



Client Insight using Next-Generation Azure Log Capabilities

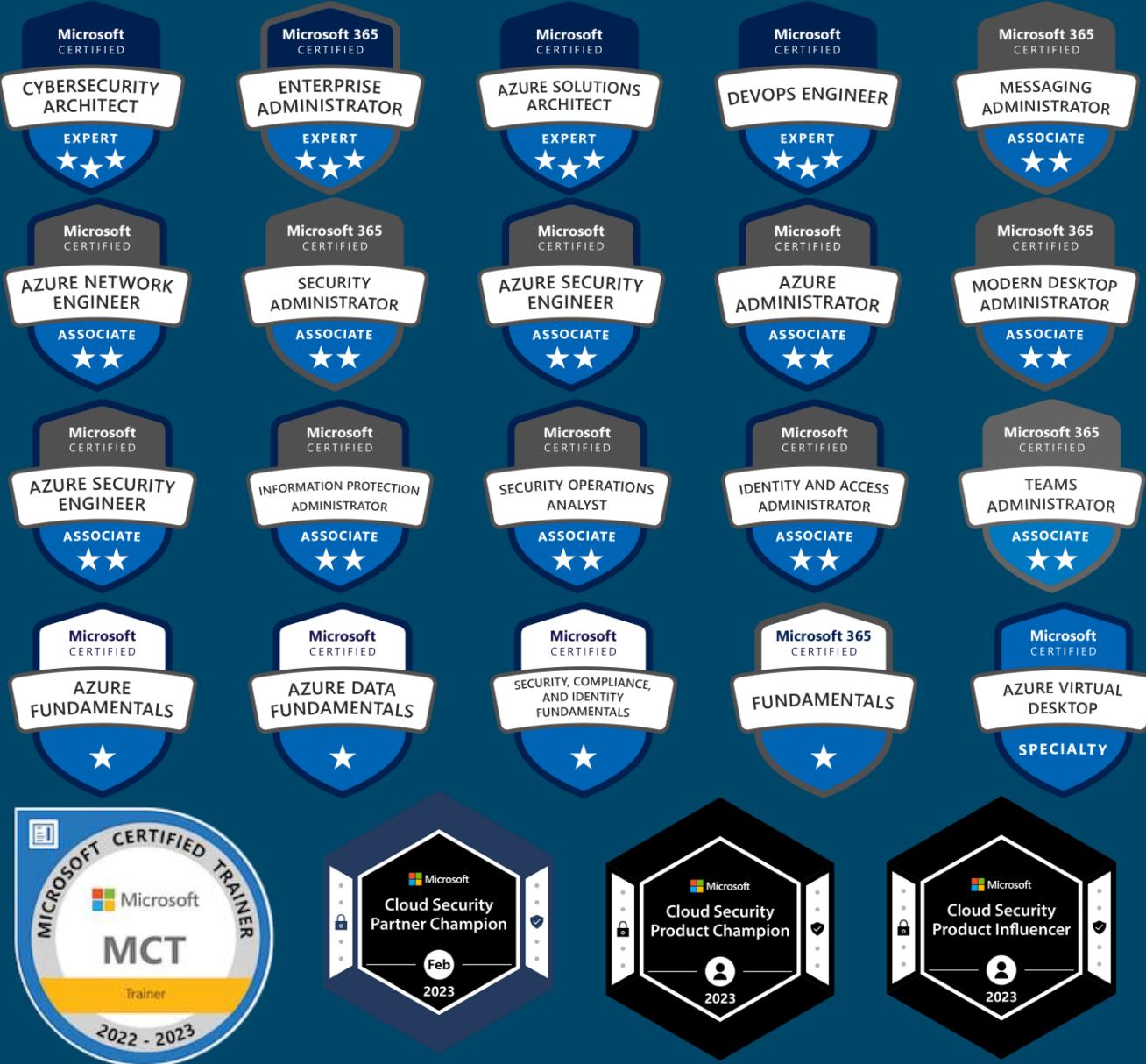
Morten Knudsen



My LinkedIn Profile
(connect)



Speaker – Morten Knudsen



About | Morten Knudsen



Microsoft MVP Security & Azure Hybrid MVP

Microsoft Certified Trainer

Cloud & Security Architect

Microsoft Sentinel Black Belt

Microsoft Defender Black Belt

Microsoft Cloud Security Influencer

Microsoft Sentinel Influencer

Microsoft Defender for Cloud Influencer



Award Categories

Security

First year awarded:

2023

Number of MVP Awards:

1



Session Objective – hopefully something for all 😊

Audience - we come from different background? Competency?



Introduction & Inspiration

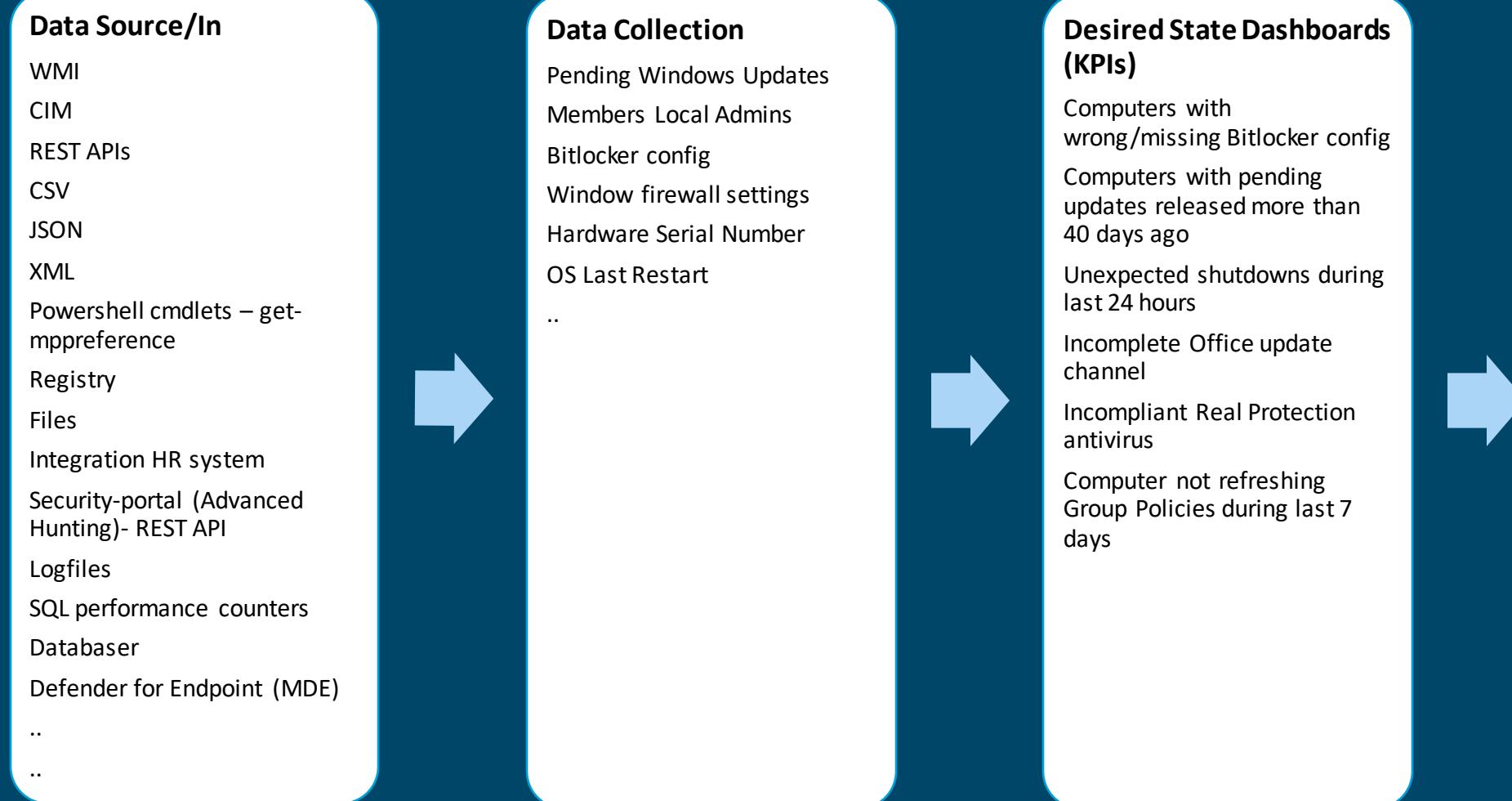
- How you can use the Microsoft technologies to build your own cool log integrations to work with facts – for a little cost, compared to value
- Get inspired about Azure Logging capabilities - use-cases
- try out **showcase**, **ClientInspector** – ready-to-use – free - community 😊

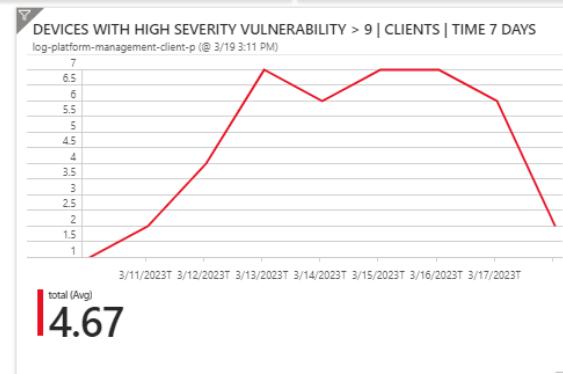
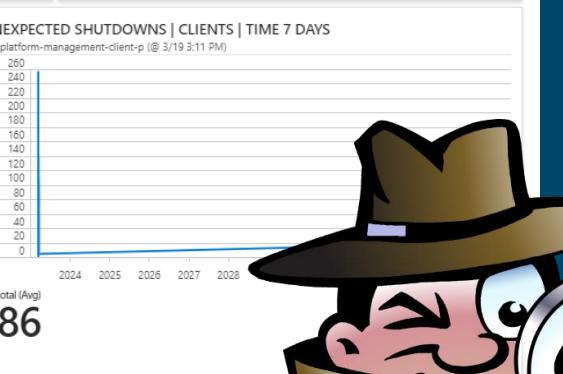


How-to migrate from Azure Logging V1 --> V2 - End of support (Aug 24)?

- MMA → AMA
- HTTP Data Collector REST API → Azure Log Ingestion Pipeline, Log Ingestion API, Transformation and Azure Data Collection Rules (End of support announcement soon)
- Azure LogAnalytics custom tables v1 → v2
- Data manipulation – Schema/Table Management - Data Transformation – Data Upload
- “AnyConnector” → Introduction to your new helper → AzLogDcrIngestPS PS module
- Where can I get more information ?

Showcase: Good Security demands to be and stay in control with the fundamentals !



OTHER PRIMARY ANTIVIRUS (SECURITY CENTER) CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 3	INCOMPLIANT BITLOCKER CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 465	NO RESTART MORE THAN 7 DAYS DAY CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 8	LAST GROUP POLICY REFRESH MORE THAN 7 DAYS AGO CLIE... log-platform-management-client-p (@ 3/19 3:11 PM) 0	INCOMPLIANT LAPS CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 15
INCOMPLIANT DEFENDER AV CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 73	UNSUPPORTED WINDOWS OS BUILD, MDE CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 34	SOON UNSUPPORTED WINDOWS OS BUILD, MDE CLIENTS ... log-platform-management-client-p (@ 3/19 3:11 PM) 1	DEVICES WITH NON-STANDARD MEMBERS LOCAL ADMINIS G... log-platform-management-client-p (@ 3/19 3:11 PM) 2,332	DEVICES WITH HIGH SEVERITY VULNERABILITIES >9 CLIENT ... log-platform-management-client-p (@ 3/19 3:11 PM) 7
UPDATING O365 OFFICE NOT ENABLED CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 572	INCOMPLIANT UPDATE CHANNEL O365 OFFICE CLIENTS CO... log-platform-management-client-p (@ 3/19 3:11 PM) 0	LEGACY OFFICE CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 0	STANDALONE OFFICE 2016 CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 0	INCOMPLIANT WINDOWS FIREWALL CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 1
LAST WINDOWS UPDATE MORE THAN 40 DAYS AGO CLIENT... log-platform-management-client-p (@ 3/19 3:11 PM) 134	CLIENTS WITH PENDING UPDATES OLDER THAN 40 DAYS CLI... log-platform-management-client-p (@ 3/19 3:11 PM) 33	CLIENTS WITH PENDING UPDATES OLDER THAN 40 DAYS, NO ... log-platform-management-client-p (@ 3/19 3:11 PM) 125	UNEXPECTED SHUTDOWNS CLIENTS COUNT log-platform-management-client-p (@ 3/19 3:11 PM) 819	DEVICES WITH COLLECTION ISSUES (FIX WMI) CLIENTS COU... log-platform-management-client-p (@ 3/19 3:11 PM) 14
DEVICES WITH CRITICAL OR HIGH RISKY BROWSER EXT CLIE... log-platform-management-client-p (@ 3/19 3:11 PM) 552	DEVICES WITH HIGH SEVERITY VULNERABILITY > 9 CLIENTS TIME 7 DAYS log-platform-management-client-p (@ 3/19 3:11 PM)  4.67	NO RESTART MORE THAN 7 DAYS DAY CLIENTS TIME 1 MONTH COLLECTI... log-platform-management-client-p (@ 3/19 3:11 PM)  1	UNEXPECTED SHUTDOWNS CLIENTS TIME 7 DAYS log-platform-management-client-p (@ 3/19 3:11 PM)  86	
DEVICES WITH EXPIRED CERTIFICATES, PERSONAL, EXCL. MEM... log-platform-management-client-p (@ 3/19 3:11 PM) 2,307				
DEVICES WITH SOON TO EXPIRE CERTIFICATES (60 DAYS), PER... log-platform-management-client-p (@ 3/19 3:11 PM) 316				

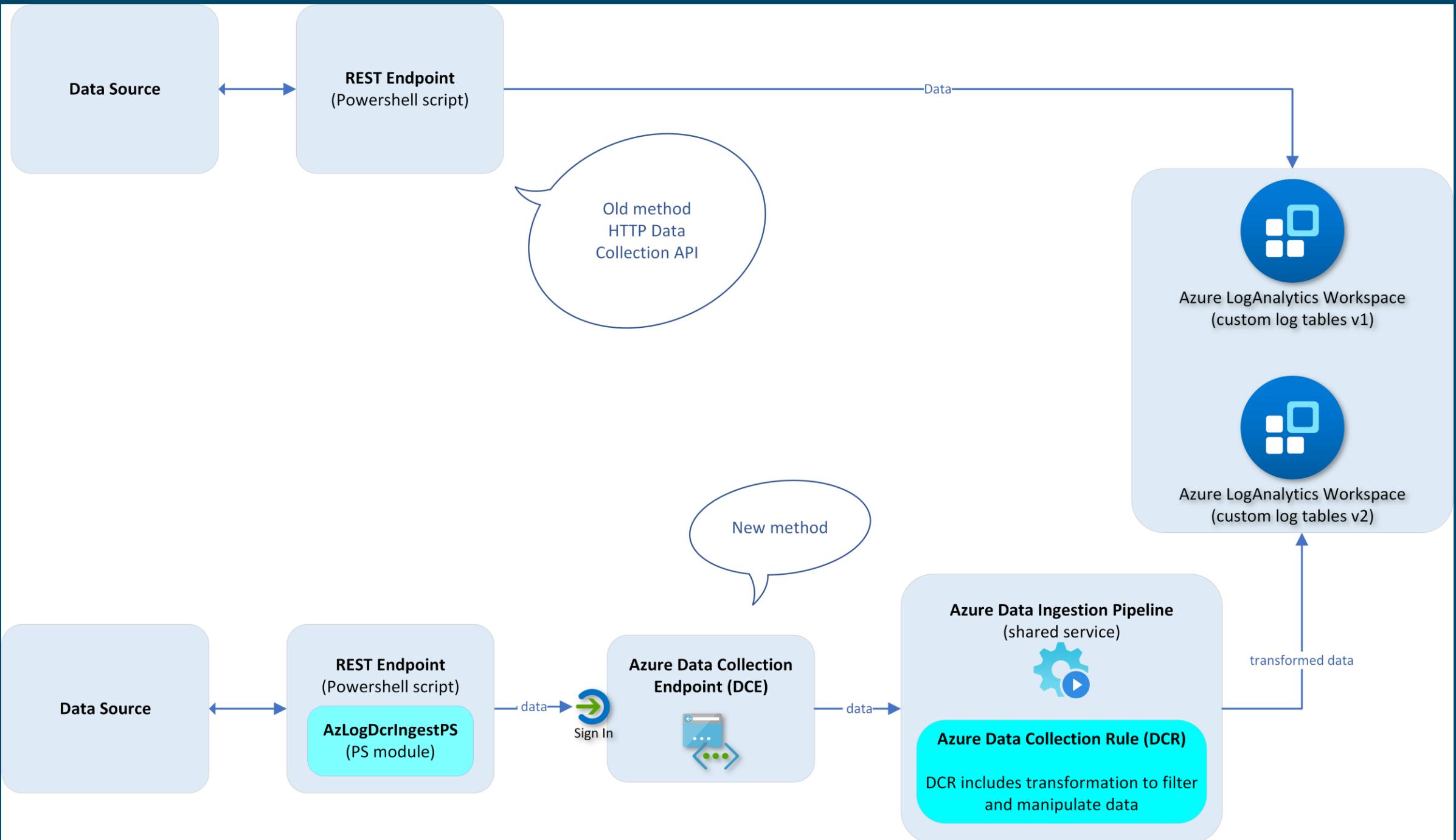
Showcase (how/what):

