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# How To Gather VMWare Stats Using Powercli

Prerequisites:

* [Install powercli](https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.esxi.install.doc/GUID-F02D0C2D-B226-4908-9E5C-2E783D41FE2D.html) on your localhost/desktop

Step to collect stats

1. Copy [Realtime stats](https://drive.google.com/file/d/1FZIWjgXsInDAuNLD5Qr_MDojLHwz282G/view?usp=sharing) collection script and [Wrapper script](https://drive.google.com/file/d/1FZIWjgXsInDAuNLD5Qr_MDojLHwz282G/view?usp=sharing) to localhost that has powercli installed & can access vcenter server
2. Modify [Realtime stats](https://drive.google.com/file/d/1FZIWjgXsInDAuNLD5Qr_MDojLHwz282G/view?usp=sharing) script variables mentioned below are defined as per your environment

#Variables - This should be changed to match your configuration

$vcenter = "xxxxxxxxx"

$vcenter\_user = 'administrator@vsphere.local'

$vcenter\_password = 'xxxxxxxx’'

$CDP\_VMs = 'VM1','VM2'

$TempCSVlocation = "C:\Users\wkhan\Desktop\pcli\_out\CDPRTPerformance.csv"

$date = (Get-Date).AddMinutes(-20)

*Note: Please make sure the location for CSV is writable.*

1. Wrapper Script: This script will run a statistics capture job in the background on a local host which has powercli installed.

On cmd execute below command as shown in the example below:

start /min powershell -WindowStyle Hidden -Command C:\ROM\\_110106\_022745\Wrapper..ps1

1. After statistics collection is complete, identify & kill the process.

Eg:

Get-WmiObject -Class win32\_process -Filter "name='powershell.exe'" | Select-Object -Property ProcessId, CommandLine

taskkill /pid <ProcessId> /f

# 

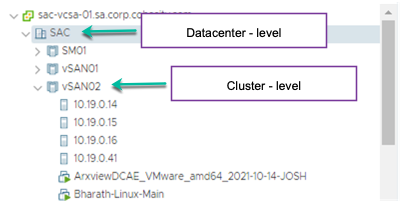
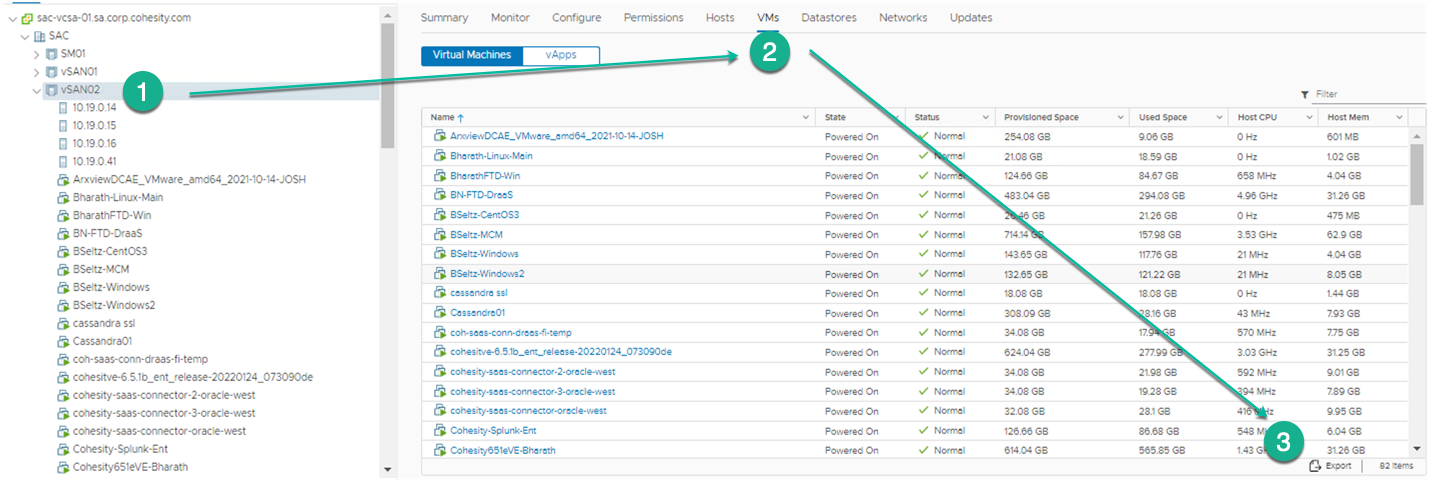
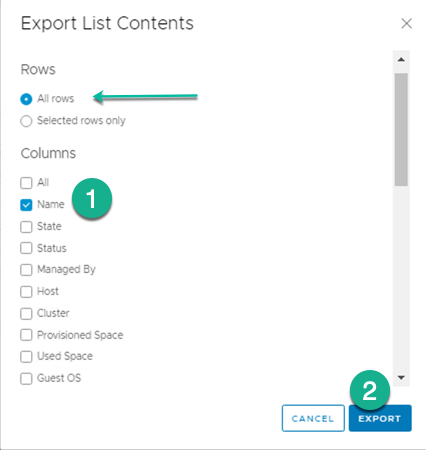
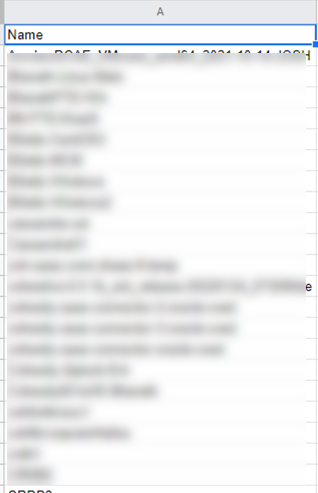
# Real time Stats CSV Method

