



MP UNIVERSITY

WEDNESDAY OCTOBER 27

MP University Agenda

Time (ET)	Session Title	Presenter
8:00	Introductions & Kick-off	Silect
8:10 – 9:00	Monitoring Roadmap with SCOM	Aakash Basavaraj Microsoft
9:00 – 10:00	Management Pack Authoring Tools and Techniques	Mike Sargent Silect
10:15 – 11:00	Monitoring web-based API's in SCOM – POC Ninja Style	Bob Cornelissen Topqore
11:00 – 11:30	M365 MP Deep Dive	Harold Dyck & Mike Sargent Silect
11:45 – 12:45	Demo using advanced Management Pack fragments for monitoring applications: processes, ports, SQL queries, and adding automated recoveries.	Kevin Holman Microsoft
12:45	MP University Wrap-Up	Silect

Real World Customer Requests and Issues

Monitoring for Processes, Ports,
SQL Queries, Recoveries

Kevin Holman
Customer Engineer



Real World Customer Requests

Monitor a Process

Monitor Port availability

Monitor a synthetic SQL query

Add recoveries to any monitor

Monitor Process Count

Customer Request:

- Add a process monitor to an existing MP
 - Already using fragments
- Configurable
 - Process Name
 - Frequency
 - Min Process Count
 - Max Process Count
 - Consecutive failures (MatchCount)

Monitor Process Count

DEMO

Monitor Process Count using Wildcards

Customer Request:

- Monitor processes that match a naming wildcard
- Configurable
 - Process Name Wildcard
 - Frequency
 - Min Process Count
 - Max Process Count

Monitor Process Count using Wildcards

DEMO

Monitor Process Performance

Customer Request:

- Monitor process performance counters
- Configurable
 - Perfmon Counter Name
 - Process Name
 - Frequency
 - Threshold
 - Consecutive samples over threshold

Monitor Process Performance

DEMO

Monitor Port Availability

Customer Request:

- Monitor TCP Port availability for an application
- Why not Port monitoring Template?
- Use native modules where possible
- Configurable
 - Port Number

Monitor Port Availability

DEMO



Monitor a SQL Query

Customer Request:

- Monitor a SQL Query for expected output
- Configurable
 - SQL Server
 - SQL DB Name
 - SQL Query
 - Frequency
 - Row Count Threshold

Monitor a SQL Query

DEMO



Add Recoveries to any Monitor

Customer Request:

- Need to easily be able to add a PowerShell Script recovery action to any existing Monitor
- Configurable
 - Execute on State (Error or Warning)
 - Monitor ID

Add Recoveries to any Monitor

DEMO

Recap:

- Created Application MP
- Dynamically discovered the Application
- Added Folders and Views
- Monitored Process Count
- Monitored Process Performance
- Monitored Port availability
- Monitored SQL queries
- Added Recoveries

What's available NOW?

> 108 fragments!

- *Discoveries*
 - *Reg Key / Reg Value*
 - *PowerShell Script*
 - *VBScript*
 - *Unix Apps*
 - *WMI query*
- *Views*
 - *Folder + Alert + State + Perf*
 - *Folder + Alert + State*
- *Monitors*
 - *Performance*
 - *Perf then Script*
 - *Registry (Exists or Content match)*
 - *Services****
 - *SNMP*
 - *UNIX Shell Commands*
 - *Script (PowerShell and VBScript)*
- *Rules*
 - *Event Log Alerts*
 - *Event Log Repeated*
 - *Event Log Correlated*
 - *SNMP Traps*
 - *Text logs*
 - *Timed Scripts PowerShell*
 - *Collect Performance*
- *Groups*
 - *Application instances*
 - *Windows Computers*
 - *Windows Computers + Watchers*
 - *AD, SQL query, Posh based Groups*
- *Tasks*
 - *Run a command (Agent)*
 - *PowerShell Script (Agent)*
 - *VBScript (Agent)*
 - *Console Task*

Resources

Kevin Holman's Fragment Library

<https://github.com/thekevinholman/FragmentLibrary>

Visual Studio Authoring Extensions

<https://www.microsoft.com/en-us/download/details.aspx?id=30169>

Step By Step for VSAE

<https://kevinholman.com/2016/06/04/authoring-management-packs-the-fast-and-easy-way-using-visual-studio/>

Silect MP Author Professional

<http://www.silect.com/mp-author-professional/>