

Introduction to Microsoft Sentinel

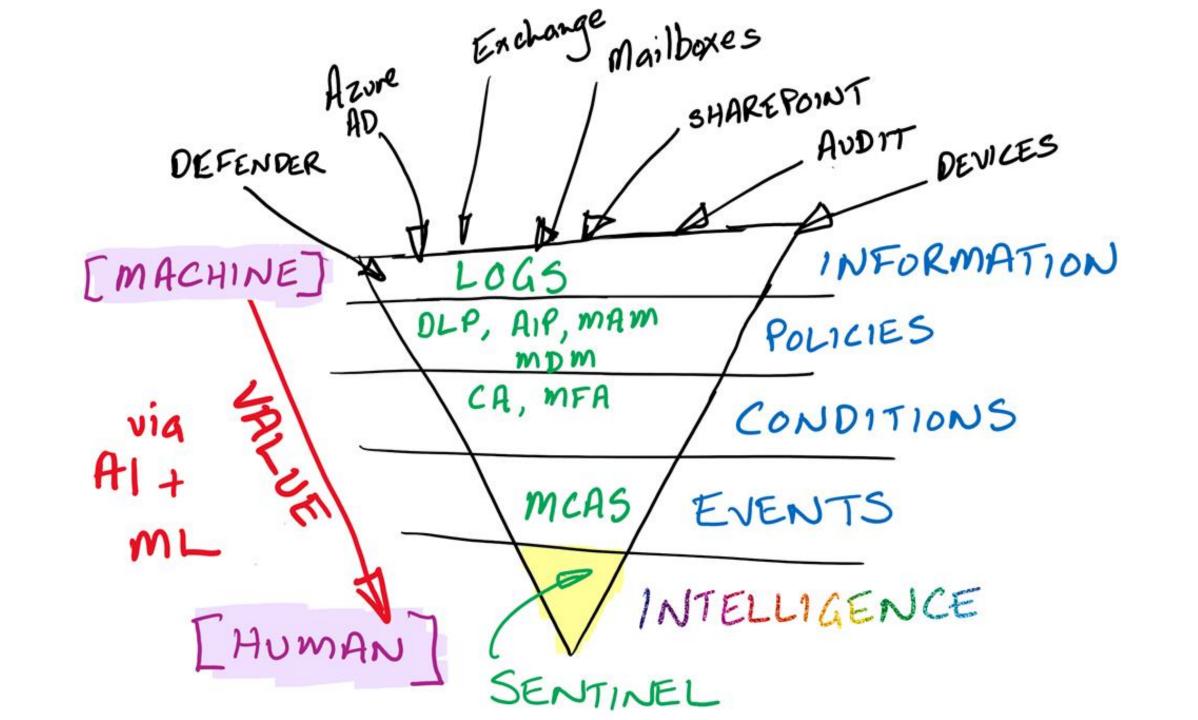
October 2024 @directorcia http://about.me/ciaops

Acronyms

• SIEM – Security Information and Event Management

• SOAR – Security, Orchestration, Automation and Response

Intelligence vs Information



Introducing Microsoft Sentinel

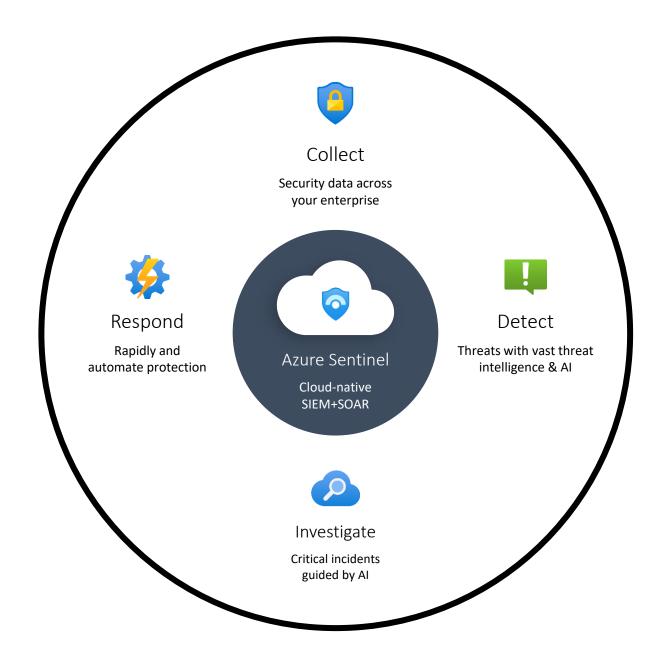
Cloud-native SIEM for intelligent security analytics for your entire enterprise