ClientInspector PS-script
Azure LogAnalytics tables
14x Azure Workbooks
15x Azure Dashboards
AzLogDcrIngestPS



Price per month:
Daily collection from 500 clients
= USD 27 (DKK 200) / month



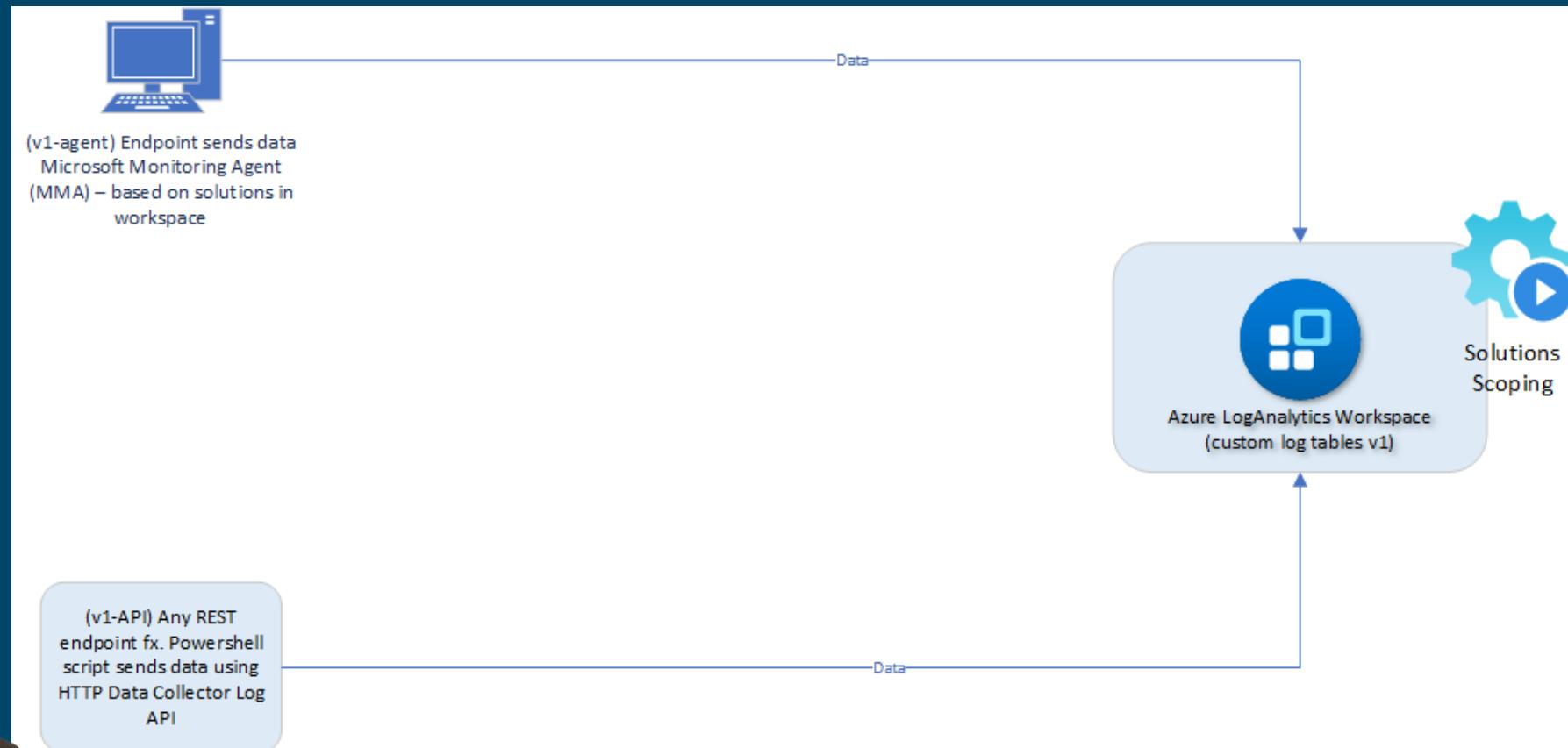


“V1” (legacy)

- Custom tables (v1)
- LA Solutions
- MMA
- Azure Monitor HTTP Data Collector API



Legacy but in
“Public preview”?
what did I miss??



⚠ Note

The Azure Monitor HTTP Data Collector API is in public preview.

Response from product team

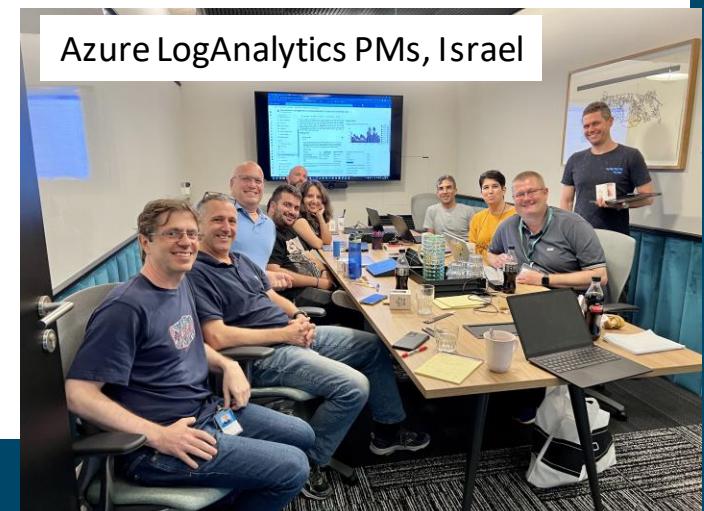
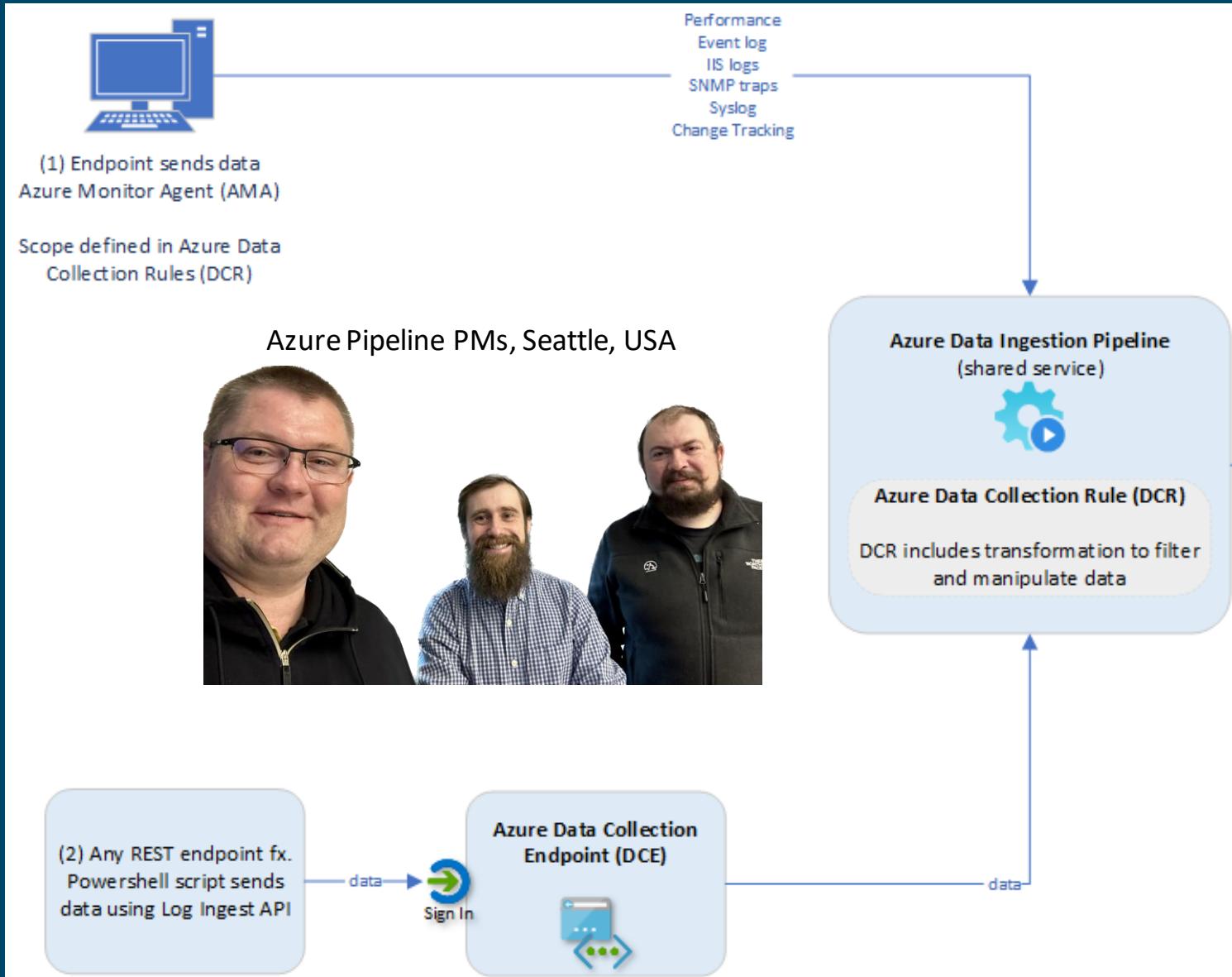
*“Data Collector API was never officially released or considered “complete”
We are going to update Data Collector API documentation as part of its deprecation cycle”*

Azure DCR PMs & Dev Lead, Seattle, USA



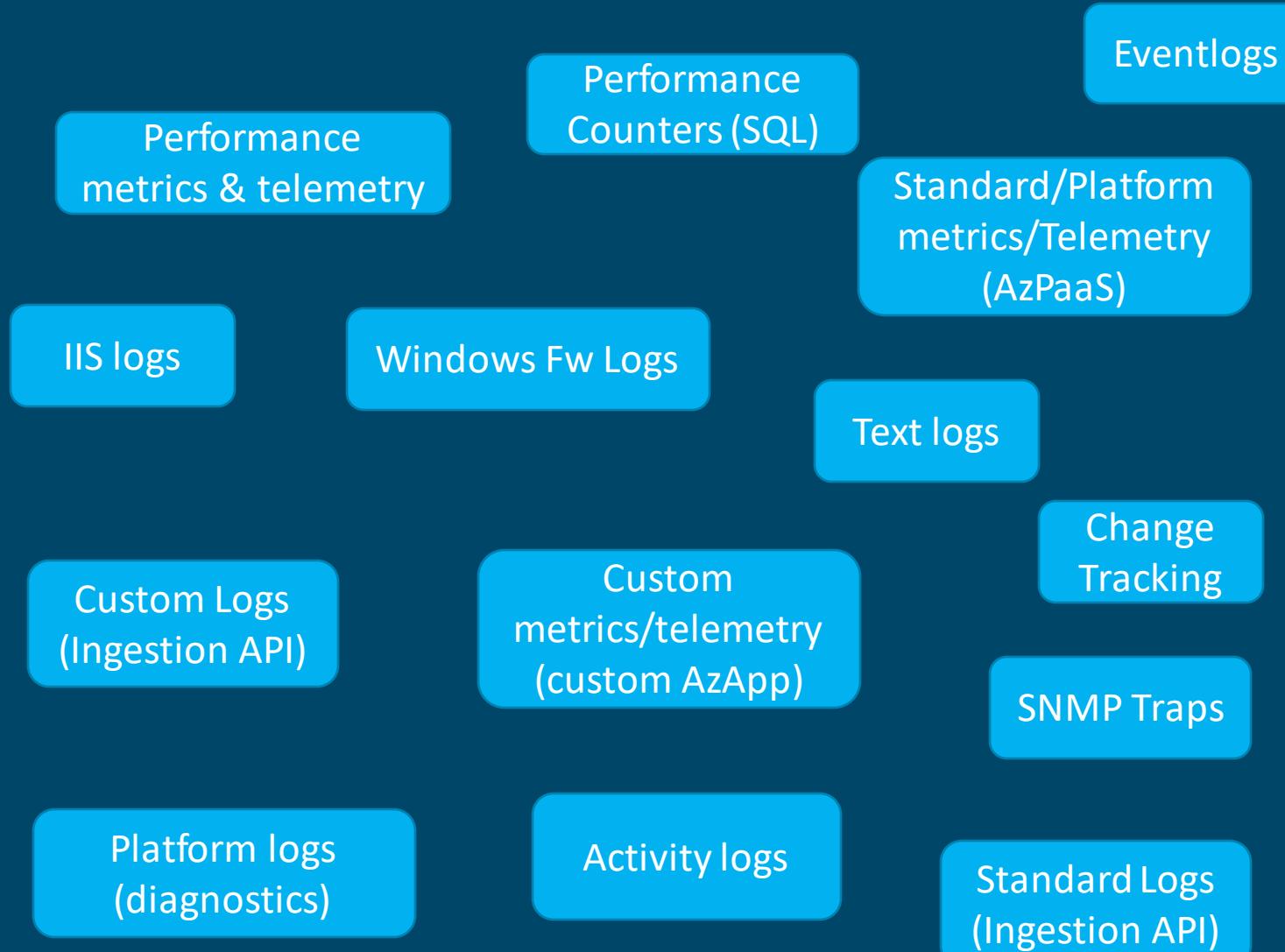
“V2”

Azure Pipeline
DCRs
Transformation
DCEs
Custom tables (v2)



