# How to Pull Alerts from SCOM DataBase/DataWare

### Here in this I have written and modified some SQL and PowerShell guires to fetch SCOM alerts

First let's talk about a very (within 7 days) recent alert for a particular server since Db has store recent data so we can this from DB and for this we need to run below given query on **DB:** -

```
select * from dbo.Alert where AlertParams like '%Servername%'
order by TimeRaised desc
```

Here in the above query we have given a parameter with server name so it will only look for alert with this server. But what if we need all alerts from **DB** then we need to remove this parameter and the query will look like this: - (This will give all alerts stored in DB)

```
select * from dbo.Alert order by TimeRaised desc
```

To fetch all alerts from DW: -

```
select * FROM Alert.vAlert
```

To fetch all alert of last month from DW: -

```
select * FROM Alert.vAlert where RaisedDateTime >= DATEADD(day,-30, GETDATE())
```

To fetch all critical alert for last one month from DW:-

```
select * from alert.vAlert where Severity=2 and RaisedDateTime >= DATEADD(day,-30,
GETDATE())
```

To fetch alert for particular alert name (Monitor/Rule) from DW: -

```
select * FROM Alert.vAlert WHERE AlertName='Percentage Logical Disk Free Space is low'
AND RaisedDateTime >= DATEADD(day,-30, GETDATE())
```

Now suppose we want alert for **disk** only then we can create a filter for Alert description and alert name: - **You can modify it as per your needs** (*Run this on DW*)

```
select * FROM Alert.vAlert WHERE Severity=2 and AlertName like '%disk%'and
AlertDescription like '%disk%' and RaisedDateTime >= DATEADD(day,-30, GETDATE())
```

Now we have a question if we want alert older than 7 days then what we can do so for this we need to dig into Dataware since it has the responsibility to store older data.

The below query will fetch alerts from DW which has server name in description field or Server Name in server Name field why we need this coz sometimes in Monitor/Rule settings server name would be alert name so to overcome this issue we have taken 2 fields.

```
Select alert.AlertName, alert.AlertDescription,VME.DisplayName as ServerName,Alert.RaisedDateTime from Alert.vAlertResolutionState as ARS INNER JOIN Alert.vAlertDetail as AD on ARS.AlertGuid = AD.AlertGuid INNER JOIN Alert.vAlert as alert ON ARS.AlertGuid=alert.AlertGuid INNER JOIN vManagedEntity as VME ON alert.ManagedEntityRowId=VME.ManagedEntityRowId wHERE ((path like '%Servername%')) or (displayname like '%Servername%')) and ARS.ResolutionState = '0' and RaisedDateTime between '2018-03-01' and '2018-03-31' Order by RaisedDateTime Desc
```

After running the above query what I have just noticed that there are some more fields which needs to be added to fetch all alerts (But this is not the best practice to add more and more fields) so I came up with this query, the below query will give all alerts related to server name.

```
SELECT AlertName, AlertDescription, RaisedDateTime
FROM [OperationsManagerDW].[Alert].[vAlert] where ManagedEntityRowId IN
(SELECT [ManagedEntityRowId]
FROM [OperationsManagerDW].[dbo].[vManagedEntity] where FullName like
'%Servername%' and RaisedDateTime between '2018-03-01 06:09:15.027' and '2018-03-31
13:09:15.027')
```

### "Now coming to PowerShell"

To fetch alert from Powershell

We need to follow below steps: -

First open elevated PS on any MS and import operations manager module in it.

To import module, we need to run below command on it.

#### Import-module operationsmanager

Once we have imported SCOM module we can run any cmdlets related to SCOM Our main goal is to get alerts from SCOM, so cmdlets to for alerts is as follows: - You can check all cmdlets related alert keyword by typing **get-command \*alert\*** 

```
PS C:\Users\s-gkumar> get-command *alert*
```

#### Name

\_\_\_\_

Add-SCOMAlertResolutionState

**Get-SCOMAlert** 

Get-SCOMAlertHistory

Get-SCOMAlertResolutionSetting

Get-SCOMAlertResolutionState

Remove-SCOMAlertResolutionState

Resolve-SCOMAlert

Set-SCOMAlert

Set-SCOMAlertResolutionSetting

To fetch all alerts, we can run command on PS: -

#### **Get-scomalert**

# PS C:\Users\s-gkumar> Get-SCOMAlert\_

• To fetch all attributes/parameters related to alerts, we can use below command

#### Get-scomalert | gm

To fetch all critical alerts

## get-scomalert -criteria 'Severity>=2'

To fetch all New alerts

### get-scomalert -criteria 'ResolutionState=0'

Closed Critical Alerts

#### get-scomalert -criteria 'ResolutionState=255 AND Severity>=2'

• New Critical Alerts

### get-scomalert -criteria 'ResolutionState=255 AND Severity>=2'

Closed Warning Alerts

### get-scomalert -criteria 'ResolutionState=255 AND Severity>=1'

New Warning Alerts

# get-scomalert -criteria 'ResolutionState=0 AND Severity>=1'

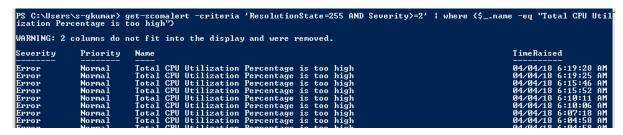
Now fetching alert with particular name and particular time

Get-SCOMAlert | where{(\$\_.name -like "alertname") -and (\$\_.timeraised -gt (datefrom)) -and (\$\_.timeraised -lt (dateto))

### Now merging quires and creation of filter

 Now we are going to fetch all closed, critical alert for CPU Utilization so the query would be as follows: -

get-scomalert -criteria 'ResolutionState=255 AND Severity>=2' | where {\$\_.name -eq "Total CPU Utilization Percentage is too high"}



Now we are going to add some parameters which we are required

get-scomalert -criteria 'ResolutionState=255 AND Severity>=2' | where {\$\_.name -eq "Total CPU Utilization Percentage is too high"} | select

Monitoring Object Display Name, Name, Severity, Resolution State, Time Raised, Parameters, Net Bios Computer Name (Computer Name) and Computer (Computer Name)

Now we if need to export them into sheet, so we can run below command

get-scomalert -criteria 'ResolutionState=255 AND Severity>=2' | where {\$\_.name -eq "Total CPU Utilization Percentage is too high"} | select

MonitoringObjectDisplayName,Name,Severity,ResolutionState,TimeRaised,Parameters,NetBiosCompute rName | export-csv c:\CPUAlertall.csv

Hope this all will help you to fulfil your requirements, you can modify these queries as per your requirements.

Note: - in SQL guery server name would be only server name not FQDN.

For any assistance you can write me to gouravrathore23@gmail.com or can reach me on below channels.

**Author: - Gourav Kumar** 

**Professional & Social Channels: -**

https://www.facebook.com/gourabunpredictable

https://www.linkedin.com/in/gouravrathore/

https://social.technet.microsoft.com/profile/gouravin/