Main Task: Define a scheduled backup of a specific folder:

SubTask:

Add second hard drive or create a separate volume on the existing one

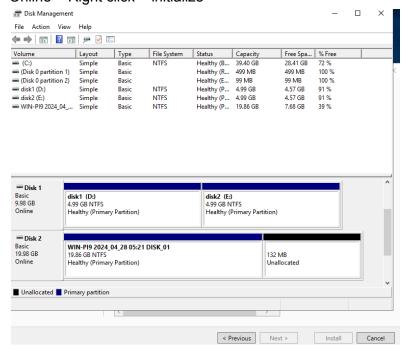
Creating 2 Hard Drive using Hyper-V

Virtual Machine > Settings > SCSI Controller > select Hard Drive > Add> New > follow installation wizard



If the backup will be stored in a drive that is already in use you don't have to do the next procedure

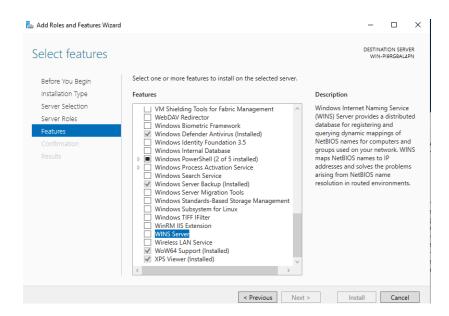
Now we need to turn that disk online and initialize it so we can use it Right click on Windows Icon in the task bar > open Disk Managment > Right click on the disk > Online > Right click > initialize



SubTask:

Install Windows Server Backup feature

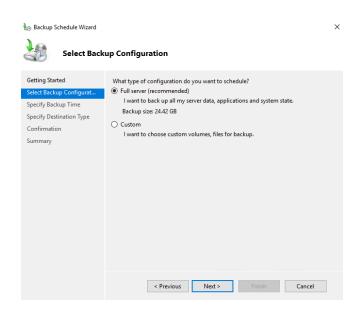
Open Server Manager > Add Roles and Features > Next > Select the machine you want to install the backup feature > Features > Select Windows Server Backup > Install



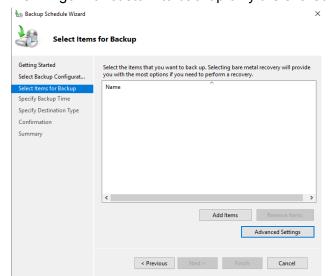
SubTask:

Define a scheduled backup job that will run every day at 07:30 AM and will back up only the C:\Shared folder (first you must create it and copy some files there)

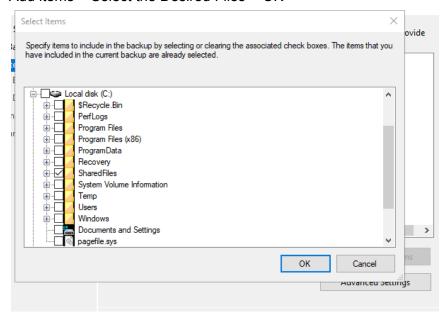
Server Manager > Tools > Windows Server Backup > Backup Schedule > Next Here you can use full server which will backup the OS + data file but it takes more storage space or you can customize only specific drives, files, etc to be backuped this will be more storage efficient



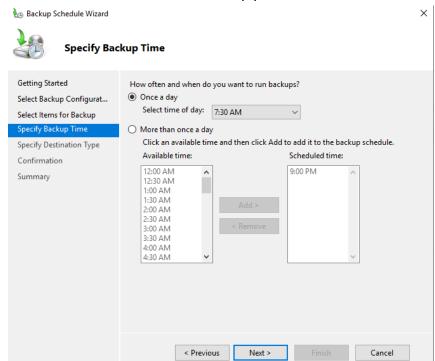
We will go with custom to backup only the shared files that are important to us



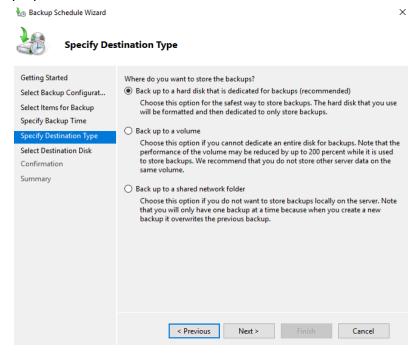
Add items > Select the Desired Files > OK