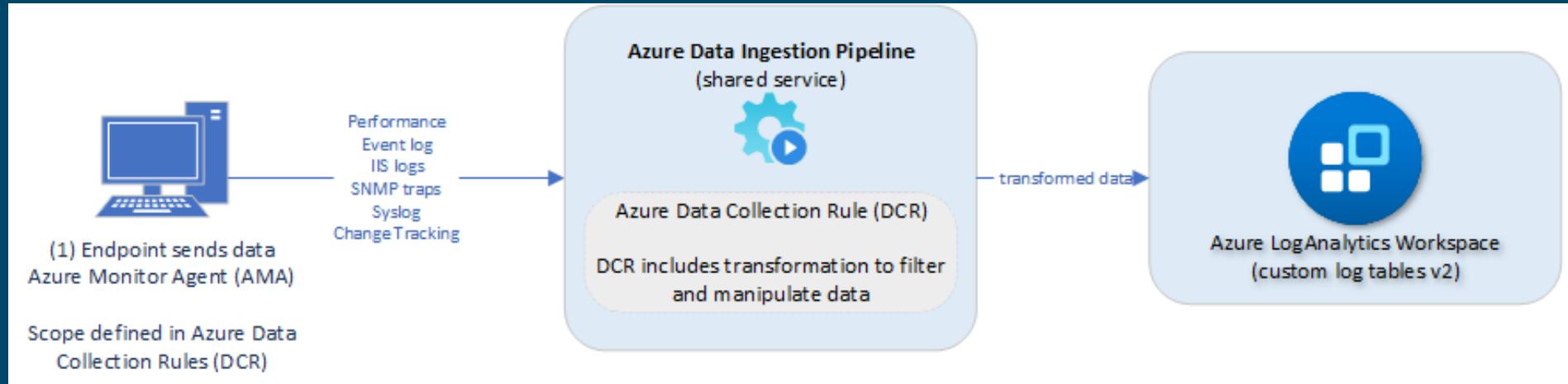
Azure Logging V2 – current data sources

More capabilities are coming – I'm so excited 😊

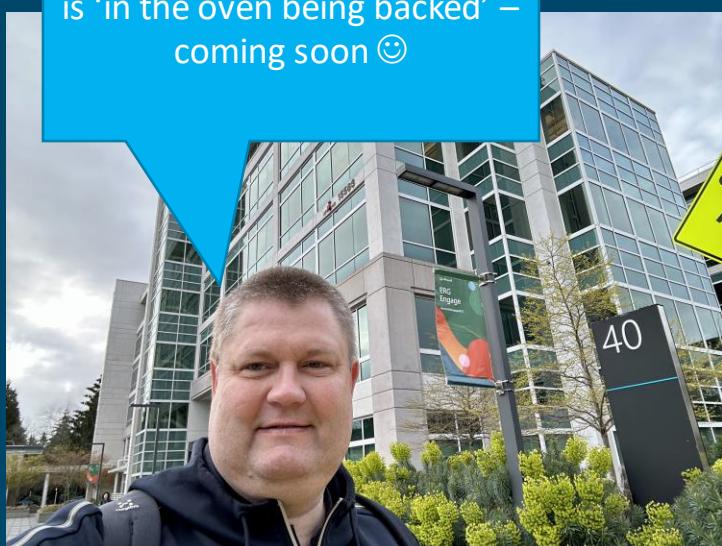


Meet the Azure Monitor PMs
(Seattle, USA)

I'm fan ☺



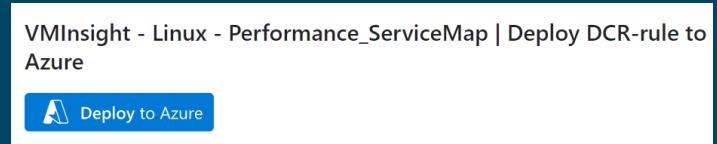
MS HQ - more really cool stuff
is 'in the oven being backed' –
coming soon ☺



- remove data before being sent into LogAnalytics (remove "noise" data/cost optimization, GDPR/compliance)
- add data before being sent into LogAnalytics
- merge data before being sent into LogAnalytics
- better data quality (array data), as array data is converted into dynamic - whereas the old MMA-method would convert array data into strings
- support to send to other destinations
- support for file-based logs collection (txt-logs, Windows Firewall logs)
- advanced support for advanced collection of performance data (including new collection type like SQL performance counters)
- support for SNMP traps logs collection
- security is based on Azure AD RBAC
- naming of data columns are prettier, as they contain the actual name - and not for example ComputerName_s indicating it is a string value

My contribution to get you started with Azure Logging v2 ??

12 new blogs + AzureLogLibrary.net (templates)



Topic	Link
Understanding Azure logging capabilities in depth	https://mortenknudsen.net/?p=1433
How to do data transformation using Workspace transformation for legacy upload methods	https://mortenknudsen.net/?p=1436
Understanding the fundamentals of log-collection with Azure Monitor Agent & Azure Data Collection Rules	https://mortenknudsen.net/?p=1438
Understanding Azure Data Collection Endpoint	https://mortenknudsen.net/?p=1442
Collecting Security events using Azure Monitor Agent	https://mortenknudsen.net/?p=1444
Collecting System & Application events using Azure Monitor Agent	https://mortenknudsen.net/?p=1446
Collecting Performance data using Azure Monitor Agent, VMInsights and ServiceMap	https://mortenknudsen.net/?p=1449
Collecting IIS logs using Azure Monitor Agent	https://mortenknudsen.net/?p=1451
Collecting text logs using Azure Monitor Agent	https://mortenknudsen.net/?p=1453
Collecting Syslogs using Azure Monitor Agent	https://mortenknudsen.net/?p=1455
Collecting CEF Syslogs using Azure Monitor Agent	https://mortenknudsen.net/?p=1457
Tutorial – How to make data transformations using Data Collection Rules?	https://mortenknudsen.net/?p=1440

Challenges with v2 technologies compared to V1

- Schema
 - Req: Creation of DCR + tables before sending data
 - Req: Data Collection EndPoint must exist
 - Req: Schema for data must be defined in both DCR and custom table (v2)
 - Naming conventions & limitations / Prohibited names
 - Handle new properties in source object (merge, overwrite)
 - Property changes -True (string) → True (Boolean) – “internal server 500”
- Upload changes (32 mb -> 1 mb) per JSON (batches, calculations)
- Data manipulations of source data (filtering, remove)
- DCR limitations with large schema
 - create with limited schema first, then full schema
- Azure seconds - timing / delays – dependencies
- Platform – no-internet access, TLS incompatibility



25 functions
+6000 lines of code

The screenshot shows the PowerShell Gallery interface. At the top, there's a navigation bar with links for 'PowerShell Gallery', 'Packages', 'Publish', 'Statistics', 'Documentation', and 'Sign in'. Below the bar is a search bar containing 'Az, etc...'. The main content area displays a package card for 'AzLogDcrIngestPS' version 1.2.38. The card includes a blue PowerShell icon, the package name, its version, download statistics (16,216 downloads, 3,062 downloads of 1.3.0), the last published date (4/13/2023), and an 'Info' section with links to 'Project Site', 'License Info', 'Contact Owners', and 'Report'. A red arrow points to the 'Downloads' count. To the right of the card, there's a brief description of the module's purpose, a list of functions, minimum PowerShell version requirements, installation options (Install Module, Azure Automation, Manual Download), and a command-line snippet for installation. At the bottom of the card, author information is listed: Morten Knudsen | Microsoft MVP | mok@mortenknudsen.net | @knudsenmortendk. There's also a 'Copyright' notice and a link to 'Package Details'.



Home > Monitor | Data Collection Rules >

dcr-clt-InvClientComputerInfoSystemV2_CL Data collection rule | Directory: 2linkIT

Search Delete

Overview Activity log Access control (IAM) Tags

Settings Locks

Configuration Data sources Resources

Automation Tasks (preview) Export template

Support + troubleshooting New Support Request

Resource JSON

dcr-clt-InvClientComputerInfoSystemV2_CL

Resource ID /subscriptions/fce4f282-fcc6-43fb-94d8-bf1701b862c3/resourceGroups/rg-dcr-log-management-client-demo1-t/providers/microsoft.insights/dataCol... API version 2022-06-01

```
1 {
  "properties": {
    "immutableId": "dcr-857e7b752da1400bac1e302c194bf1f3",
    "dataCollectionEndpointId": "/subscriptions/fce4f282-fcc6-43fb-94d8-bf1701b862c3/resourceGroups/rg-dce-log-management-client-",
    "streamDeclarations": {
      "Custom-InvClientComputerInfoSystemV2_CL": {
        "columns": [
          {
            "name": "AdminPasswordStatus",
            "type": "int"
          },
          {
            "name": "AutomaticManagedPagefile",
            "type": "boolean"
          },
          {
            "name": "AutomaticResetBootOption",
            "type": "boolean"
          },
          {
            "name": "AutomaticResetCapability",
            "type": "boolean"
          },
          {
            "name": "BootOptionOnLimit",
            "type": "dynamic"
          },
          {
            "name": "BootOptionOnWatchDog",
            "type": "dynamic"
          },
          {
            "name": "BootROMSupported",
            "type": "boolean"
          },
          {
            "name": "BootStatus",
            "type": "dynamic"
          },
          {
            "name": "BootupState",
            "type": "string"
          },
          {
            "name": "Caption",
            "type": "string"
          },
          {
            "name": "ChassisBootupState",
            "type": "int"
          },
          {
            "name": "ChassisSKUNumber",
            "type": "string"
          }
        ]
      }
    }
  }
}
```

Home > log-management-client-demo1-t

log-management-client-demo1-t | Tables

Log Analytics workspace | Directory: 2linkIT

Search:

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Logs
- Tables** (highlighted with a red arrow)
- Agents
- Usage and estimated costs
- Data export
- Network isolation
- Linked storage accounts
- Properties
- Locks
- Classic
- Legacy agents management
- Legacy custom logs
- Legacy activity log connector
- Legacy storage account logs
- Legacy computer groups
- Legacy solutions
- System center
- Workspace summary (deprecated)
- Service map (deprecated)
- Virtual machines (deprecated)
- Scope configurations (deprecated)
- Monitoring
- Insights
- Alerts
- Diagnostic settings
- Workbooks
- Automation

+ Create | Delete

For the list of tables supporting ingestion-time transformations please refer to [documentation](#)

Showing 27 results

Table name ↑	Type ↑	Plan ↑
InvClientAdminByRequestV2_CL	Custom table	Analytics
InvClientAntivirusV2_CL	Custom table	Analytics
InvClientApplicationsFromRegistryV2_CL	Custom table	Analytics
InvClientApplicationsFromWmiV2_CL	Custom table	Analytics
InvClientBitlockerInfoV2_CL	Custom table	Analytics
InvClientComputerInfoBiosV2_CL	Custom table	Analytics
InvClientComputerInfoLastRestartV2_CL	Custom table	Analytics
InvClientComputerInfoProcessorV2_CL	Custom table	Analytics
InvClientComputerInfoSystemV2_CL	Custom table	Analytics
InvClientComputerInfoV2_CL	Custom table	Analytics
InvClientComputerOSInfoV2_CL	Custom table	Analytics
InvClientComputerUserLoggedOnV2_CL	Custom table	Analytics
InvClientDefenderAvV2_CL	Custom table	Analytics
InvClientEventlogInfoV2_CL	Custom table	Analytics
InvClientGroupPolicyRefreshV2_CL	Custom table	Analytics
InvClientHardwareTPMInfoV2_CL	Custom table	Analytics
InvClientLAPSInfoV2_CL	Custom table	Analytics
InvClientLocalAdminsV2_CL	Custom table	Analytics
InvClientNetworkAdapterInfoV2_CL	Custom table	Analytics
InvClientNetworkIPv4InfoV2_CL	Custom table	Analytics
InvClientOfficeInfoV2_CL	Custom table	Analytics
InvClientVpnV2_CL	Custom table	Analytics
InvClientWindowsFirewallInfoV2_CL	Custom table	Analytics
InvClientWindowsUpdateLastInstallationsV2_CL	Custom table	Analytics
InvClientWindowsUpdateLastResultsV2_CL	Custom table	Analytics
InvClientWindowsUpdatePendingUpdatesV2_CL	Custom table	Analytics

InvClientComputerInfoSystemV2_CL

Schema Editor

Search column:

Azure Columns (4)

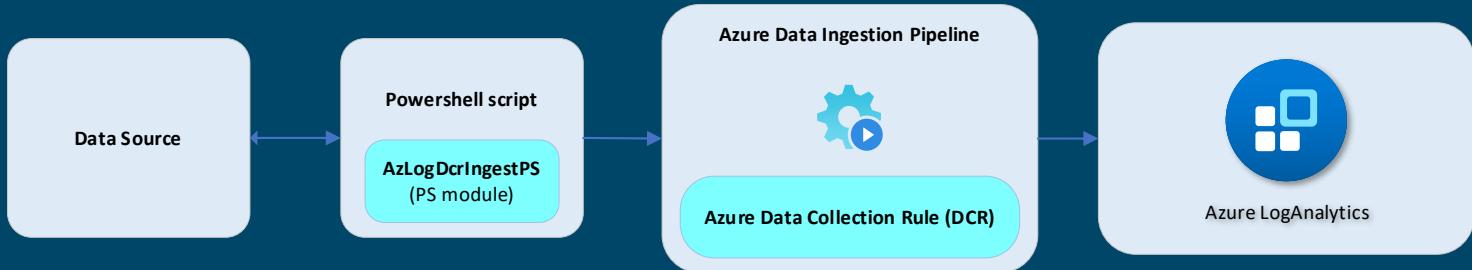
Column name ↓	Description	Type	Show column
_ResourceId	A unique identifier for the resource that the record...	String	<input checked="" type="checkbox"/>
_SubscriptionId	A unique identifier for the subscription that the re...	String	<input checked="" type="checkbox"/>
TenantId		Guid	<input checked="" type="checkbox"/>

Custom Columns (70)

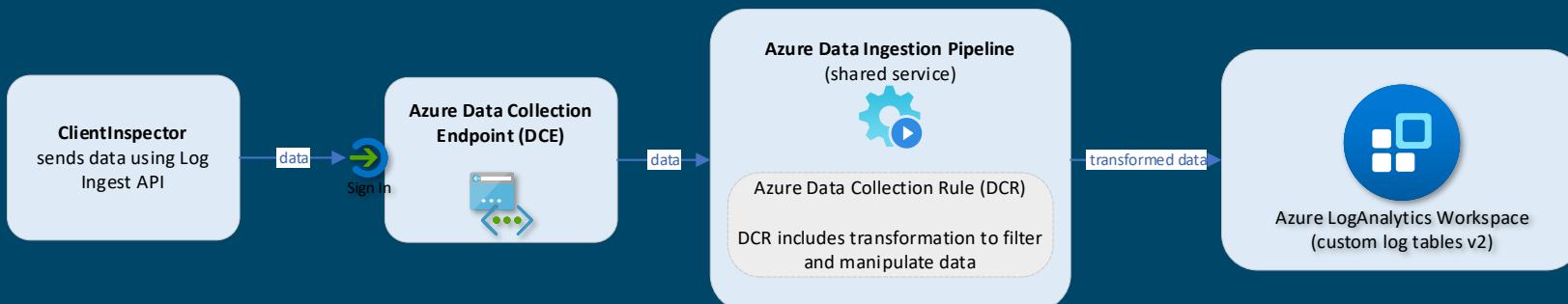
Column name ↓	Description	Type	Show column
AdminPasswordStatus		Int	<input checked="" type="checkbox"/>
AutomaticManagedPagefile		Boolean	<input checked="" type="checkbox"/>
AutomaticResetBootOption		Boolean	<input checked="" type="checkbox"/>
AutomaticResetCapability		Boolean	<input checked="" type="checkbox"/>
BootOptionOnLimit		Dynamic	<input checked="" type="checkbox"/>
BootOptionOnWatchDog		Dynamic	<input checked="" type="checkbox"/>
BootROMSupported		Boolean	<input checked="" type="checkbox"/>
BootStatus		Dynamic	<input checked="" type="checkbox"/>
BootupState		String	<input checked="" type="checkbox"/>
Caption		String	<input checked="" type="checkbox"/>
ChassisBootupState		Int	<input checked="" type="checkbox"/>
ChassisSKUNumber		String	<input checked="" type="checkbox"/>
CollectionTime		Datetime	<input checked="" type="checkbox"/>
Computer		String	<input checked="" type="checkbox"/>
ComputerFqdn		String	<input checked="" type="checkbox"/>
CreationClassName		String	<input checked="" type="checkbox"/>

