1 # Define ESXi host IP or hostname

# 2 $esxName = '192.168.204.2'

3

1. # Define time range for statistics collection
2. $start = (Get-Date).AddDays(-7)

6

7 # Define performance metrics to collect

# 8 $stat = 'cpu.usage.average','mem.usage.average','disk.usage.average' 9

1. # Get the ESXi host
2. $esx = Get-VMHost -Name $esxName

# 12

1. # Initialize an empty array to store VM metrics
2. $vmMetrics = @()

# 15

1. # Get all VMs registered on the ESXi host
2. $vms = Get-VMHost $esx | Get-VM

# 18

1. # Iterate through each VM on the host
2. foreach ($vm in $vms) {
3. # Get performance statistics for the VM
4. $vmStats = Get-Stat -Entity $vm -Start $start -Stat $stat -IntervalMins 120 |
5. Group-Object -Property Timestamp | ForEach-Object {
6. $cpuAvg = $\_.Group | Where-Object { $\_.MetricId -eq 'cpu.usage.average' } | Select-Object -ExpandProperty Value -First 1

# 25 $memAvg = $\_.Group | Where-Object { $\_.MetricId -eq 'mem.usage.average'

} | Select-Object -ExpandProperty Value -First 1

|  |
| --- |
| 26  27  28  29  30  31  32  33  34  35  36  37  38  39 }  40 |

$diskUsage = $\_.Group | Where-Object { $\_.MetricId -eq

'disk.usage.average' } | Select-Object -ExpandProperty Value -First 1

[PSCustomObject]@{ VMName = $vm.Name

Date = $\_.Name

CpuAvg = $cpuAvg

MemAvg = $memAvg

DiskUsage = $diskUsage

}

}

# Add VM metrics to the array $vmMetrics += $vmStats

1. # Export VM metrics to CSV
2. $vmMetrics | Select-Object VMName,Date,CpuAvg,MemAvg,DiskUsage |

# 43 Export-Csv -Path 'C:\Users\santh\OneDrive\Desktop\workload traces\host1\_VMs\u21-03-2024.csv' -NoTypeInformation -UseCulture 44