

```

Function List-Partitions(){
#*****
# Purpose: create an arraylist of Partition
#*****
$ArrayDrive = New-Object System.Collections.ArrayList

$partitionInfo = @(
    $partitions = (Get-CimInstance -Classname Win32_LogicalDisk | Where-
Object -FilterScript {($_.DriveType -eq 3)} ) #Hard Drive
    if ($null -ne $partitions){
        ForEach ($partition in $partitions) {
            $PartitionUsedSpace = ($partition.Size - $partition.Freespace
)
            $AssociatorLetterToIndex = Get-CimInstance -Query
"ASSOCIATORS OF {Win32_LogicalDisk.DeviceID=' $($partition.DeviceID)'} WHERE
AssocClass=Win32_LogicalDiskToPartition"
            foreach($Item In $AssociatorLetterToIndex){
                $AssociatorIndex = Get-CimInstance -Query "ASSOCIATORS
OF {Win32_DiskPartition.DeviceID=' $($Item.DeviceID)'} WHERE
AssocClass=Win32_DiskDriveToDiskPartition"
                [pscustomobject]@{
                    Number=$Item.Index; DiskIndex = $Item.DiskIndex ;
DiskType = $Item.DiskIndex ; DiskSize = [math]::Round($AssociatorIndex.Size
/ 1GB);
                    DriveLetter=$partition.DeviceID ; Available=
[math]::Round($partition.Freespace / 1GB) ; Size =
[math]::Round($partition.Size / 1GB) ;
                    CaptureSize= [math]::Round($PartitionUsedSpace /
1GB); FileSystem = $partition.FileSystem
                }
            }
        }
    }
    else{
        Add_Log -Message ("No Disk and Partition Found!") -Severity 3 -
Component "ListPartitions"
    }
)

$ArrayDrive.AddRange($partitionInfo)
return $ArrayDrive
}

List-Partitions | Format-Table -AutoSize

```

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Last update: **2020/08/10 23:07**