Use-Case | “AnyConnector” | AzLogDcrIngestPS

- Pull - Retrieve data from any 3rd party source using PS script (intermediate)



- Push - Collect data from endpoint - send data from endpoint (ClientInspector)



Detect local printers – replace with large multi-function printers (prepare business case)

PC replacement – yearly budget – Lenovo / Dell warranty

Cisco SecureX integration (REST API) – get alerts over

Cisco Prime (REST API) – wifi connectivity – which APs + SSID are users connecting to

SQL monitoring (WhoAmI)







Auto refresh : Off

UTC Time : Past 24 hours

PENDING UPDATES OLDER THAN 40 DAYS | CLIENTS | COUNT

log-management-client-demo1-t (@ 3/23 7:19 PM)

5

PENDING UPDATES OLDER THAN 40 DAYS | CLIENTS | SUM BY CLIENTS

log-management-client-demo1-t (@ 3/23 7:19 PM)

Search		
Computer	↑↓	total↑↓
STRV-ACW-LT-01		7
STRV-MEW-DT-02		6
STRV-CEW-LT-03		4
STRV-ACW-DT-01		2
STRV-MOK-LT-02		1

PENDING UPDATES, NO DRV, OLDER THAN 40 DAYS | CLIENTS | COUNT

log-management-client-demo1-t (@ 3/23 7:19 PM)

3

PENDING UPDATES, NO DRV, OLDER THAN 40 DAYS | CLIENTS | SUM BY CLIE...

log-management-client-demo1-t (@ 3/23 7:19 PM)

Search		
Computer	↑↓	total↑↓
STRV-ACW-LT-01		3
STRV-MEW-DT-02		2
STRV-CEW-LT-03		1

LAST WINDOWS UPDATE MORE THAN 40 DAYS AGO | CLIENTS...

log-management-client-demo1-t (@ 3/23 7:19 PM)

0

UPDATE SOURCE MICROSOFT UPDATE | CLIENTS | COUNT

log-management-client-demo1-t (@ 3/23 7:19 PM)

8

UPDATE SOURCE WINDOWS UPDATE | CLIENTS | LIST

log-management-client-demo1-t (@ 3/23 7:19 PM)

0

PENDING UPDATES OLDER THAN 40 DAYS | CLIENTS | LIST

log-management-client-demo1-t (@ 3/23 7:19 PM)

Search																		
Computer	↑↓	UserLoggedIn	↑↓	Title_	↑↓	UpdateClassification	↑↓	UpdateKBPublished	↑↓	LastDeploymentChangeTime	↑↓	CollectionTime	↑↓	TimeGenerated	↑↓	AutoDownload↑↓	AutoSelection↑↓	AutoSel
STRV-ACW-DT-01	2LINKIT\Anne	Lenovo Ltd. - Firmware - 1.0.0.110			Drivers		11/25/2022, 12:00:00 AM	11/25/2022, 12:00:00 AM		3/21/2023, 1:13:04 PM	3/21/2023, 1:13:08 PM				2	1	false	
STRV-ACW-DT-01	2LINKIT\Anne	Hewlett-Packard - Imaging - Null Print - HP Photosmart 6...		Drivers		9/2/2018, 12:00:00 AM	9/2/2018, 12:00:00 AM		3/23/2023, 6:52:01 PM	3/23/2023, 6:52:03 PM				2	1	false		
STRV-ACW-LT-01	2LINKIT\Anne	Apple, Inc. - USBDevice - 486.0.0.0		Drivers		11/20/2020, 12:00:00 AM	11/20/2020, 12:00:00 AM		3/22/2023, 12:15:17 PM	3/22/2023, 12:15:26 PM				2	1	false		
STRV-ACW-LT-01	2LINKIT\Anne	Sikkerhedsopdatering 08-2022 til Windows 11 22H2 for x...		Security Updates		11/10/2022, 12:00:00 AM	11/10/2022, 12:00:00 AM		3/22/2023, 12:15:17 PM	3/22/2023, 12:15:26 PM				2	1	true		
STRV-ACW-LT-01	2LINKIT\Anne	Microsoft Azure Information Protection Unified Labeling ...		Updates		11/28/2022, 12:00:00 AM	11/28/2022, 12:00:00 AM		3/22/2023, 12:15:17 PM	3/22/2023, 12:15:26 PM				0	0	false		
STRV-ACW-LT-01	2LINKIT\Anne	Intel Corporation - System - 2.14.101.1		Drivers		11/1/2022, 12:00:00 AM	11/1/2022, 12:00:00 AM		3/22/2023, 12:15:17 PM	3/22/2023, 12:15:26 PM				2	1	false		
STRV-ACW-LT-01	2LINKIT\Anne	Intel Corporation - SoftwareComponent - 2.17.100.2		Drivers		2/11/2023, 12:00:00 AM	2/11/2023, 12:00:00 AM		3/22/2023, 12:15:17 PM	3/22/2023, 12:15:26 PM				2	1	false		
STRV-ACW-LT-01	2LINKIT\Anne	Lenovo - System - 1.2.0.11		Drivers		2/7/2023, 12:00:00 AM	2/7/2023, 12:00:00 AM		3/22/2023, 12:15:17 PM	3/22/2023, 12:15:26 PM				2	1	false		
STRV-ACW-LT-01	2LINKIT\Anne	2023-01 Opdatering til Windows 11 Version 22H2 til x64...		Critical Updates		1/18/2023, 12:00:00 AM	1/18/2023, 12:00:00 AM		3/22/2023, 12:15:17 PM	3/22/2023, 12:15:26 PM				2	1	true		
STRV-CEW-LT-03	2LINKIT\Caroline	Realtek - Extension - 10.44.0.2		Drivers		11/11/2021, 12:00:00 AM	11/11/2021, 12:00:00 AM		3/23/2023, 2:04:46 PM	3/23/2023, 2:04:48 PM				2	1	false		
STRV-CEW-LT-03	2LINKIT\Caroline	Lenovo - System - 1.2.0.11		Drivers		2/7/2023, 12:00:00 AM	2/7/2023, 12:00:00 AM		3/23/2023, 2:04:46 PM	3/23/2023, 2:04:48 PM				2	1	false		



LOCAL ADMINIS | CLIENTS | MANA... ▾
Shared dashboard

+ Create ⚡ Upload ⚡ Refresh ↗ Full screen | 🖍 Edit 🛡 Manage sharing ▾ ⏪

Auto refresh : Off UTC Time : Past 24 hours

DEVICES WITH NON-STANDARD MEMBERS LOCAL ADMINS G...
log-management-client-demo1-t (@ 3/23 7:21 PM)

8

DEVICES WITH NON-STANDARD MEMBERS LOCAL ADMINS GROUP | CLIENT...
log-management-client-demo1-t (@ 3/23 7:21 PM)

Computer ↑↓

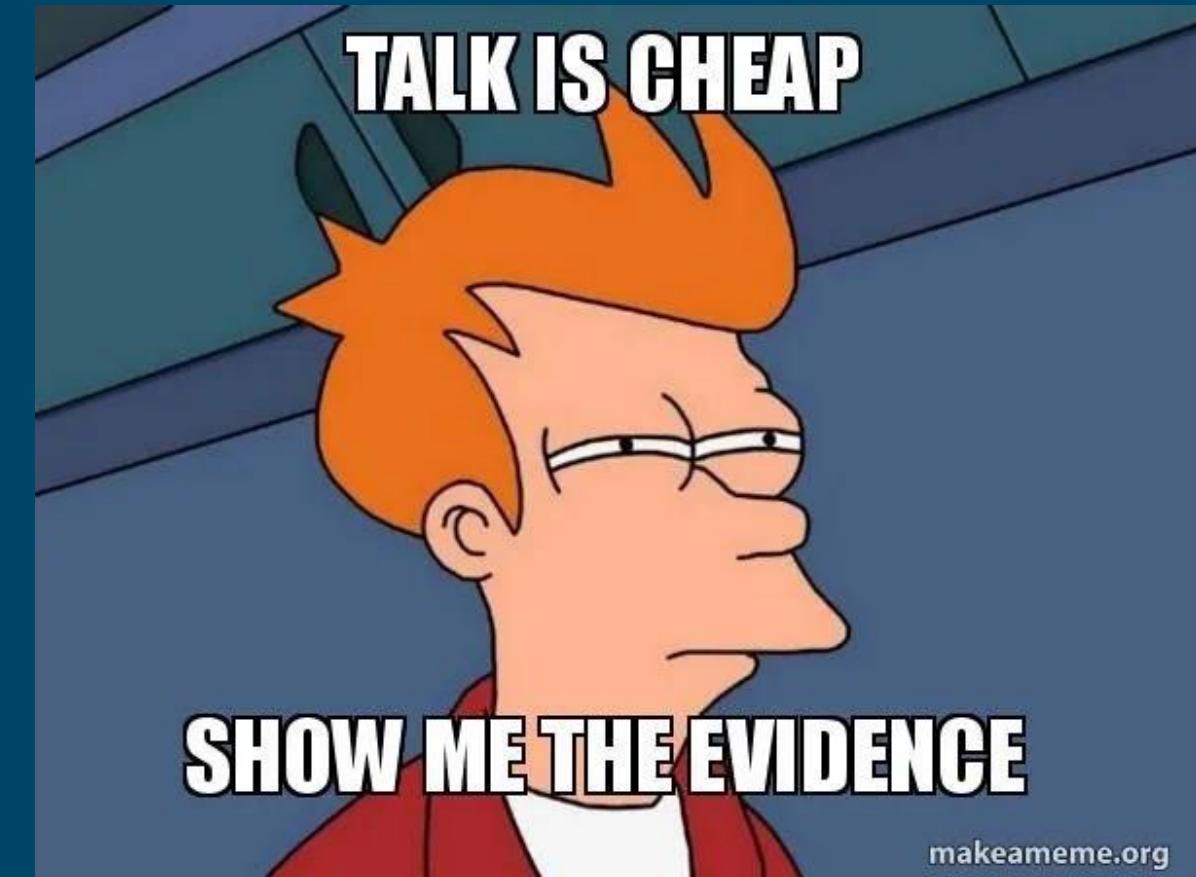
- STRV-ACW-DT-01
- STRV-MOK-LT-02
- HEIM-NEW-DT-01
- STRV-MOK-DT-02
- STRV-CEW-LT-03
- STRV-MEW-LT-02
- STRV-MEW-DT-02

MEMBERS LOCAL ADMINS GROUP | CLIENTS | GROUPED
log-management-client-demo1-t (@ 3/23 7:21 PM)

Search

Group ↑↓ Computer ↑↓ UserLoggedOn

- > 2LINKIT/Anne (2)
- > WORKGROUP/STRV-MOK-LT-02/Morten Knudsen (1)
- > 2LINKIT/mok (2)
- > 2LINKIT/Niels.Waltporp (1)
- > WORKGROUP/STRV-MOK-DT-02/mok (1)
- > 2LINKIT/Caroline (1)
- > 2LINKIT/magnus (2)
- > WORKGROUP/STRV-ACW-LT-01/annew (1)



INCOMPLIANT BITLOCKER | CLIENTS | COUNT

I2



BITLOCKER COMPLIANT | CLIENTS | LIST

Computer	↑↓	UserLoggedOn	↑↓	CollectionTime	↑↓	OSDisk_DriveLetter	↑↓	OSDisk_EncryptionPercentage↑↓	OSDisk_VolumeStatus↑↓	OSDisk_ProtectionStatus↑↓	OSDisk_CapacityGB ↑↓	OSDisk_KeyProtector	↑↓
STRV-ACW-DT-01	2LINKIT\Anne			3/23/2023, 6:52:33 PM		C:		100	1	1	235.475586	[{"KeyProtectorId": "E19D31BA-B09E-4C44-B64C-D17FFE..."}	
STRV-ACW-LT-01	2LINKIT\Anne			3/22/2023, 12:15:40 PM		C:		100	1	1	475.692383	[{"KeyProtectorId": "2D3A1901-580A-474C-8C30-B8DCBE..."}	
STRV-CEW-LT-03	2LINKIT\Caroline			3/23/2023, 2:04:53 PM		C:		100	1	1	475.897461	[{"KeyProtectorId": "51FA6A6E-E255-44D4-B6E7-52EADC..."}	
STRV-MEW-LT-02	2LINKIT\magnus			3/23/2023, 1:02:26 PM		C:		100	1	1	475.897461	[{"KeyProtectorId": "27A4640A-A7D4-4865-BF34-6CB1F2..."}	
STRV-MOK-DT-02	2LINKIT\mok			3/23/2023, 6:52:26 PM		C:		100	1	1	952.827148	[{"KeyProtectorId": "384EB343-1213-4FF1-97E7-3F8926C7..."}	
STRV-MOK-LT-02	2LINKIT\mok			3/23/2023, 3:55:53 PM		C:		100	1	1	952.660156	[{"KeyProtectorId": "AB739D6B-C832-4EE0-834A-862D9A..."}	

BITLOCKER INCOMPLIANT | CLIENTS | LIST

Computer	↑↓	UserLoggedOn	↑↓	CollectionTime	↑↓	OSDisk_DriveLetter	↑↓	OSDisk_EncryptionPercentage↑↓	OSDisk_VolumeStatus↑↓	OSDisk_ProtectionStatus↑↓	OSDisk_CapacityGB ↑↓	OSDisk_KeyProtector	↑↓
HEIM-NEW-DT-01	2LINKIT\Niels.Waltporp			3/23/2023, 6:38:19 PM		C:		0	0	0	921.5879	[]	
STRV-MEW-DT-02	2LINKIT\magnus			3/22/2023, 9:35:30 PM		C:		0	0	0	943.7178	[]	



INVENTORY | CLIENTS | MANAGED... ▾

Shared dashboard

+ Create ⌂ Upload ⌂ Refresh ⌂ Full screen ⌂ Edit ⌂ Manage sharing ⌂ ⌂ Export ⌂ ⌂ Clone ⌂ Assign tags ⌂ Delete ⌂ Feedback

Auto refresh : Off

UTC Time : Past 24 hours

STRV-MOK-DT-02	2LINKIT\mok	3/19/2023, 3:40:45 PM	LENOVO	11D1003VMX	STRV-MOK-DT-02	[{"Description": "Bluetooth Device (Personal Area Network)", "Name": "Bluetooth Device", "Type": "Microsoft", "Vendor": "Microsoft Corporation"}, {"Description": "ExpressVPN TAP Adapter", "Name": "ExpressVPN TAP Adapter", "Type": "Microsoft", "Vendor": "Microsoft Corporation"}]
STRV-MOK-LT-02	2LINKIT\mok	3/19/2023, 12:50:51 PM	Microsoft Corporation	Surface Book 3	STRV-MOK-LT-02	[{"Description": "ExpressVPN TAP Adapter", "Name": "ExpressVPN TAP Adapter", "Type": "Microsoft", "Vendor": "Microsoft Corporation"}]

16

8

INVENTORY OVERVIEW (OS) | CLIENTS | LIST

log-management-client-demo1-t (@ 3/19 4:15 PM)