This method uses a particular csv extraction script [here](https://drive.google.com/file/d/19jYY_JA52p1XXQkNnzUyGc-vswfkM5R1/view?usp=sharing) - where the user inputs the csv to the vm extraction script and the output should be the csv file containing the IO stats for the duration of the script run. You can use the [Windows Scheduler mechanism](#_fg8biv1vmxp2) for periodic extraction when this method is used.

## Principle

1. First step is to get a list of VMs from the vCenter.
2. This method helps customize the VM-Set of importance depending on the container (VM-folders, VM-Cluster, Datastore or Datacenter)
3. The method below showcasing how to extract VMs from the "Datacenter" container

## Extraction method

1. Login to the vCenter
2. Pick the parent container on the left menu panel,As shown below you can pick either "Datacenter" level or "Cluster" level
3. 
4. Once you choose your parent container, Choose the VMs Column and then you will get the list of VMs in the container, click on "Export"
5. 
6. From the option click on "all rows", and remove all options but "Name"
7. 
8. Once extracted you should have a list of VMs as shown below, ensure you save the csv file and record the location as you will need this in the next step
9. 

Prepare the script

1. Download the full package [here](https://drive.google.com/drive/folders/14-DWRsc29FrDIubIWmvNbhgZ28IgWFf5?usp=sharing) ensure it contains the [RealTimeStats20MinsInterval-GetCSV.zip](https://drive.google.com/file/d/19jYY_JA52p1XXQkNnzUyGc-vswfkM5R1/view?usp=sharing) package.
2. Add the path to the VM CSV within the [RealTimeStats20MinsInterval-GetCSV.zip](https://drive.google.com/file/d/19jYY_JA52p1XXQkNnzUyGc-vswfkM5R1/view?usp=sharing) as shown below

#Variables - This should be changed to match your configuration

$vcenter = "10.19.0.47"

$vcenter\_user = 'administrator@vsphere.local'

$vcenter\_password = 'fr8shCohe$1ty'

##$CDP\_VMs = 'Bharath-Linux-Main','BharathFTD-Win','Cohesity-Splunk-Ent'

**$CDP\_VMs = Import-Csv -Path "C:\<path to the csv>"**

$TempCSVlocation = "C:\PerfStats\CDPRTPerformance.csv"

$date = (Get-Date).AddMinutes(-20)

