Data visualization techniques with SCOM & OMS Log Analytics

Finding your possibilities with SCOM-Bob Cornelissen
What about Bob

Bob Cornelissen, MSc
Managing Consultant for BICTT group
6x Microsoft MVP Cloud & Datacenter Management
Working with SCOM since 2000 and OMS since early Advisor
Author – Mastering SCOM 2012
Treasurer and co-Founder of
Windows Management User Group NL
Goal

Make better use of data coming from SCOM and OMS Log Analytics while keeping your cool
A CRASH COURSE IN
TEXAS WEATHER

Hot
Drier
Humid
Sticky

THE FOUR SEASONS

JANUARY SUMMER SUMMERER CHRISTMAS

Blizzard 118
Agenda

• General use of SCOM
• What’s there?
• Inventory
• Web Console in 1801
• Reporting
• Log Analytics
• PowerBI
General use of SCOM

Do you recognize this?

- Using the top level Active Alerts screen
- Somebody selecting all alerts and close them
- Looking only at Red alerts
What’s there?

- Hundreds of views by product
- Alert, State, Performance, Diagram
- Distributed Applications
What’s there?

- Custom dashboards (SQL)
- SCOM 2012+ dashboards
- Reports
- Third-Party Dashboarding solutions
Inventory

- Discovered Inventory is your friend
  - SCOM is not a CMDB
  - But it has a lot of configuration data
- Class targets for views or monitors
- View/Export configuration data
Getting data from SCOM discovered inventory
Export Discovered Inventory

$MyEngines = get-scomclass -Displayname "SQL Server 2016 DB Engine" |get-scomclassinstance

$MyEngines | select
@{Label=“Computer”;Expression= {$_.'[Microsoft.Windows.Computer].PrincipalName’}}, DisplayName,
@{Label=“Authentication”;Expression= {$_.'[Microsoft.SQLServer.2016.DBEngine].AuthenticationMode’}},
@{Label=“Port”;Expression= {$_.'[Microsoft.SQLServer.2016.DBEngine].TcpPort’}},
@{Label=“Account”;Expression= {$_.'[Microsoft.SQLServer.2016.DBEngine].Account’}}
| Export-CSV -notype C:\Scripts\sqlinstances.txt
SCOM Web Console in 1801

- We came from .Net+Ajax to Silverfreakinglight to HTML5-ish
- Native SCOM Web Console now full HTML5 in version 1801
- Add customized dashboards with widgets
SCOM 1801 Web Console
Reporting

- Reports reports reports
- Hundreds of GB or +
- Stakeholders

- Refer to yesterday’s session on SCOM Reporting

OMS - Log Analytics

- Specifically Log Analytics and Security
- Query based visualization
Log Analytics

- Custom visualization with Log Analytics
- Check out the 2 PM session from Marcel Zehner, The OMS Solutions Bakery - how to build a custom solution in 60 minutes
Log Analytics

- View Designer
- Or...
- Bring data to PowerBI
- Dashboard from there
Log Analytics to PowerBI

- From LA create query
- Click PowerBI button
- Copy query into PowerBI
- Connect
- Start visualizing your data
Show me
PowerBI System Up Time
Questions?

Yes, I ❤ Texas BBQ

Hang on, first other slides
House of Tails
Official charity, low overhead
Street dogs in Thailand
Food, shelter, health
Facebook: STHouseOfTails
www.houseoftails.org
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<td>2/8: 10:30</td>
<td>Wren</td>
<td>Waterway 6</td>
<td>Advanced Analytics in Azure</td>
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<td>2/8: 11:45</td>
<td>Fuller</td>
<td>Alden Bridge</td>
<td>Operations Manager (SCOM): Today &amp; Tomorrow</td>
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<td>The OMS Solutions Bakery - how to build a custom solution in 60 minutes</td>
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<td>2/9: 3:30</td>
<td>Wren</td>
<td>Waterway 6</td>
<td>Management in Azure: The Big Picture</td>
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Questions?

And Yes, I ❤️ Texas BBQ

Due to time constraints we ask Natalya to hold her questions until others had a chance 😊