Search

Computer	↑↓	UserLoggedOn	↑↓	CollectionTime	↑↓	OsArchitecture	↑↓	OsBootDevice	↑↓	OsBuildNumber	↑↓	OsBuildType	↑↓	OsCodeSet	↑↓	OsCountryCode	↑↓	OsCurrentTimeZone	↑↓	OsDataExecutionPrevention32BitA...	↑↓	OsDataExecutionPreventionAvailab...	↑↓	OsDataExecutionPreventio...
STRV-ACW-DT-01	2LINKIT\Anne	3/19/2023, 3:44:11 PM	64-bit	\Device\HarddiskVolume1	22000	Multiprocessor Free	1252	45										60	true			true		true
STRV-ACW-DT-01	2LINKIT\Anne	3/19/2023, 3:44:11 PM	64-bit	\Device\HarddiskVolume1	22000	Multiprocessor Free	1252	45										60	true			true		true
STRV-ACW-DT-01	2LINKIT\Anne	3/19/2023, 3:44:11 PM	64-bit	\Device\HarddiskVolume1	22000	Multiprocessor Free	1252	45										60	true			true		true
STRV-ACW-DT-01	2LINKIT\Anne	3/19/2023, 3:44:11 PM	64-bit	\Device\HarddiskVolume1	22000	Multiprocessor Free	1252	45										60	true			true		true
STRV-ACW-DT-01	2LINKIT\Anne	3/19/2023, 3:44:11 PM	64-bit	\Device\HarddiskVolume1	22000	Multiprocessor Free	1252	45										60	true			true		true

INVENTORY OVERVIEW (WINDOWS) | CLIENTS | LIST

log-management-client-demo1-t (@ 3/19 4:15 PM)

Search

Computer	↑↓	UserLoggedOn	↑↓	CollectionTime	↑↓	OsName	↑↓	OsVersion	↑↓	WindowsVersion	↑↓	WindowsProductName	↑↓	WindowsProductId	↑↓	WindowsCurrentVersion	↑↓	WindowsBuildLabEx	↑↓	WindowsSystemRoot	↑↓	WindowsRegisteredOwn...
STRV-ACW-DT-01	2LINKIT\Anne	3/19/2023, 3:44:11 PM	Microsoft Windows 11 Enterprise		10.0.22000	2009	Windows 10 Enterprise	00330-80000-00000-AA875		6.3							22000.1.amd64fre.co_release.210604-1628		C:\WINDOWS	2LINKIT		
STRV-MOK-DT-02	2LINKIT\mok	3/19/2023, 3:40:45 PM	Microsoft Windows 11 Enterprise		10.0.22621	2009	Windows 10 Enterprise	00330-80000-00000-AA032		6.3							22621.1.amd64fre.ni_release.220506-1250		C:\WINDOWS	mok		
STRV-MOK-LT-02	2LINKIT\mok	3/19/2023, 12:50:51 PM	Microsoft Windows 11 Enterprise		10.0.22621	2009	Windows 10 Enterprise	00330-80000-00000-AA845		6.3							22621.1.amd64fre.ni_release.220506-1250		C:\WINDOWS	Morten Knudsen		

OFFICE | CLIENTS | MANAGED DAS... ▾

Shared dashboard

+ Create Upload Refresh Full screen | Edit Manage sharing Export Clone Assign tags Delete | Feedback

Auto refresh : Off

UTC Time : Past 24 hours

Last updated: a few seconds ago

Y UPDATING O365 OFFICE NOT ENABLED | CLIENTS | COUNT
log-management-client-demo1-t (@ 3/19 4:16 PM)

0

Y INCOMPLIANT UPDATE CHANNEL O365 OFFICE | CLIENTS | CO...
log-management-client-demo1-t (@ 3/19 4:16 PM)

0

Y O365 OFFICE | CLIENTS | COUNT
log-management-client-demo1-t (@ 3/19 4:16 PM)

3

Y STANDALONE OFFICE 2016 | CLIENTS | COUNT
log-management-client-demo1-t (@ 3/19 4:16 PM)

0

Y LEGACY OFFICE | CLIENTS | COUNT
log-management-client-demo1-t (@ 3/19 4:16 PM)

0

Y O365 OFFICE | CLIENTS | LIST
log-management-client-demo1-t (@ 3/19 4:16 PM)

Computer	CollectionTime	UserLoggedOn	ProductReleaseIds	VersionToReport	OfficeMgmtCO...	Platform	ClientCulture	ClientFolder	CDNBaseUrl	OneDriveClientAddon	Tear
STRV-ACW-DT-01	3/19/2023, 3:44:23 PM	2LINKIT\Anne	O365ProPlusRetail	16.0.16130.20306	True	x64	da-dk	C:\Program Files\Common Files\Microsoft Shared\ClickTo... http://officedn.microsoft.com/pr/64256afe-f5d9-4f86-89... INSTALLED			INS
STRV-MOK-DT-02	3/19/2023, 3:41:06 PM	2LINKIT\mok	O365ProPlusRetail,ProjectProRetail,VisioProRetail	16.0.16130.20306	True	x64	en-us	C:\Program Files\Common Files\Microsoft Shared\ClickTo... http://officedn.microsoft.com/pr/64256afe-f5d9-4f86-89... INSTALLED			INS
STRV-MOK-LT-02	3/19/2023, 12:51:39 PM	2LINKIT\mok	O365ProPlusRetail,ProjectProRetail,VisioProRetail	16.0.16130.20218		x64	en-us	C:\Program Files\Common Files\Microsoft Shared\ClickTo... http://officedn.microsoft.com/pr/64256afe-f5d9-4f86-89... INSTALLED			INS



Meet the PMs in charge of Azure Workbooks & Azure Dashboards
– John & Shikha

(Seattle, USA)



DEFENDER ANTIVIRUS | CLIENTS | ... ▾

Shared dashboard

+ Create Upload Refresh Full screen | Edit Manage sharing ▾ Export ▾ Clone Assign tags Delete | Feedback

Auto refresh : Off UTC Time : Past 24 hours

COMPLIANT DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  8	INCOMPLIANT DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  1	DEFENDER AV NOT INSTALLED OR ENABLED CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  0	SIGNATURE TOO OLD DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  0
AM SERVICE NOT RUNNING DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  0	AM VERSION TOO OLD DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  0	REALTIME PROTECTION NOT RUNNING DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  0	ANTISPYWARE TOO OLD DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  0
PASSIVE / EDB BLOCK MODE DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  0	ANTISPYWARE NOT ENABLED DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  0	TAMPERPROTECTION NOT ENABLED DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  1	ONACCESSPROTECTION DISABLED DEFENDER AV CLIENTS COUNT log-management-client-demo1-t (@ 3/23 7:24 PM)  0



GROUP POLICY LAST REFRESH | CLIENTS | LIST

log-management-client-demo1-t (@ 3/19 4:16 PM)

Search

Computer	↑↓	UserLoggedOn	↑↓	CollectionTime	↑↓	GPLastRefreshDays	↑↓	GPLastRefresh	↑↓
STRV-MOK-DT-02		2LINKIT\mok		3/19/2023, 3:42:29 PM		0		3/19/2023, 3:28:11 PM	
STRV-ACW-DT-01		2LINKIT\Anne		3/19/2023, 3:45:53 PM		0		3/19/2023, 3:26:35 PM	
STRV-MOK-LT-02		2LINKIT\mok		3/19/2023, 12:52:53 PM		0		3/19/2023, 12:36:01 PM	



COMPLIANT WINDOWS FIREWALL | CLIENTS | LIST

log-management-client-demo1-t (@ 3/19 4:17 PM)

Search

Computer	↑↓	Profile	↑↓	TimeGenerated	↑↓	TimeGenerated1	↑↓	AllowInboundRules	↑↓	AllowLocalFirewallRules	↑↓	AllowLocalIPsecRules	↑↓	AllowUnicastResponseToMulticast	↑↓	Alloc
STRV-ACW-DT-01		Domain		3/19/2023, 3:45:52 PM		3/19/2023, 3:45:53 PM		1		1		1		1		1
STRV-ACW-DT-01		Private		3/19/2023, 3:45:52 PM		3/19/2023, 3:45:53 PM		1		1		1		1		1
STRV-ACW-DT-01		Public		3/19/2023, 3:45:52 PM		3/19/2023, 3:45:53 PM		1		1		1		1		1
STRV-MOK-DT-02		Domain		3/19/2023, 3:42:29 PM		3/19/2023, 3:42:30 PM		1		0		0		0		1
STRV-MOK-DT-02		Private		3/19/2023, 3:42:29 PM		3/19/2023, 3:42:30 PM		1		0		0		0		1
STRV-MOK-DT-02		Public		3/19/2023, 3:42:29 PM		3/19/2023, 3:42:30 PM		1		0		0		0		1
STRV-MOK-LT-02		Domain		3/19/2023, 12:52:52 PM		3/19/2023, 12:52:52 PM		1		0		0		0		1
STRV-MOK-LT-02		Private		3/19/2023, 12:52:52 PM		3/19/2023, 12:52:52 PM		1		0		0		0		1
STRV-MOK-LT-02		Public		3/19/2023, 12:52:52 PM		3/19/2023, 12:52:52 PM		1		0		0		0		1

⚡ NETWORK INFORMATION | CLIENTS

Shared dashboard

[+ Create](#) [Upload](#) [Refresh](#) [Full screen](#) | [Edit](#) [Manage sharing](#) [Export](#) [Clone](#) [Assign tags](#) [Delete](#) | [Feedback](#)

Auto refresh : Off

UTC Time : Past 24 hours

⚡ NETWORK ADAPTERS | CLIENTS | LIST

log-management-client-demo1-t (@ 3/23 7:23 PM)

[🔍 Search](#)

Computer	UserLoggedOn	CollectionTime	Name	InterfaceDescription	InterfaceAlias	TimeGenerated
HEIM-NEW-DT-01	2LINKIT\Niels.Waltpor	3/23/2023, 6:38:32 PM	Ethernet	Realtek PCIe GBE Family Controller	Ethernet	3/23/2023, 6:38:36 PM
STRV-ACW-DT-01	2LINKIT\Anne	3/23/2023, 6:52:41 PM	Ethernet	Intel(R) Ethernet Connection (7) I219-LM	Ethernet	3/23/2023, 6:52:44 PM
STRV-ACW-DT-01	2LINKIT\Anne	3/23/2023, 6:52:41 PM	Wi-Fi	Intel(R) Wireless-AC 9560 160MHz	Wi-Fi	3/23/2023, 6:52:44 PM
STRV-ACW-DT-01	2LINKIT\Anne	3/23/2023, 6:52:41 PM	Bluetooth-netværksforbindelse	Bluetooth Device (Personal Area Network)	Bluetooth-netværksforbindelse	3/23/2023, 6:52:44 PM
STRV-ACW-LT-01	2LINKIT\Anne	3/22/2023, 12:15:54 PM	Wi-Fi	Intel(R) Wireless-AC 9560 160MHz	Wi-Fi	3/22/2023, 12:15:53 PM
STRV-CEW-LT-03	2LINKIT\Caroline	3/23/2023, 2:05:06 PM	Wi-Fi	Realtek RTL8852BE WiFi 6 802.11ax PCIe Adapter	Wi-Fi	3/23/2023, 2:05:08 PM
STRV-CEW-LT-03	2LINKIT\Caroline	3/23/2023, 2:05:06 PM	Bluetooth Network Connection	Bluetooth Device (Personal Area Network)	Bluetooth Network Connection	3/23/2023, 2:05:08 PM
STRV-MEW-DT-02	2LINKIT\magnus	3/22/2023, 9:35:42 PM	Ethernet	Realtek PCIe GbE Family Controller	Ethernet	3/22/2023, 9:35:45 PM
STRV-MEW-DT-02	2LINKIT\magnus	3/22/2023, 9:35:42 PM	LAN-forbindelse	TAP-Windows Adapter V9	LAN-forbindelse	3/22/2023, 9:35:45 PM
STRV-MEW-LT-02	2LINKIT\magnus	3/23/2023, 1:02:48 PM	Bluetooth Network Connection	Bluetooth Device (Personal Area Network)	Bluetooth Network Connection	3/23/2023, 1:02:52 PM

⚠ Columns were limited to the first 100

⚡ IP INFORMATION | CLIENTS | LIST

log-management-client-demo1-t (@ 3/23 7:23 PM)

[🔍 Search](#)

Computer	UserLoggedOn	CollectionTime	InterfaceAlias	TimeGenerated	Address	AddressFamily	AddressOrigin	AddressState
HEIM-NEW-DT-01	2LINKIT\Niels.Waltpor	3/23/2023, 6:38:37 PM	Loopback Pseudo-Interface 1	3/23/2023, 6:38:40 PM		2	0	
HEIM-NEW-DT-01	2LINKIT\Niels.Waltpor	3/23/2023, 6:38:37 PM	Ethernet	3/23/2023, 6:38:40 PM		2	0	4
STRV-ACW-DT-01	2LINKIT\Anne	3/23/2023, 6:52:44 PM	Ethernet	3/23/2023, 6:52:46 PM		2	0	
STRV-ACW-DT-01	2LINKIT\Anne	3/23/2023, 6:52:44 PM	LAN-forbindelse* 1	3/23/2023, 6:52:46 PM		2	0	
STRV-ACW-DT-01	2LINKIT\Anne	3/23/2023, 6:52:44 PM	Bluetooth-netværksforbindelse	3/23/2023, 6:52:46 PM		2	0	
STRV-ACW-DT-01	2LINKIT\Anne	3/23/2023, 6:52:44 PM	LAN-forbindelse* 12	3/23/2023, 6:52:46 PM		2	0	
STRV-ACW-DT-01	2LINKIT\Anne	3/23/2023, 6:52:44 PM	Loopback Pseudo-Interface 1	3/23/2023, 6:52:46 PM		2	0	
STRV-ACW-DT-01	2LINKIT\Anne	3/23/2023, 6:52:44 PM	Wi-Fi	3/23/2023, 6:52:46 PM		2	0	3



Warranty lookup Lenovo – via collected data (online)



Run with

ConfigMgr

Intune

any deployment-tool

Servers:

RemotePS

CustomScript Extension

```
Administrator: Windows PowerShell
PS C:\Users\mok.2LINKIT\OneDrive - 2linkIT\Desktop\Speaks\Fun with AzLogs\ClientInspectorV2\ClientInspectorV2-DeploymentKit\demo1> .\ClientInspector.ps1 -function:download

ClientInspector | Inventory of Operational & Security-related information
Developed by Morten Knudsen, Microsoft MVP - for free community use

Downloading latest version of module AzLogDcrIngestPS from https://github.com/KnudsenMorten/AzLogDcrIngestPS
into local path C:\Users\mok.2LINKIT\OneDrive - 2linkIT\Desktop\Speaks\Fun with AzLogs\ClientInspectorV2\ClientInspectorV2-DeploymentKit\demo1

#####
User information [1]

Collecting User information ... Please Wait !

[ 1 / 1 ] - Posting data to Loganalytics table [ InvClientComputerUserLoggedOnV2_CL ] .... Please Wait !
SUCCESS - data uploaded to LogAnalytics

#####
COMPUTER INFORMATION [2]

Collecting Bios information ... Please Wait !

[ 1 / 1 ] - Posting data to Loganalytics table [ InvClientComputerInfoBiosV2_CL ] .... Please Wait !
SUCCESS - data uploaded to LogAnalytics

Collecting Processor information ... Please Wait !

[ 1 / 1 ] - Posting data to Loganalytics table [ InvClientComputerInfoProcessorV2_CL ] .... Please Wait !
SUCCESS - data uploaded to LogAnalytics

Collecting Computer system information ... Please Wait !

[ 1 / 1 ] - Posting data to Loganalytics table [ InvClientComputerInfoSystemV2_CL ] .... Please Wait !
SUCCESS - data uploaded to LogAnalytics

Collecting computer information ... Please Wait !

[ 1 / 1 ] - Posting data to Loganalytics table [ InvClientComputerInfoV2_CL ] .... Please Wait !
SUCCESS - data uploaded to LogAnalytics

Collecting OS information ... Please Wait !

[ 1 / 1 ] - Posting data to Loganalytics table [ InvClientComputerOSInfoV2_CL ] .... Please Wait !
SUCCESS - data uploaded to LogAnalytics

Collecting Last restart information ... Please Wait !

[ 1 / 1 ] - Posting data to Loganalytics table [ InvClientComputerInfoLastRestartV2_CL ] .... Please Wait !
SUCCESS - data uploaded to LogAnalytics
```

Microsoft Intune admin center

Home > Reports | Endpoint analytics > Endpoint analytics

Endpoint analytics | Proactive remediations

Search Refresh + Create script package Columns

Overview Settings Reports

- Startup performance
- Proactive remediations**
- Application reliability
- Work from anywhere

Create and run script packages on devices to proactively find and fix the top support issues in your organization. Use this table to see the status of your deployed script packages and to monitor the detection and remediation results. Results are shown as number of devices affected. [Learn more](#).

