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nordic infrastructure conference

The premium event for IT-professionals

Feb. 1-3rd in Oslo Spektrum

Azure Automation + OMS: Better Together

PS C:\> whoami

- Aleksandar Nikolić
  - PowerShell and Azure trainer
  - Cloud and Datacenter Management MVP
  - Microsoft Azure MVP
  - Co-founder of PowerShellMagazine.com
  - @alexandair

What is Azure Automation?

- A platform for automating management of resources and apps

- Process and configuration automation (runbooks, DSC)

- Azure, any cloud, and on-premises
- Windows and Linux (coming soon)

- Eliminate time consuming, error prone, and repetitive tasks

Automation Account

- Automation accounts allow you to isolate your Automation resources

- Associated with a single Azure region

- Note: You cannot manage Automation accounts in Classic portal anymore

Resources

- Automation Resources
  - Runbooks
  - Assets (Shared resources)
  - Jobs
  - Hybrid Runbook Workers
  - DSC Configurations, Nodes, and Node configurations
  - Run As Accounts
- **NEW** OMS Resources (Related resources)
  - Solutions
  - Workspace

Authentication to manage Azure Resources

- Run As Accounts
  - When you create a new Automation account you can have Run As accounts created too.

- Azure Run As account
  - Service principal with certificate
  - Contributor role **at the subscription level**
  - Manage **ARM** resources from runbooks
  - Assets: AzureRunAsCertificate, AzureRunAsConnection

- Azure Classic Run As account
  - Certificate
  - Manage **ASM** resources from runbooks
  - Assets: AzureClassicRunAsCertificate, AzureClassicRunAsConnection

- 4 tutorial runbooks

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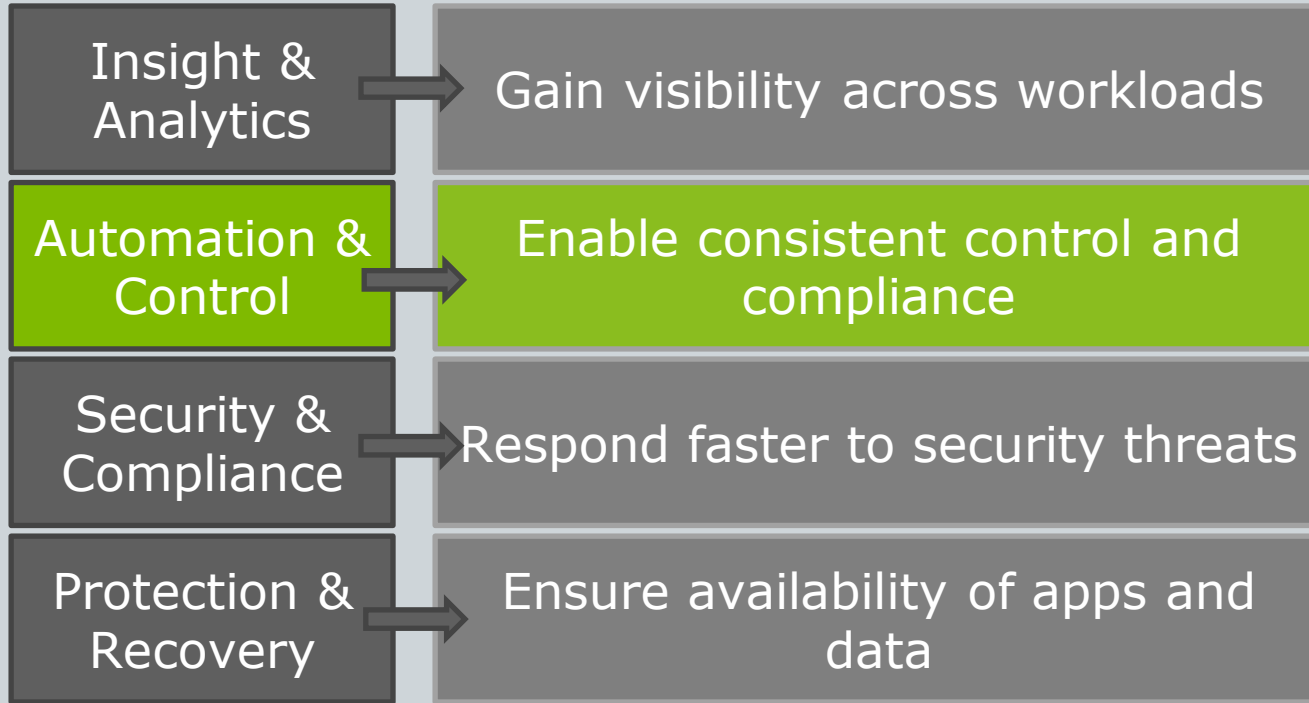
Demo
Azure Automation

What is OMS?

- A cloud-based IT management solution

- Manage and protect your on-premises and cloud environments

- Can integrate with SCOM
- Can provide a full hybrid management experience

- Windows and Linux

- Management solutions
  - Microsoft, 3rd-party, community

OMS Workspace

- A workspace is a logical container where your management data is stored.

- It provides you a way to partition data between different teams in your organization

- OMS workspace needs to be associated with Azure subscription

- OMS website (https://mms.microsoft.com) or

- Azure Portal > Log Analytics

Azure Automation and OMS

Insight & Analytics	Gain visibility across workloads
Automation & Control	Enable consistent control and compliance
Security & Compliance	Respond faster to security threats
Protection & Recovery	Ensure availability of apps and data

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Linking Automation Account to OMS

- "Linked account must be in the same Azure subscription, resource group, and location as a workspace."

- They must also be in the same pricing tier

- EUS/EUS2, WEU, SEA, ASE

Demo
Operations Management Suite (OMS)

Forward Azure Automation job data to OMS

- Job logs and job streams are visible in the Azure portal, or with PowerShell, for individual jobs and this allows you to perform simple investigations

- Automation can send runbook job status and job streams to OMS Log Analytics workspace
  - Get insight on your Automation jobs
  - Trigger an email or alert based on your runbook job status (for example, failed or suspended)
  - Write advanced queries across your job streams
  - Correlate jobs across Automation accounts
  - Visualize your job history over time

Demo
Forward Azure Automation job data to OMS

Solutions in Marketplace

- Start/Stop VMs during off-hours (preview)

- Provides a wizard to configure settings
  - You can create a new or choose an existing OMS workspace
  - You can link to a new or an existing Automation account

- Creates all Automation resources that are needed (runbooks, variables, schedules…)

Demo
Solutions/runbooks in Marketplace

Resources

- Azure Automation Blog
  - http://azure.microsoft.com/blog/tag/azure-automation
- Azure Automation Forum
  - http://go.microsoft.com/fwlink/p/?linkid=390561&clcid=0x409
- Azure Automation Feedback
  - http://feedback.azure.com/forums/246290-azure-automation