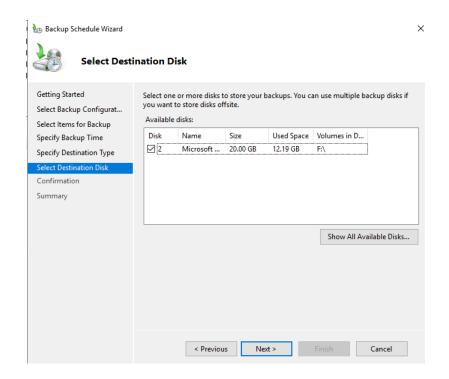


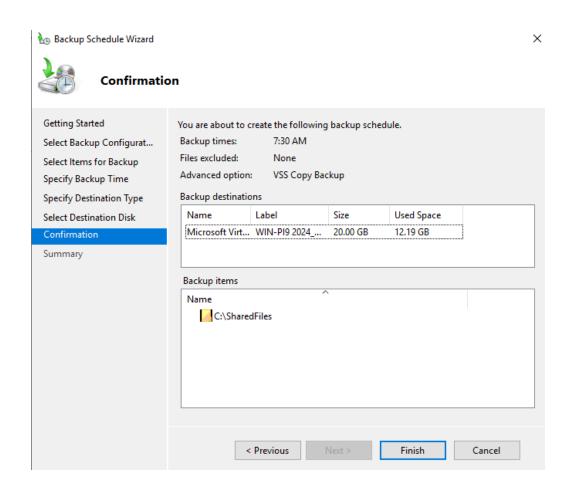
Next we will choose when the backup process to start



Next Choose where you want to backup the Files best practice on a dedicated machine for this purpose ,in our case we will use our new virtual hard drive we created earlier



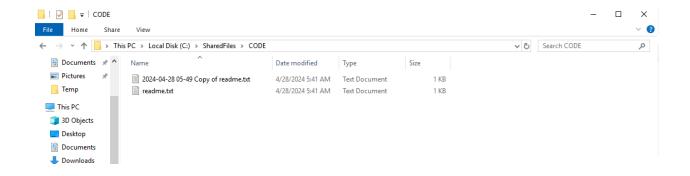




Finish

Proof:

```
PS C:\Users\Administrator> get-wbpolicy
Schedule
                     : {5/7/2024 7:30:00 AM}
                     : {WIN-PI9 2024_05_07 05:33 DISK_01}
BackupTargets
VolumesToBackup
                     : {}
FilesSpecsToBackup
                    : {C:\SharedFiles\*}
FilesSpecsToExclude
                     : {}
                      : {}
ComponentsToBackup
BMR
                     : False
SystemState
                     : False
OverwriteOldFormatVhd : True
VssBackupOptions
                    : VssCopyBackup
PS C:\Users\Administrator> _
```



Task: Create a PowerShell scheduled job that is executed every 5 minutes and captures current total utilization percentage of the CPU and adds the result as a row to a file C:\Temp\CPU.log

```
Toreate text file and insert this power shell commands
cpu-script.ps1 - Notepad

File Edit Format View Help

$dateTime = Get-Date -Format "yyyy-MM-dd HH:mm:ss"

$cpuUtilization = (Get-WmiObject Win32_PerfFormattedData_PerfOS_Processor | Select-Object -ExpandProperty PercentProcessorTime | Measure-Object -Average). Average

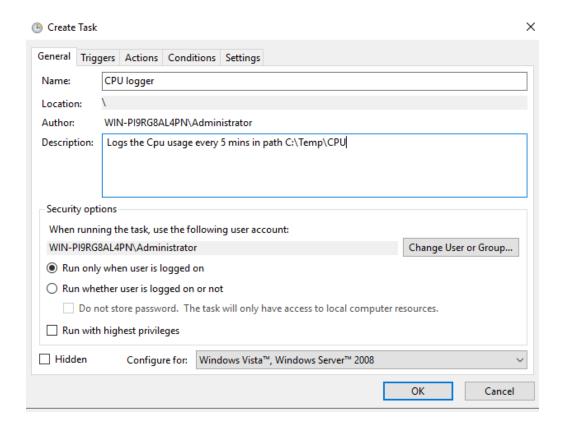
$cpuUtilization = "CPU used $cpuUtilization%"

"$dateTime,$cpuUtilization" | out-file -append -filepath "C:\Temp\CPU.log"|

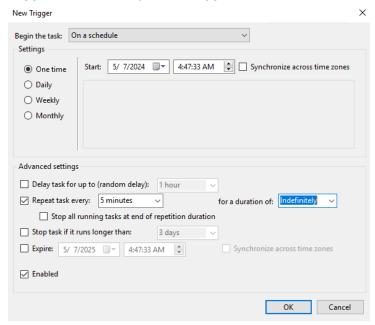
2)

Task Scheduler is build in feature so we don't need to install it
```

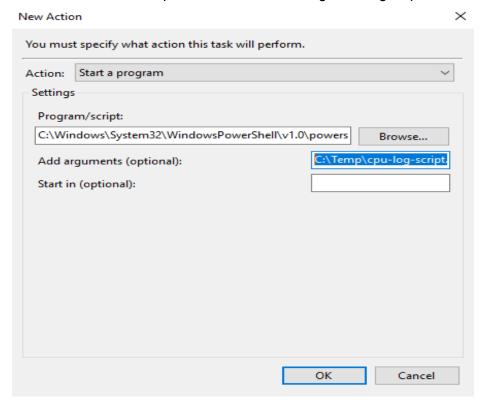
Open Server Manager > Tools > Task Scheduler > Create New Task > General >