Script package name ↑↓	Author	Status	Without issues ⓘ	With issues ⓘ
Restart stopped Office C2R svc	Microsoft	Not deployed	0	0
Update stale Group Policies	Microsoft	Not deployed	0	0
ClientInspector (v2) - demo1	Morten Waltorp Knudsen	Active	0	1

2LINK

Intune deployment (<200 Kb in size)

Intune deployment
>200 Kb size, split

Name
ClientInspector_Detection_1.ps1
ClientInspector_Detection_2.ps1
ClientInspector_intune_script1.ps1
ClientInspector_intune_script2.ps1

Home > Endpoint analytics

Endpoint analytics | Proactive remediations

Search Refresh + Create script package Columns

Overview Settings Reports

- Startup performance
- Proactive remediations**
- Application reliability
- Work from anywhere

Create and run script packages on devices to proactively find and fix the top support issues in your organization. Use this table to see the status of your deployed script packages and to monitor the detection and remediation results. Results are shown as number of devices affected. [Learn more](#).

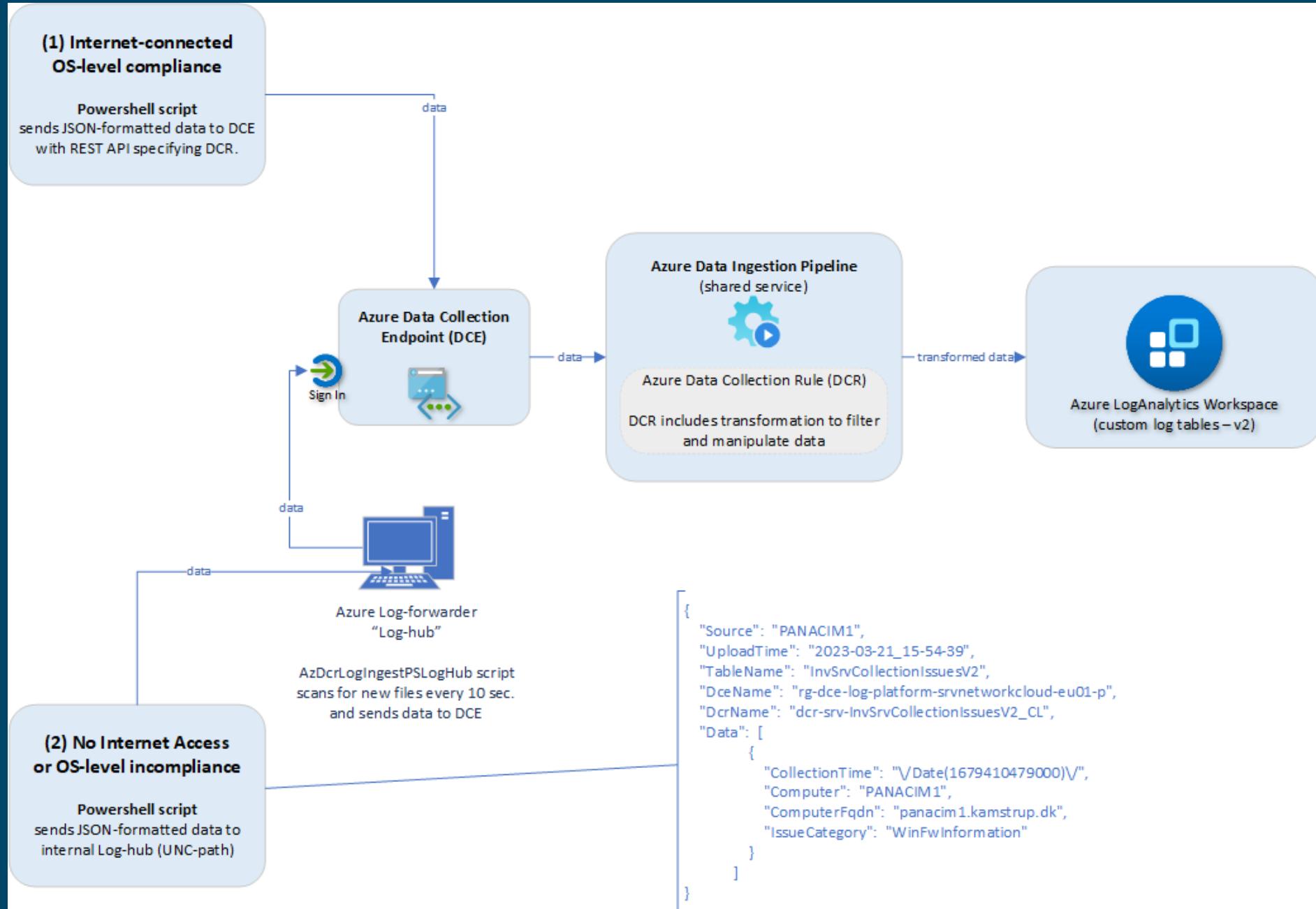
Script package name ↑↓	Author	Status	Without issues ⓘ	With issues ⓘ
Restart stopped Office C2R svc	Microsoft	Not deployed	0	0
ClientInspector (daily) - part 2/2	Morten Knudsen	Active	18	7
ClientInspector (daily) - part 1/2	Morten Knudsen	Active	16	9
Remove Desktop Duplicates	GT	Active	23	1
Update stale Group Policies	Microsoft	Not deployed	0	0
Remove Built-in Teams - Windows 11	nlo	Active	58	4



LogHub

Available on [Github](#)

Free



Following studies and clinical experience have shown that the best way to manage patients with primary hypertension is to use a combination of diet, exercise, and medications. The goal of treatment is to reduce blood pressure to a level that will prevent or delay complications such as heart disease, stroke, and kidney failure. This can be achieved by taking one or more medications along with lifestyle changes like eating healthy foods, getting regular exercise, and avoiding smoking.





Query



Workbooks & Dashboards



“AnyConnector” | AzLogDcrlngestPS

Variables (1/4)

naming - where to send the data

```
#-----
# variables
#-----  
  
$TableName    = 'InvClientDefenderAvV2'    # must not contain _CL  
$DcrName      = "dcr-" + $AzDcrPrefix + "-" + $TableName + "_CL"
```

Data Collection (2/4)

```
#-----
# Collecting data (in)
#-----

    Write-Output ""
    Write-Output "Collecting Bios information ... Please Wait !"

    $DataVariable = Get-CimInstance -ClassName Win32_BIOS
```

```
""

#-----
# Collecting data (in)
#-----

    Write-Output ""
    Write-Output "Collecting Microsoft Defender Antivirus information ... Please Wait !"

    $MPComputerStatus = Get-MpComputerStatus
    $MPPreference = Get-MpPreference
```

Data Manipulation (3/4)

ensure data is in correct format and any "noise" was removed and relevant information has been added

```
# removing apps without DisplayName fx KBs
$DataVariable = $DataVariable | Where-Object { $_.DisplayName -ne $null }

# convert PS object and remove PS class information
$DataVariable = Convert-PSArrayToObjectFixStructure -Data $DataVariable -Verbose:$Verbose

# add CollectionTime to existing array
$DataVariable = Add-CollectionTimeToAllEntriesInArray -Data $DataVariable -Verbose:$Verbose

# add Computer, ComputerFqdn & UserLoggedOn info to existing array
$DataVariable = Add-ColumnDataToAllEntriesInArray -Data $DataVariable -Column1Name Computer -Column1Data $Env:ComputerName -Column2Name ComputerFqdn -Column2Data $Env:ComputerFqdn

# Get insight about the schema structure of an object BEFORE changes. Command is only needed to verify columns in schema
# $SchemaBefore = Get-ObjectSchemaAsArray -Data $DataVariable

# Remove unnecessary columns in schema
$DataVariable = Filter-ObjectExcludeProperty -Data $DataVariable -ExcludeProperty Memento*, Inno*, '(default)', 1033 -Verbose:$Verbose

# Validating/fixing schema data structure of source data
$DataVariable = ValidateFix-AzLogAnalyticsTablesSchemaColumnNames -Data $DataVariable -Verbose:$Verbose

# Aligning data structure with schema (requirement for DCR)
$DataVariable = Build-DataArrayToAlignWithSchema -Data $DataVariable -Verbose:$Verbose
```



Data Out (4/4)

send to LogAnalytics - combined functions

```
#-----
# Create/Update Schema for LogAnalytics Table & Data Collection Rule schema
#-----

CheckCreateUpdate-TableDcr-Structure -AzLogworkspaceResourceId $LogAnalyticsworkspaceResourceId
-AzAppId $LogIngestAppId -AzAppSecret $LogIngestAppSecret -TenantId $TenantId -Verbose:$Verbose
-DceName $DceName -DcrName $DcrName -TableName $TableName -Data $DataVariable
-LogIngestServicePrincipleObjectId $AzDcrLogIngestServicePrincipalobjectId
-AzDcrSetLogIngestApiAppPermissionsDcrLevel $AzDcrSetLogIngestApiAppPermissionsDcrLevel
-AzLogDcrTableCreateFromAnyMachine $AzLogDcrTableCreateFromAnyMachine
-AzLogDcrTableCreateFromReferenceMachine $AzLogDcrTableCreateFromReferenceMachine

#-----
# Upload data to LogAnalytics using DCR / DCE / Log Ingestion API
#-----

Post-AzLogAnalyticsLogIngestCustomLogDcrDce-Output -DceName $DceName -DcrName $DcrName -Data $DataVariable -TableName $TableName
-AzAppId $LogIngestAppId -AzAppSecret $LogIngestAppSecret -TenantId $TenantId -Verbose:$Verbose
```

Detailed Documentation

<https://github.com/KnudsenMorten/AzLogDcrIngestPS>

Videos

I have provided 4 demos for you to try, but if you want to see it first using video, check out these videos:

Video 3m 19s - Running ClientInspector using commandline (normal mode)

Video 1m 40s - Automatic creation of 2 tables & DCRs (verbose mode)

Video 1m 37s - Automatic creation of 2 tables & DCRs (normal mode)

Video 1m 34s - See schema of DCR and table

Video 2m 19s - Data manipulation

Video 1m 58s - Kusto queries against data

Video 3m 01s - Dashboards

Video 0m 48s - Sample usage of data - lookup against Ler...

Video 7m 25s - Deployment via ClientInspector Deployme...

Download latest version

You can download latest version of AzLogDcrIngestPS here

[Install AzLogDcrIngestPS from Powershell Gallery](#)

[install-module AzLogDcrIngestPS](#)

[Download AzLogDcrIngestPS module from this Github rep...](#)

Quick links for more information

[How to get started in your own environment \(demo\)](#)

[Background for building this Powershell module](#)

[Deep-dive about Azure Data Collection Rules \(DCRs\)](#)

[Deep-dive about Log Ingestion API](#)

[Architecture, Schema & Networking](#)

[Security](#)

[Source data - what data can I use ?](#)

[Example of how to use the functions](#)

[How can I modify the schema of LogAnalytics table & Data...](#)

[How to enable verbose-mode & get more help ?](#)

[Integration of AzLogDcrIngest in your scripts](#)

[Function synopsis](#)

[Detailed - Data Manipulation](#)

[Detailed - Table/DCR/Schema/Transformation management](#)

[Detailed - Data Out \(upload to Azure LogAnalytics\) Detailed...](#)

[Contact me](#)



```
PS C:\Users\mok.2LINKIT> get-help Add-CollectionTimeToAllEntriesInArray -full
```

NAME

Add-CollectionTimeToAllEntriesInArray

SYNOPSIS

Add property CollectionTime (based on current time) to all entries on the object

SYNTAX

```
Add-CollectionTimeToAllEntriesInArray [-Data] <Array> [<CommonParameters>]
```

DESCRIPTION

Gives capability to do proper searching in queries to find latest set of records with same collection time. Time Generated cannot be used when you are sending data in batches, as TimeGenerated will change. An example where this is important is a complete list of applications for a computer. We want all applications to show up when querying for the latest data.

PARAMETERS

-Data <Array>
Object to modify

Required?	true
Position?	1
Default value	
Accept pipeline input?	false
Accept wildcard characters?	false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (<https://go.microsoft.com/fwlink/?LinkID=113216>).

INPUTS

None. You cannot pipe objects

OUTPUTS

Updated object with CollectionTime

```
PS C:\Users\mok.2LINKIT> get-command -module azlogdcringestps
```

CommandType	Name	Version	Source
Function	Add-CollectionTimeToAllEntriesInArray	1.2.36	azlogdcringestps
Function	Add-ColumnDataToAllEntriesInArray	1.2.36	azlogdcringestps
Function	Build-DataArrayToAlignWithSchema	1.2.36	azlogdcringestps
Function	CheckCreateUpdate-TableDcr-Structure	1.2.36	azlogdcringestps
Function	Convert-CimArrayToObjectFixStructure	1.2.36	azlogdcringestps
Function	Convert-PSArrayToObjectFixStructure	1.2.36	azlogdcringestps
Function	CreateUpdate-AzDataCollectionRuleLogIngestCustomLogTableDcr	1.2.36	azlogdcringestps
Function	Delete-AzDataCollectionRules	1.2.36	azlogdcringestps
Function	Delete-AzLogAnalyticsCustomLogTables	1.2.36	azlogdcringestps
Function	Filter-ObjectExcludeProperty	1.2.36	azlogdcringestps
Function	Get-AzAccessTokenManagement	1.2.36	azlogdcringestps
Function	Get-AzDataCollectionRuleTransformKql	1.2.36	azlogdcringestps
Function	Get-AzDceListAll	1.2.36	azlogdcringestps

[KnudsenMorten / AzLogDcrIngestPS](#) (Public)

Notifications Fork 0 Star 0 ...

Code Issues Pull requests Discussions Actions Projects Security ...

main AzLogDcrIngestPS / RELEASENOTES Go to file ...

KnudsenMorten def Latest commit bc2916f 2 days ago History

1 contributor

29 lines (18 sloc) | 1.35 KB Raw Blame

```
1 RELEASE NOTES
2 v1.2.38 Changed the logic around SchemaMode = Merge, so the schema in DCR will be based on LogAnalytics table
3
4 v1.2.37 Adding another check to SchemaMode = Merge, so it will support existing properties are changing type
5
6 v1.2.36 Bugfix
7
8 v1.2.35 Changing so $AzDcrLogIngestServicePrincipalObjectId is not a mandatory parameter
9
10 v1.2.34 Bugfix - schememode = merge wasn't updating table correctly
11
12 v1.2.33 Bugfix - signature was by mistake in source file (removed)
13
14 v1.2.32 Bugfix - skip TimeGenerated in DCR table schema when doing a merge. TimeGenerated only exist in tabl
15
16 v1.2.31 Added parameter SchemaMode = Merge/Overwrite for functions CheckCreateUpdate-TableDcr-Structure, Cre
17 SchemaMode = Merge (default)
18 It will do a merge/union of new properties and existing schema properties. DCR will i
19
20 SchemaMode = Overwrite
21 It will overwrite existing schema in DCR/table - based on source object schema
```

Step 1 - Get demo environment up and running.

