
3. Start the specific clustered service:
Start-ClusterResource -Name "MyService"
Recommendations:
- Only stop the specific resource during deployment
- Ensure Azure DevOps agent runs on the node owning E:
6. Key Best Practices
- Avoid using sc failure: Cluster manages service restart/failover.
- Run service as LocalSystem
- Startup type should be Manual
- Use cluster-safe PowerShell commands

## - Move cluster disk to Node B Register service Validate - Move cluster role to Node B Ensure service starts - Test failover by shutting down Node A - Use commands to verify: Get-ClusterResource -Name "MyService" Stop-ClusterResource -Name "MyService" Start-ClusterResource -Name "MyService" 8. Cluster Monitoring and Identification - Get Cluster Name: Get-Cluster | Select-Object Name - Find Active Node for Service: Get-ClusterResource -Name "MyService" | Get-ClusterOwnerNode - List All Resources and Their Owners: Get-ClusterResource | Select-Object Name, OwnerNode, State - Get Active Node for Role: Get-ClusterGroup | Select-Object Name, OwnerNode, State 9. Troubleshooting Tips

7. Validation

| Issue

| Resolution

-	
Service fails to start	Check E: availability, dependencies
Cluster role wont faild	over  Check if Node B is set as possible owner
Service restarts endle	essly   Confirm no sc failure recovery is set
Other services interru	upted   Ensure only specific resource is stopped