Triggers > New > Adjust the trigger time span and repetition



Actions > New>Path to power shell exe ,add arguments give path to the script file



Proof

▲ Name	S	Triggers	Next Run Time	Last Run Time	Last Run Result
User_Feed_S	Ready	At 9:49 AM every day - Trigger expires at 5/7/203	5/7/2024 9:49:57 AM	5/7/2024 3:02:46 AM	The operation completed succes
Demo	Disabled	At 12:16 PM every day	At 9:49 AM every day - Tr	rigger expires at 5/7/2034 9	:49:57 AM.
CPU Log	Ready	At 3:26 AM on 5/7/2024 - After triggered, repeat	5/7/2024 4:06:00 AM	5/7/2024 4:01:01 AM	(0xC000013A)

```
General Triggers Actions Conditions Settings History
 ▼ Number of events: 108
  Level Date a... Event... Task Category Operational Code Correlation Id
 ● Inf... 5/7/20... 102 Task completed (2)
                                                                           a68fabd0-3...
Inf... 5/7/20...
Inf... 5/7/20...
                           201 Action comple... (2)
                                                                           a68fabd0-3...
                           200 Action started (1)
                           100 Task Started (1)
129 Created Task P... Info
107 Task triggered ... Info
102 Task completed (2)
inf... 5/7/20...
inf... 5/7/20...
                                                                           a68fabd0-3...
                                                                           a68fabd0-3...
 (i) Inf... 5/7/20...
 inf... 5/7/20...
                                                                            94c35cf7-0a...
inf... 5/7/20...
inf... 5/7/20...
inf... 5/7/20...
                                                                           94c35cf7-0a...
                           201 Action comple... (2)
                           200 Action started (1)
100 Task Started (1)
                                                                            94c35cf7-0a...
                                                                           94c35cf7-0a...
                           129 Created Task P... Info
107 Task triggered ... Info
102 Task completed (2)
  inf... 5/7/20...
                                                                           94c35cf7-0a...
 (i) Inf... 5/7/20...
 Inf... 5/7/20...
                                                                            71592744-8...
inf... 5/7/20...
                           201 Action comple... (2)
                                                                            71592744-8..
  Event 102, TaskScheduler
     Task Scheduler successfully finished "{a68fabd0-3116-45cd-8f32-69ecf26830ff}" instance of the "\CPU Log" task for user "WIN-PI9RG8AL4PN\Administrator".
                          {\it Microsoft-Windows-TaskScheduler/Operational}
    Source:
                        TaskScheduler Logged: 5/7/2024 4:56:01 AM
```

Administrator: Windows PowerShell

```
PS C:\Users\Administrator> get-scheduledtask -taskname
State
                        : Ready
Actions
                        : {MSFT TaskExecAction}
Author
                         : WIN-PI9RG8AL4PN\Administrator
Date
                         : 2024-05-07T03:27:51.8759662
Description
                         : Logs cpu usage in path C:\Temp\cpu.log
Documentation
                         : MSFT_TaskPrincipal2
Principal
SecurityDescriptor
Settings
                         : MSFT_TaskSettings3
Source
TaskName
                         : CPU Log
TaskPath
                          {MSFT_TaskTimeTrigger}
\CPU Log
Triggers
URI
Version
PSComputerName
                         : Root/Microsoft/Windows/TaskScheduler:MSFT_ScheduledTask
CimClass
CimInstanceProperties :
CimSystemProperties :
                       s : {Actions, Author, Date, Description...}
: Microsoft.Management.Infrastructure.CimSystemProperties
PS C:\Users\Administrator> 🛓
```

CPU.log - Notepad

File Edit Format View Help ,1 2024-05-07 03:10:42,5.4 2024-05-07 03:11:58,5.4 2024-05-07 03:13:50,3.4 2024-05-07 03:15:29,CPU used 3.4% 2024-05-07 03:17:44,CPU used 1.2% 2024-05-07 03:19:54,CPU used 1.4% 2024-05-07 04:06:02,CPU used 3% 2024-05-07 04:11:01,CPU used 2% 2024-05-07 04:16:01,CPU used 5.2% 2024-05-07 04:21:01,CPU used 1% 2024-05-07 04:26:01,CPU used 8.2% 2024-05-07 04:31:01,CPU used 0% 2024-05-07 04:36:01,CPU used 4.6% 2024-05-07 04:41:01,CPU used 0.8% 2024-05-07 04:46:01,CPU used 2.6% 2024-05-07 04:51:01,CPU used 1.2% 2024-05-07 04:56:01,CPU used 1.4%