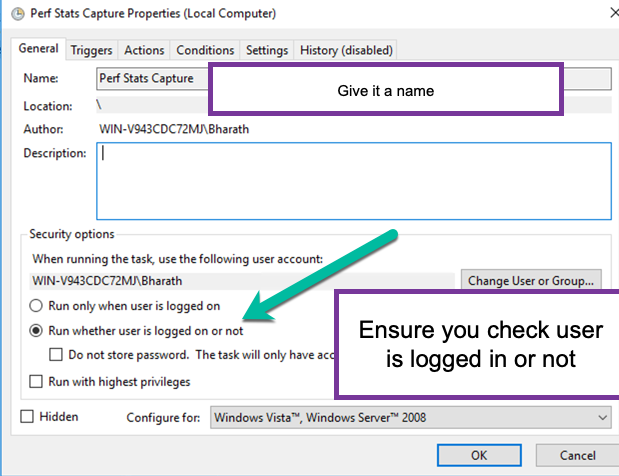
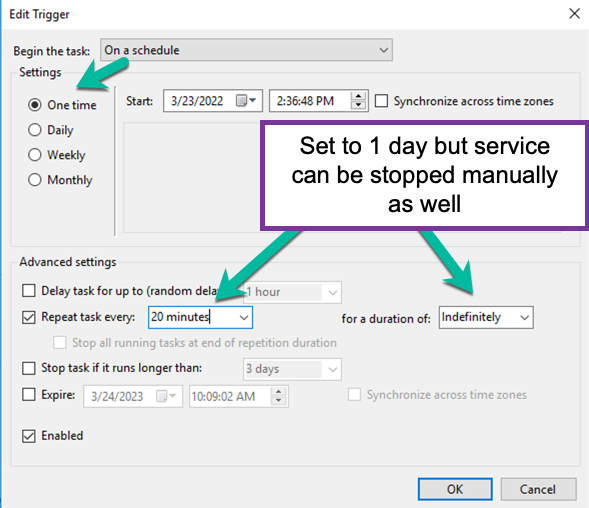
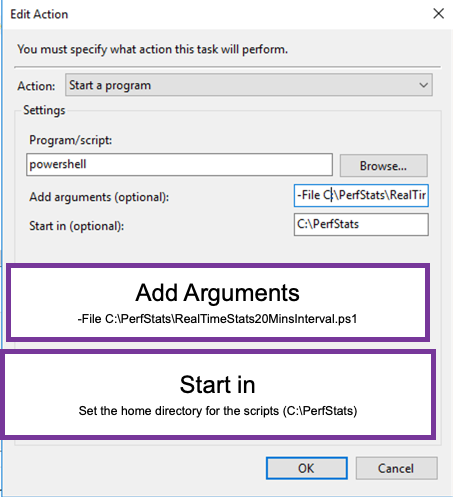
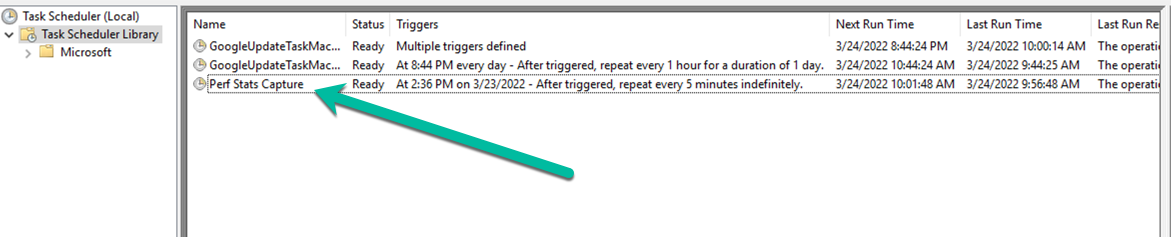
1. Save the file and execute the script to ensure the data can be collected.
2. Proceed to the [Windows Scheduler mechanism](#_fg8biv1vmxp2) to create an automated way to running this script over the desired time window

# 

# 

# 

# Using Windows Scheduler to run the data collection

1. Go to start > start task scheduler
2. Click on "Create Task" and enter the details like below
3. 
4. Click on Triggers
5. 
6. Go to Action (ensure you put in the powershell program and add the cohesity data collection script as an argument as shown below)
7. 
8. **\*\*If you are using the csv extraction method - then you will need to modify the path to run RealTimeStats20MinsInterval-GetCSV.ps1**
9. Click on "Ok" - it should create an entry in your system as follows (in my case - i set it to 5 mins cycles so ignore the screenshot)
10. 
11. Let it run for 24 hours. (In
12. You should see the csv files populate accordingly.