Download the Powershell script [Step1-Deployment-DemoEnvironment](#)

Modify the SubscriptionId and TenantId in the header before running the deployment

The deployment-script will setup the following tasks:

- create Azure Resource Group for Azure LogAnalytics Workspace
- create Azure LogAnalytics Workspace
- create Azure App registration used for upload of data by demo-upload script
- create Azure service principal on Azure App
- create needed secret on Azure app
- create the Azure Resource Group for Azure Data Collection Endpoint (DCE) in same region as Azure LogAnalytics Workspace
- create the Azure Resource Group for Azure Data Collection Rules (DCR) in same region as Azure LogAnalytics Workspace
- create Azure Data Collection Endpoint (DCE) in same region as Azure LogAnalytics Workspace
- delegate permissions for Azure App on LogAnalytics workspace
- delegate permissions for Azure App on Azure Resource Group for Azure Data Collection Rules (DCR)
- delegate permissions for Azure App on Azure Resource Group for Azure Data Collection Endpoints (DCE)

Step 2 - Adjust the demo-script with the needed variables (sample below).

Demo-script can also be found [here](#)

```
#####
# VARIABLES
#####

<# ----- onboarding lines ----- BEGIN #>

$TenantId          = "xxxxxxxxxxxxf63-9a77-ec94786b7c9e"
$LogIngestAppId    = "xxxxxxxxxxxxx-b45b-fe5e78392285"
$LogIngestAppSecret = "xxxxxxxxxxxx_NJFrBH_o-QdNR1Ga.T"

$LogAnalyticsWorkspaceResourceId = "/subscriptions/xxxxxx/resourceGroups/rg-logworkspaces-client

$dceName           = "dce-log-management-client-demo1-t"
$azDcrResourceGroup = "rg-dcr-log-management-client-demo1-t"
$azDcrSetLogIngestApiAppPermissionsDcrLevel = $false

$azDcrPrefix        = "clt" # used to make it easy to find the DCRs when searching

# Used so schema changes will only happen on reference machines and not from other machines, if AzLogDcrIngest
$azLogDcrTableCreateFromReferenceMachine = @() # you will add your machine like @("MyDeviceName")
$azLogDcrTableCreateFromAnyMachine      = $true # should be $false when you are ready for production. I

$global:Verbose       = $true # can be removed from script and added as parameter (

<# ----- onboarding lines ----- END #>
```

How to get started ? (demo)



Step 3 - Run demos

You can now run the different sections in the script and see the demos. The demos will use most functions in `AzLogDcrIngestPS`

Start by running lines 1-275, which will load the initial header and build variables

Demo #1 will demonstrate data manipulation + show schema content

Demo #2 will demonstrate collection data + create LogAnalytics table + DCR + send data

Demo #3 will demonstrate collection of data, remove unnecessary data-properties, create schema with modified structure

Demo #4 will demonstrate schema change of existing table

NOTE:

Have patience :-)

Making schema changes + creating new pipelines will require 10-15 min delays right now. Data WILL come - have patience.

When the DCR + table + schema is in place, normal upload of data will happen very fast afterwards.

I have outlined the things to notice during the demos - run the lines one by one (sample below)

<https://github.com/KnudsenMorten/ClientInspectorV2-DeploymentKit>

You can get started today
for free (only pay for Azure consumption)



github.com/KnudsenMorten/ClientInspectorV2-DeploymentKit

Intemps ArrowSphere 2linkT 2LINKIT BILLING MVP Microsoft PADI Dashlane Azure Architecture... LinkedIn Messenger Facebook Google Maps CAF Forkortelser Govern methodolo...

README.md

ClientInspectorV2-DeploymentKit

Introduction

The purpose of this repository is to provide everything needed to deploy a complete environment for ClientInspector (v2)

The deployment includes the following steps:

1. create Azure Resource Group for Azure LogAnalytics Workspace
2. create Azure LogAnalytics Workspace
3. create Azure App registration used for upload of data by ClientInspector
4. create Azure service principal on Azure App
5. create needed secret on Azure app
6. create the Azure Resource Group for Azure Data Collection Endpoint (DCE) in same region as Azure LogAnalytics Workspace
7. create the Azure Resource Group for Azure Data Collection Rules (DCR) in same region as Azure LogAnalytics Workspace
8. create Azure Data Collection Endpoint (DCE) in same region as Azure LogAnalytics Workspace
9. delegate permissions for Azure App on LogAnalytics workspace - see section Security for more info
10. delegate permissions for Azure App on Azure Resource Group for Azure Data Collection Rules (DCR)
11. delegate permissions for Azure App on Azure Resource Group for Azure Data Collection Endpoints (DCE)
12. deployment of Azure Workbooks
13. deployment of Azure Dashboards

Deployment

You can see details on how to configure the deployment here

Thank You for today 😊

- Blog: <https://mortenknudsen.net/>
- Mail: mok@mortenknudsen.net | mok@2linkit.net
- Linkedin: <https://www.linkedin.com/in/mortenwaltorpknudsen/>
- Github: <https://github.com/KnudsenMorten>
- Twitter: <https://twitter.com/knudsenmortendk>



Topic	Link
ClientInspector	https://github.com/KnudsenMorten/ClientInspectorV2
ClientInspector DeploymentKit	https://github.com/KnudsenMorten/ClientInspectorV2-DeploymentKit
Powershell module AzLogDcrIngestPS	https://github.com/KnudsenMorten/AzLogDcrIngestPS
LogHub (AzLogDcrIngestPSLogHub)	https://github.com/KnudsenMorten/AzLogDcrIngestPSLogHub
Deep-dive about Azure Data Collection Rules (DCRs)	https://github.com/KnudsenMorten/AzLogDcrIngestPS#deep-dive-about-azure-data-collection-rules-dcrs
Deep-dive about Log Ingestion API	https://github.com/KnudsenMorten/AzLogDcrIngestPS#deep-dive-about-log-ingestion-api



More deep-dive
information, if people are
interested

(not part of main presentation)



What is collected ?

- User Logged On to Client
- Computer information
 - bios, processor, hardware info, Windows OS info, OS information, last restart
- Installed applications
 - both using WMI and registry
- Antivirus Security Center from Windows
 - default antivirus, state, configuration
- Microsoft Defender Antivirus
 - all settings including ASR, exclusions, realtime protection, etc
- Office - version, update channel config, SKUs
- VPN client - version, product
- LAPS – version
- Admin By Request (3rd party) – version
- Bitlocker - configuration
- Windows Update
 - last result (when), windows update source information (where), pending updates, last installations (what)
- Eventlog
 - look for specific events including logon events, blue screens, etc.
- Network adapters - configuration, installed adapters
- IP information for all adapters
- Local administrators group membership
- Windows firewall
 - settings for all 3 modes
- Group Policy - last refresh
- TPM information
 - relevant to detect machines with/without TPM

```
PS get-command -module AzLogDcrIngestPS
```

CommandType	Name	Version	Source
Function	Add-CollectionTimeToAllEntriesInArray	1.1.17	AzLogDcrIngestPS
Function	Add-ColumnDataToAllEntriesInArray	1.1.17	AzLogDcrIngestPS
Function	Build-dataArrayToAlignWithSchema	1.1.17	AzLogDcrIngestPS
Function	CheckCreateUpdate-TableDcr-Structure	1.1.17	AzLogDcrIngestPS
Function	Convert-CimArrayToObjectFixStructure	1.1.17	AzLogDcrIngestPS
Function	Convert-PSArrayToObjectFixStructure	1.1.17	AzLogDcrIngestPS
Function	CreateUpdate-AzDataCollectionRuleLogIngestCusto...	1.1.17	AzLogDcrIngestPS
Function	CreateUpdate-AzLogAnalyticsCustomLogTableDcr	1.1.17	AzLogDcrIngestPS
Function	Delete-AzDataCollectionRules	1.1.17	AzLogDcrIngestPS
Function	Delete-AzLogAnalyticsCustomLogTables	1.1.17	AzLogDcrIngestPS
Function	Filter-ObjectExcludeProperty	1.1.17	AzLogDcrIngestPS
Function	Get-AzAccessTokenManagement	1.1.17	AzLogDcrIngestPS
Function	Get-AzDceListAll	1.1.17	AzLogDcrIngestPS
Function	Get-AzDcrDceDetails	1.1.17	AzLogDcrIngestPS
Function	Get-AzDcrListAll	1.1.17	AzLogDcrIngestPS
Function	Get-AzLogAnalyticsTableAzDataCollectionRuleStatus	1.1.17	AzLogDcrIngestPS
Function	Get-ObjectSchemaAsArray	1.1.17	AzLogDcrIngestPS
Function	Get-ObjectSchemaAsHash	1.1.17	AzLogDcrIngestPS
Function	Post-AzLogAnalyticsLogIngestCustomLogDcrDce	1.1.17	AzLogDcrIngestPS
Function	Post-AzLogAnalyticsLogIngestCustomLogDcrDce-Output	1.1.17	AzLogDcrIngestPS
Function	Update-AzDataCollectionRuleDceEndpoint	1.1.17	AzLogDcrIngestPS
Function	Update-AzDataCollectionRuleResetTransformKqlDef...	1.1.17	AzLogDcrIngestPS
Function	Update-AzDataCollectionRuleTransformKql	1.1.17	AzLogDcrIngestPS
Function	ValidateFix-AzLogAnalyticsTableSchemaColumnNames	1.1.17	AzLogDcrIngestPS

```
get-help Add-CollectionTimeToAllEntriesInArray -full
```

NAME
Add-CollectionTimeToAllEntriesInArray

SYNOPSIS
Add property CollectionTime (based on current time) to all entries on the object

SYNTAX
Add-CollectionTimeToAllEntriesInArray [-Data] <Array> [<CommonParameters>]

DESCRIPTION
Gives capability to do proper searching in queries to find latest set of records with same collection time
Time Generated cannot be used when you are sending data in batches, as TimeGenerated will change
An example where this is important is a complete list of applications for a computer. We want all applications to show up when querying for the latest data

PARAMETERS

-Data <Array>
Object to modify

Required? true
Position? 1
Default value
Accept pipeline input? false
Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (<https://go.microsoft.com/fwlink/?LinkID=113216>).

INPUTS

None. You cannot pipe objects

OUTPUTS

Updated object with CollectionTime

----- EXAMPLE 1 -----

```
PS C:\>#-----  
# Variables  
#-----  
$Verbose = $true # $true or $false  
#-----  
# Collecting data (in)  
#-----  
$DNSName = (Get-CimInstance Win32_computersystem).DNSHostName + "." + (Get-CimInstance Win32_computersystem).DNISHostName
```

```
.\ClientInspector.ps1 -verbose:$false -function:download
```

```
ClientInspector | Inventory of Operational & Security-related information  
Developed by Morten Knudsen, Microsoft MVP - for free community use
```

```
Downloading latest version of module AzLogDcrIngestPS from https://github.com/KnudsenMorten/ClientInspectorV2  
into local path D:\scripts\ClientInspectorV2
```



```
.\ClientInspector.ps1 -verbose:$false -function:localpath
```

```
ClientInspector | Inventory of Operational & Security-related information  
Developed by Morten Knudsen, Microsoft MVP - for free community use
```

```
Using AzLogDcrIngestPS module from local path D:\scripts\ClientInspectorV2
```

```
.\ClientInspector.ps1 -verbose:$false -function:PSGallery -scope:CurrentUser
```

```
ClientInspector | Inventory of Operational & Security-related information  
Developed by Morten Knudsen, Microsoft MVP - for free community use
```

```
Powershell module was not found !
```

```
Installing in scope currentuser .... Please Wait !
```

```
.\ClientInspector.ps1 -verbose:$false -function:PsGallery -scope:currentuser
```

```
ClientInspector | Inventory of Operational & Security-related information  
Developed by Morten Knudsen, Microsoft MVP - for free community use
```

```
Checking latest version at PsGallery for AzLogDcrIngestPS module  
OK - Running latest version
```

Home > Monitor | Data Collection Rules >

dcr-clt-InvClientComputerInfoSystemV2_CL Data collection rule | Directory: 2linkIT

Search Delete

Overview Activity log Access control (IAM) Tags

Settings Locks

Configuration Data sources Resources

Automation Tasks (preview) Export template

Support + troubleshooting New Support Request

Resource JSON

dcr-clt-InvClientComputerInfoSystemV2_CL

Resource ID /subscriptions/fce4f282-fcc6-43fb-94d8-bf1701b862c3/resourceGroups/rg-dcr-log-management-client-demo1-t/providers/microsoft.insights/dataCol... API version 2022-06-01

```
1 {
  "properties": {
    "immutableId": "dcr-857e7b752da1400bac1e302c194bf1f3",
    "dataCollectionEndpointId": "/subscriptions/fce4f282-fcc6-43fb-94d8-bf1701b862c3/resourceGroups/rg-dce-log-management-client-",
    "streamDeclarations": {
      "Custom-InvClientComputerInfoSystemV2_CL": {
        "columns": [
          {
            "name": "AdminPasswordStatus",
            "type": "int"
          },
          {
            "name": "AutomaticManagedPagefile",
            "type": "boolean"
          },
          {
            "name": "AutomaticResetBootOption",
            "type": "boolean"
          },
          {
            "name": "AutomaticResetCapability",
            "type": "boolean"
          },
          {
            "name": "BootOptionOnLimit",
            "type": "dynamic"
          },
          {
            "name": "BootOptionOnWatchDog",
            "type": "dynamic"
          },
          {
            "name": "BootROMSupported",
            "type": "boolean"
          },
          {
            "name": "BootStatus",
            "type": "dynamic"
          },
          {
            "name": "BootupState",
            "type": "string"
          },
          {
            "name": "Caption",
            "type": "string"
          },
          {
            "name": "ChassisBootupState",
            "type": "int"
          },
          {
            "name": "ChassisSKUNumber",
            "type": "string"
          }
        ]
      }
    }
  }
}
```

Home > log-management-client-demo1-t

log-management-client-demo1-t | Tables

Log Analytics workspace | Directory: 2linkIT

Search

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Logs

Settings

- Tables 
- Agents
- Usage and estimated costs
- Data export
- Network isolation
- Linked storage accounts
- Properties
- Locks

Classic

- Legacy agents management
- Legacy custom logs
- Legacy activity log connector
- Legacy storage account logs
- Legacy computer groups
- Legacy solutions
- System center
- Workspace summary (deprecated)
- Service map (deprecated)
- Virtual machines (deprecated)
- Scope configurations (deprecated)

Monitoring

- Insights
- Alerts
- Diagnostic settings
- Workbooks

Automation

For the list of tables supporting ingestion-time transformations please refer to [documentation](#)

+ Create  Delete 

Type : All Plan : All

Showing 27 results 

Table name	Type	Plan
InvClientAdminByRequestV2_CL	Custom table	Analytics
InvClientAntivirusV2_CL	Custom table	Analytics
InvClientApplicationsFromRegistryV2_CL	Custom table	Analytics
InvClientApplicationsFromWmiV2_CL	Custom table	Analytics
InvClientBitlockerInfoV2_CL	Custom table	Analytics
InvClientComputerInfoBiosV2_CL	Custom table	Analytics
InvClientComputerInfoLastRestartV2_CL	Custom table	Analytics
InvClientComputerInfoProcessorV2_CL	Custom table	Analytics
InvClientComputerInfoSystemV2_CL	Custom table	Analytics
InvClientComputerInfoV2_CL	Custom table	Analytics
InvClientComputerOSInfoV2_CL	Custom table	Analytics
InvClientComputerUserLoggedOnV2_CL	Custom table	Analytics
InvClientDefenderAvV2_CL	Custom table	Analytics
InvClientEventlogInfoV2_CL	Custom table	Analytics
InvClientGroupPolicyRefreshV2_CL	Custom table	Analytics
InvClientHardwareTPMInfoV2_CL	Custom table	Analytics
InvClientLAPSInfoV2_CL	Custom table	Analytics
InvClientLocalAdminsV2_CL	Custom table	Analytics
InvClientNetworkAdapterInfoV2_CL	Custom table	Analytics
InvClientNetworkIPv4InfoV2_CL	Custom table	Analytics
InvClientOfficeInfoV2_CL	Custom table	Analytics
InvClientVpnV2_CL	Custom table	Analytics
InvClientWindowsFirewallInfoV2_CL	Custom table	Analytics
InvClientWindowsUpdateLastInstallationsV2_CL	Custom table	Analytics
InvClientWindowsUpdateLastResultsV2_CL	Custom table	Analytics
InvClientWindowsUpdatePendingUpdatesV2_CL	Custom table	Analytics