Limitless cloud speed and scale

Bring your Office 365 + M365 Alerts for Free

Easy integration with your existing tools

Faster threat protection with AI by your side



WIICIOSOIL AZUIE CIAOPS (CIAOPS365.COM) Dashboard > Microsoft Sentinel | Overview (Preview) \times Selected workspace: 'ciaops' Search () Refresh New overview X ✓ General 1 You are currently viewing the new overview experience; you can always switch back to old one Overview (Preview) Logs Incidents (337) **Automation** Last 24 hours (i) Last 24 hours (i) News & guides Search Incident by severity Closed ₩ 31 C0**306** Playbooks health Time saved incidents → Threat management Closed Active New ■ High Informational Medium Low View Workbook > **203** Hours 0 (325)(8) Incidents Workbooks Incidents status by creation time Closed incidents by classification Actions performed (4) Hunting Severity (0) Owner (0) Status (4) Comments (0) True **False** Benign Notebooks Undetermined Positive Positive Positive (305)(0)(0)Entity behavior Threat intelligence 6:00 10:00 14:00 18:00 18:00 22:00 2:00 Mean time to close Mean time to MITRE ATT&CK acknowledge 2.1 days (Preview) Active (0) Closed (51) SOC optimization 1 active automation rules days To improve SOC performance and save time days ✓ Content management configure automation rules > Content hub Manage incidents > Analyze SOC efficiency > Repositories (Preview) Community **Analytics** Data ✓ Configuration Last 24 hours (i) Current status (i) Workspace manager

Microsoft SENTINEL

Core capabilities



Microsoft Services







Security solutions

Analyze & detect threats

Machine learning,

UEBA

Data Ingestion



Automate & orchestrate response



Interactive Attack Visualization,

Azure Notebooks





Playbooks





Other tools

Community

Integrate



Enrichment with Intelligence (Geo location, IP Reputation)









Data Search



Azure Monitor (log analytics)



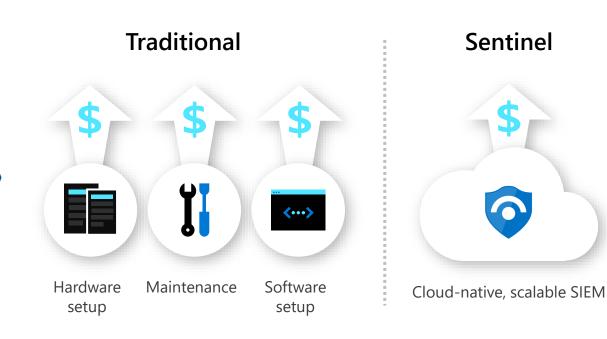
What is Microsoft Sentinel?

No infrastructure costs, Only *pay for what you* use

Predictable Billing with capacity reservations

Flexible model, no annual commitments

Free ingestion for O365 Audit Logs, Azure Activity Logs and M365 Security Alerts



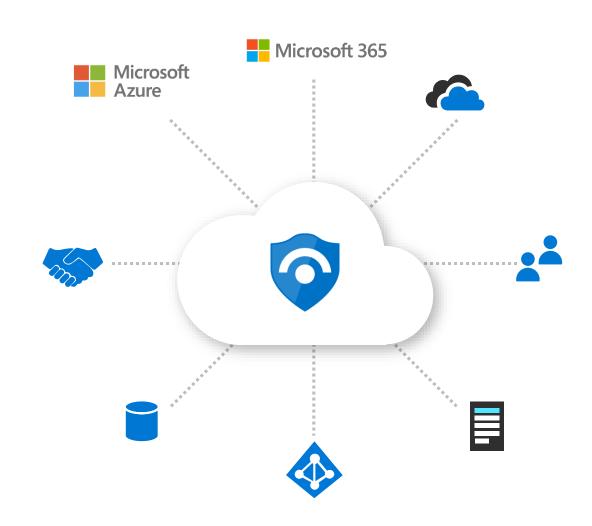
And how it plays into the larger story...

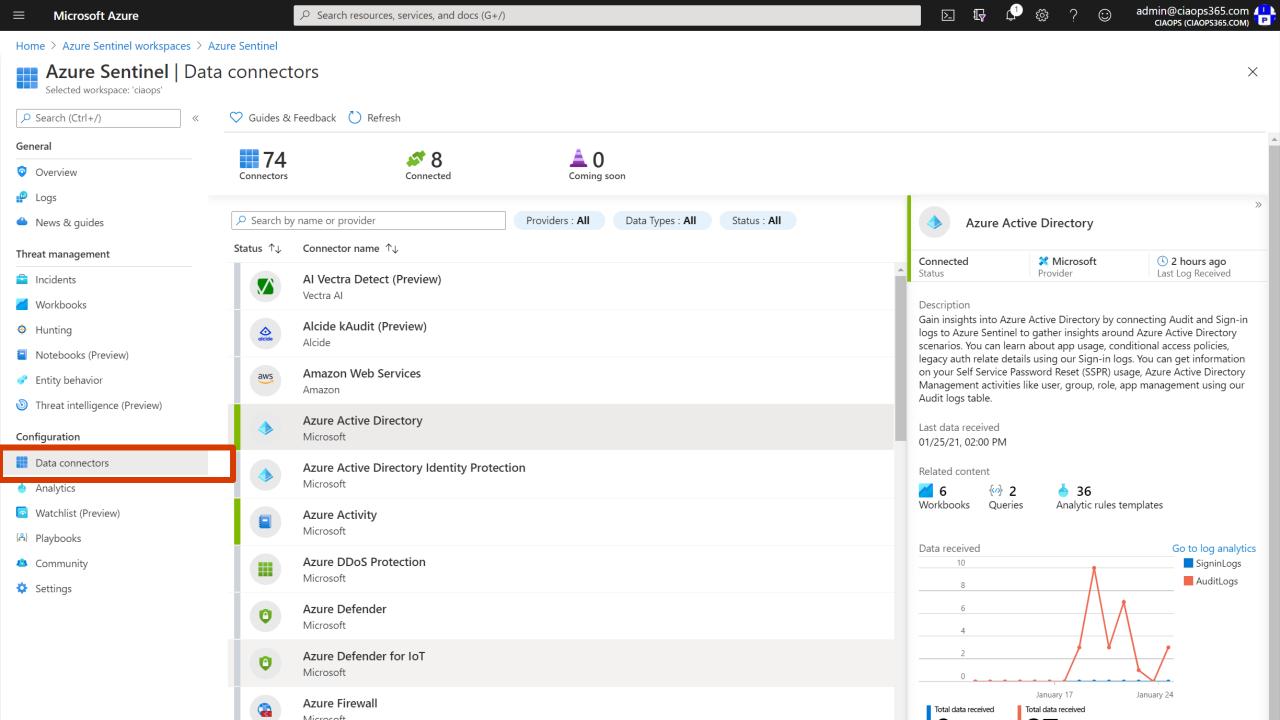
Pre-wired integration with Microsoft solutions

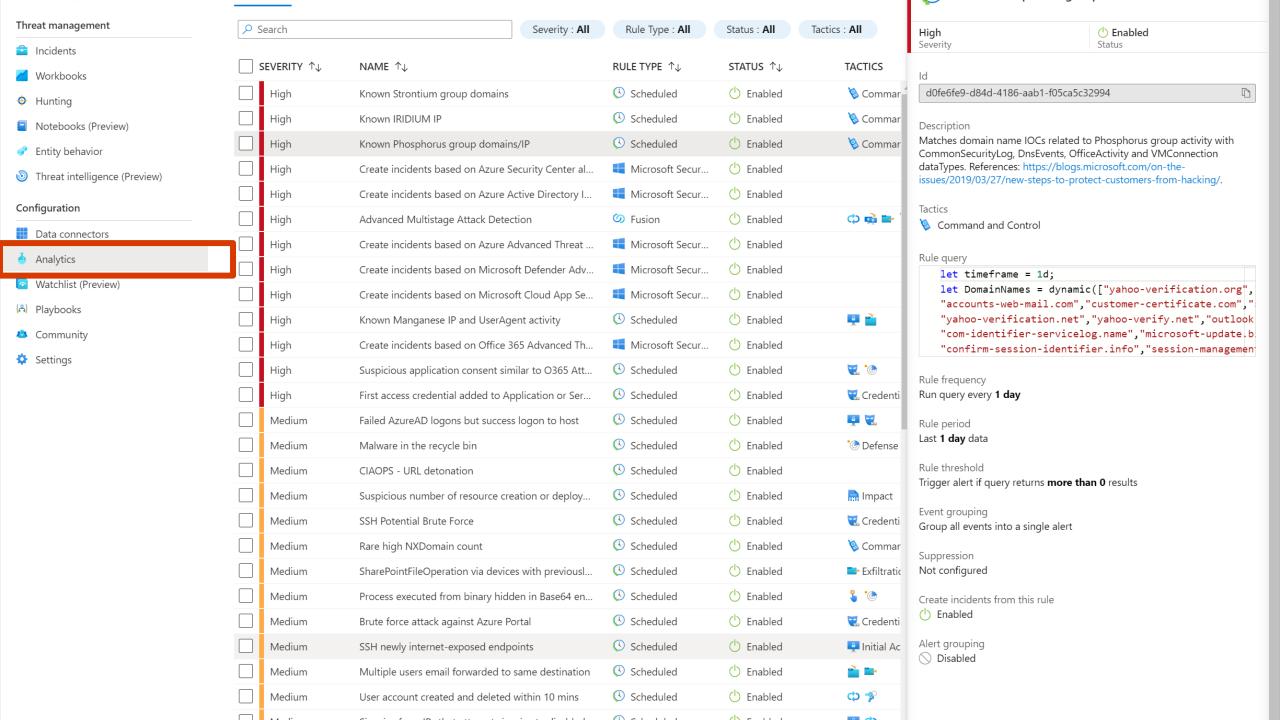
Connectors for many partner solutions

Standard log format support for all sources

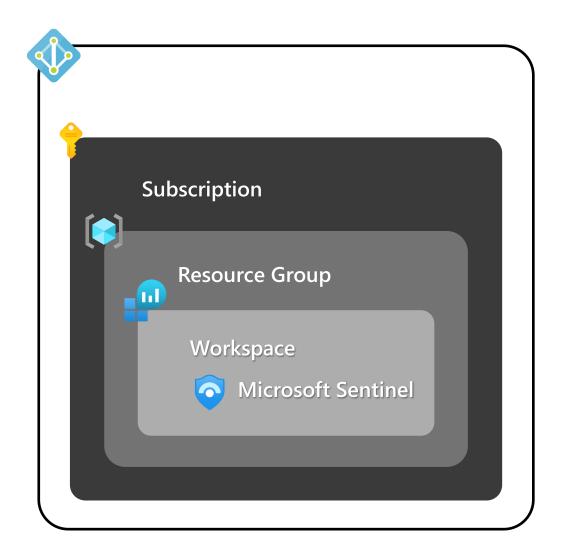
Proven log platform with more than 10 petabytes of daily ingestion

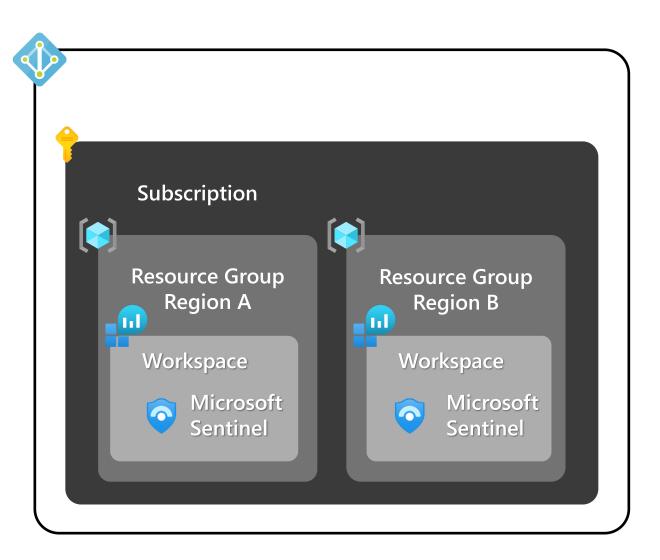




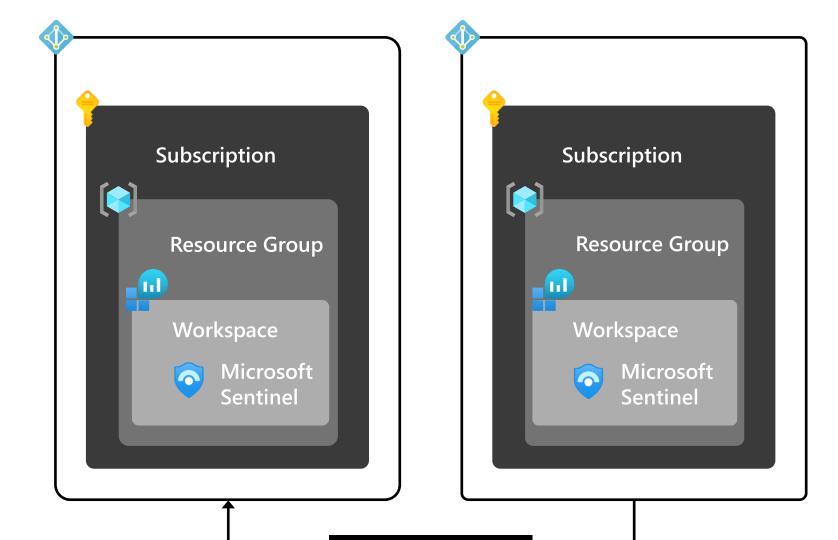


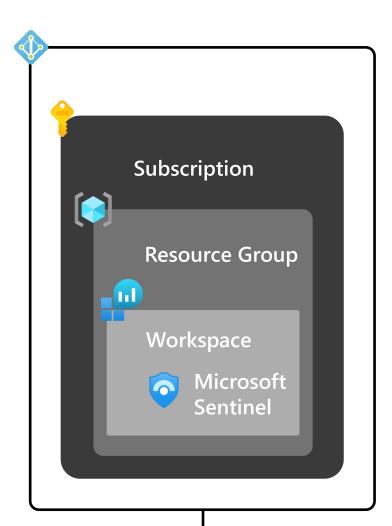
Workspace Design (Single Tenant)





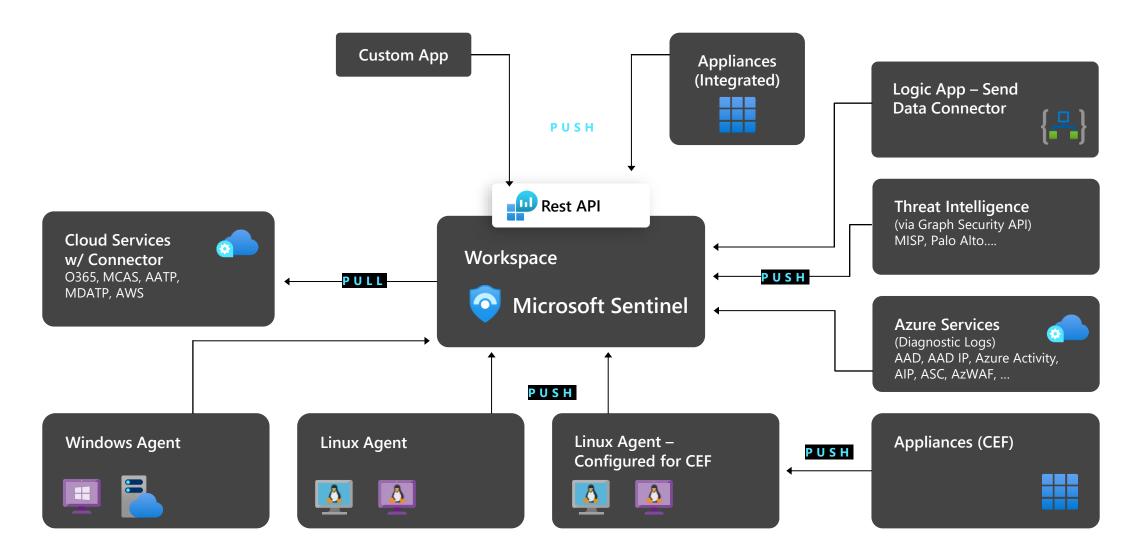
Workspace Design (Multi-Tenant)



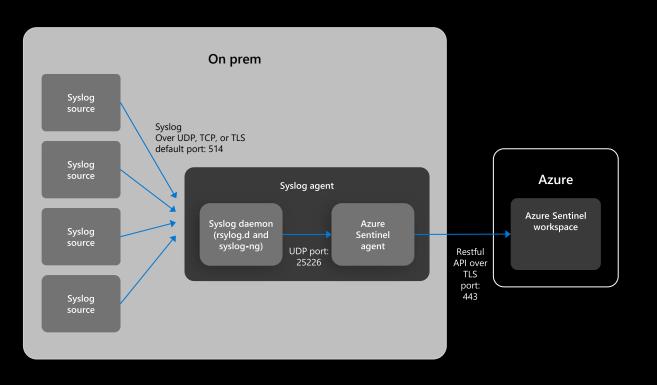


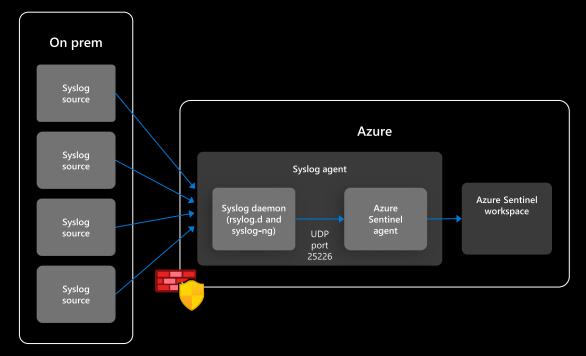
Azure Lighthouse

All the ways data gets in



CEF architecture





Data Collectors (Quick Wins)

Enable 1st Party Connectors that are running in the environment

Most are free

- **O**365
- Azure Activity
- 1st Party Alerts MCAS, AATP, MDATP, AAD IP

Connect AWS

Connect / Configure Azure Diagnostic Logs (Policy)

Deploy Windows/Linux Agent in Azure (built-in Policy)

What data can be ingested at no cost with Microsoft Sentinel?

Azure Activity Logs, Office 365 Audit Logs (all SharePoint activity and Exchange admin activity) and alerts from Microsoft Defender products (Azure Defender, Microsoft 365 Defender, Microsoft Defender for Office 365, Microsoft Defender for Identity, Microsoft Defender for Endpoint), Azure Security Center and Microsoft Cloud App Security can be ingested at no additional cost into both Microsoft Sentinel and Azure Monitor Log Analytics.

Please Note: Azure Active Directory (AAD) audit data is not free and is billed for ingestion into both Microsoft Sentinel and Azure Monitor Log Analytics.

Data Collectors (Next Steps)

Deploy Windows/Linux Agent on-prem / other clouds

Deploy CEF Collection

- Configure CEF collector using configuration script
- Configure source devices ensure they support RFC and CEF.
- See the "Grand List" <u>https://techcommunity.microsoft.com/t5/Azure-</u> <u>Sentinel/Azure-Sentinel-The-Syslog-and-CEF-source-configuration-grand/ba-p/803891</u>

Integrate Threat Intelligence

DEMO

Resources

- Sentinel Quickstart https://docs.microsoft.com/en-us/azure/sentinel/quickstart-onboard
- Connect data sources https://docs.microsoft.com/en-us/azure/sentinel/connect-datasources
- Tutorial: Investigate incidents https://docs.microsoft.com/en-us/azure/sentinel/tutorial-investigate-cases
- Become an Azure Sentinel Ninja https://techcommunity.microsoft.com/t5/azure-sentinel/become-an-azure-sentinel-ninja-the-complete-level-400-training/ba-p/1246310
- Azure Sentinel on Microsoft Learn https://techcommunity.microsoft.com/t5/itops-talk-blog/learn-azure-sentinel-on-microsoft-learn/ba-p/2006346
- Visualise your data https://docs.microsoft.com/en-us/azure/sentinel/tutorial-monitoryour-data
- Azure Sentinel Workbooks 101 https://techcommunity.microsoft.com/t5/azure-sentinel-workbooks-101-with-sample-workbook/ba-p/1409216

CIAOPS Resources



- Blog http://blog.ciaops.com
- Github http://github.com/directorcia
- Free Office 365, Azure Administration newsletter http://bit.ly/cia-o365-tech
- Free Office 365, Azure video tutorials http://www.youtube.com/directorciaops
- Free documents, presentations, eBooks http://slideshare.net/directorcia
- Office 365, Azure, Cloud podcast http://ciaops.podbean.com
- Office 365, Azure online training courses http://www.ciaopsacademy.com
- Office 365 and Azure community http://www.ciaopspatron.com