InvClientComputerInfoSystemV2_CL

Schema Editor

Search column

Azure Columns (4)

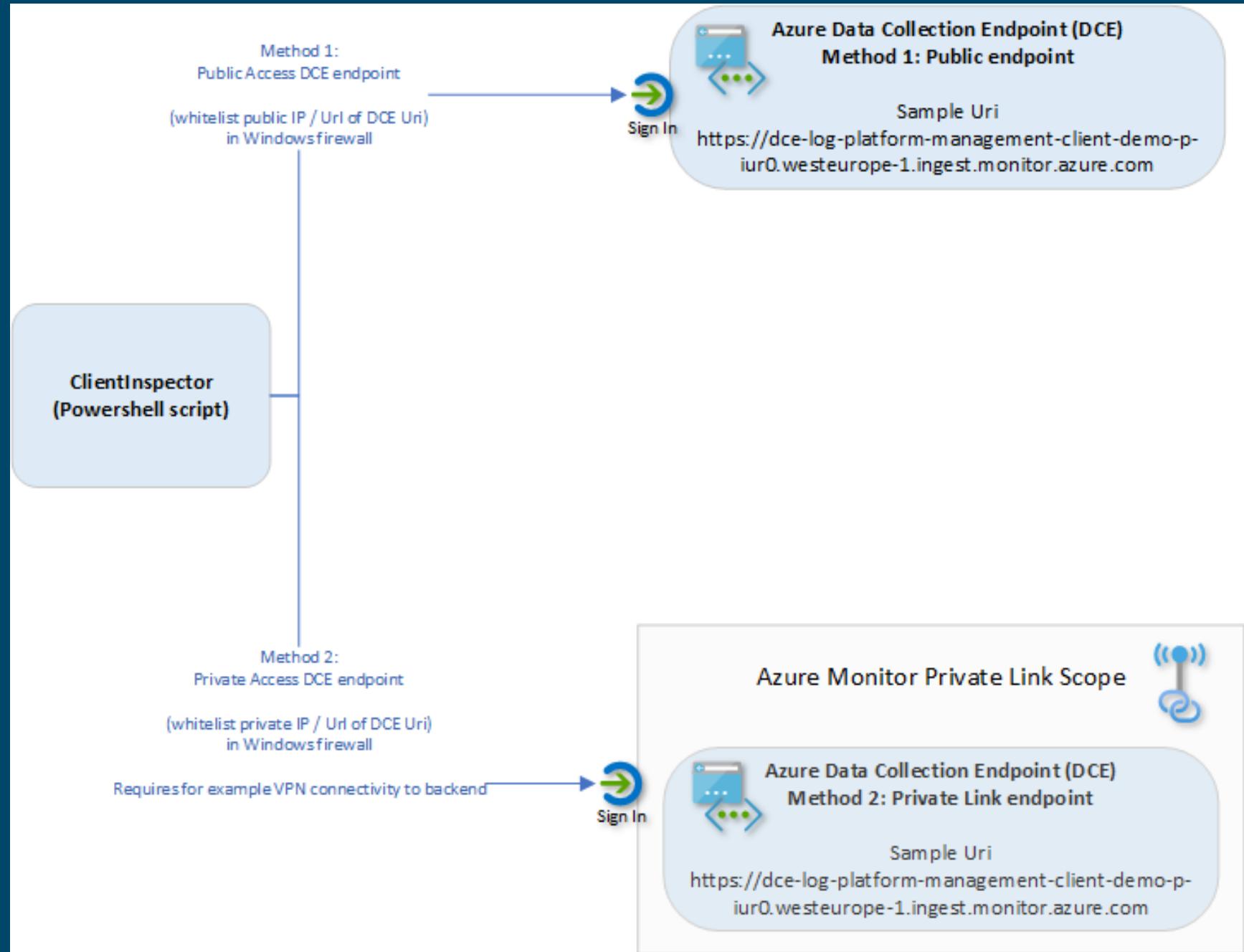
Column name	Description	Type	Show column
_ResourceId	A unique identifier for the resource that the record...	String	<input checked="" type="checkbox"/>
_SubscriptionId	A unique identifier for the subscription that the re...	String	<input checked="" type="checkbox"/>
TenantId		Guid	<input checked="" type="checkbox"/>

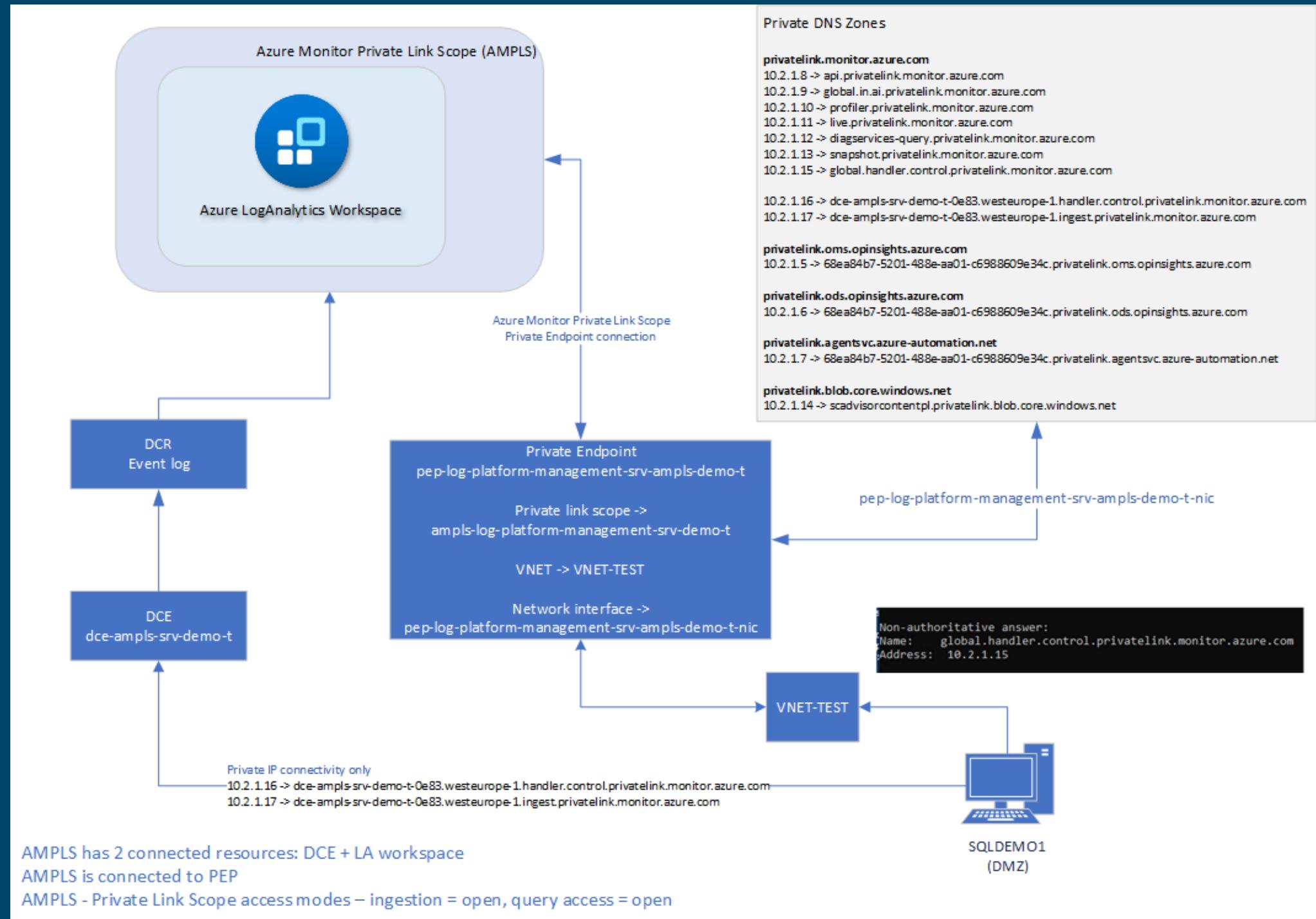
Custom Columns (70)

Column name	Description	Type	Show column
AdminPasswordStatus		Int	<input checked="" type="checkbox"/>
AutomaticManagedPagefile		Boolean	<input checked="" type="checkbox"/>
AutomaticResetBootOption		Boolean	<input checked="" type="checkbox"/>
AutomaticResetCapability		Boolean	<input checked="" type="checkbox"/>
BootOptionOnLimit		Dynamic	<input checked="" type="checkbox"/>
BootOptionOnWatchDog		Dynamic	<input checked="" type="checkbox"/>
BootROMSupported		Boolean	<input checked="" type="checkbox"/>
BootStatus		Dynamic	<input checked="" type="checkbox"/>
BootupState		String	<input checked="" type="checkbox"/>
Caption		String	<input checked="" type="checkbox"/>
ChassisBootupState		Int	<input checked="" type="checkbox"/>
ChassisSKUNumber		String	<input checked="" type="checkbox"/>
CollectionTime		Datetime	<input checked="" type="checkbox"/>
Computer		String	<input checked="" type="checkbox"/>
ComputerFqdn		String	<input checked="" type="checkbox"/>
CreationClassName		String	<input checked="" type="checkbox"/>

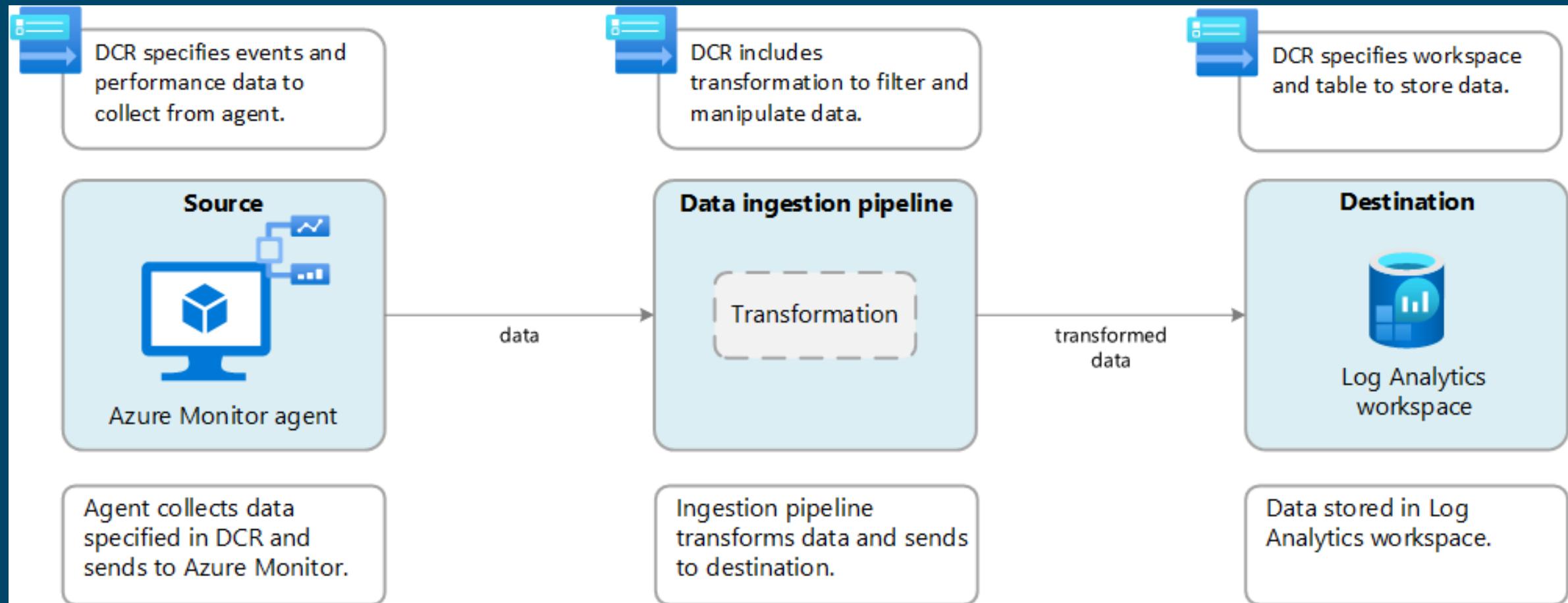
Networking

Client endpoint (REST api)
sends data to DCE

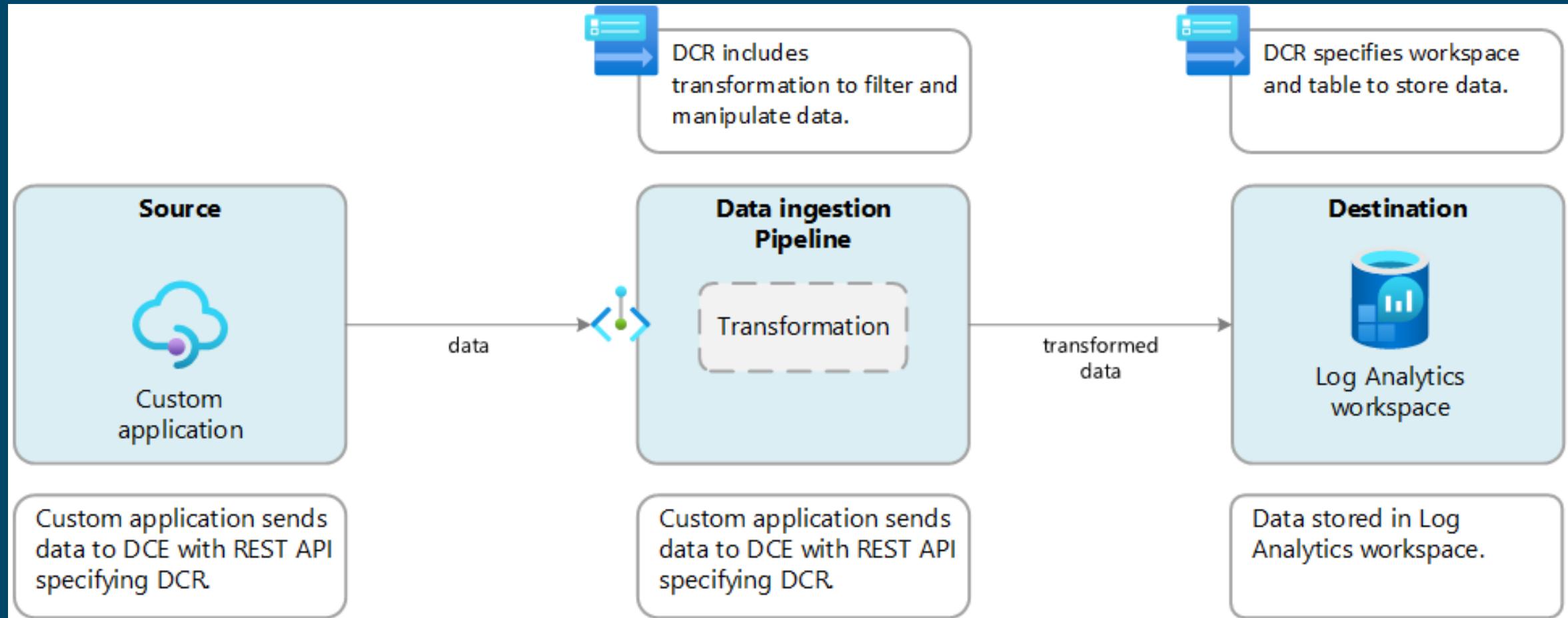




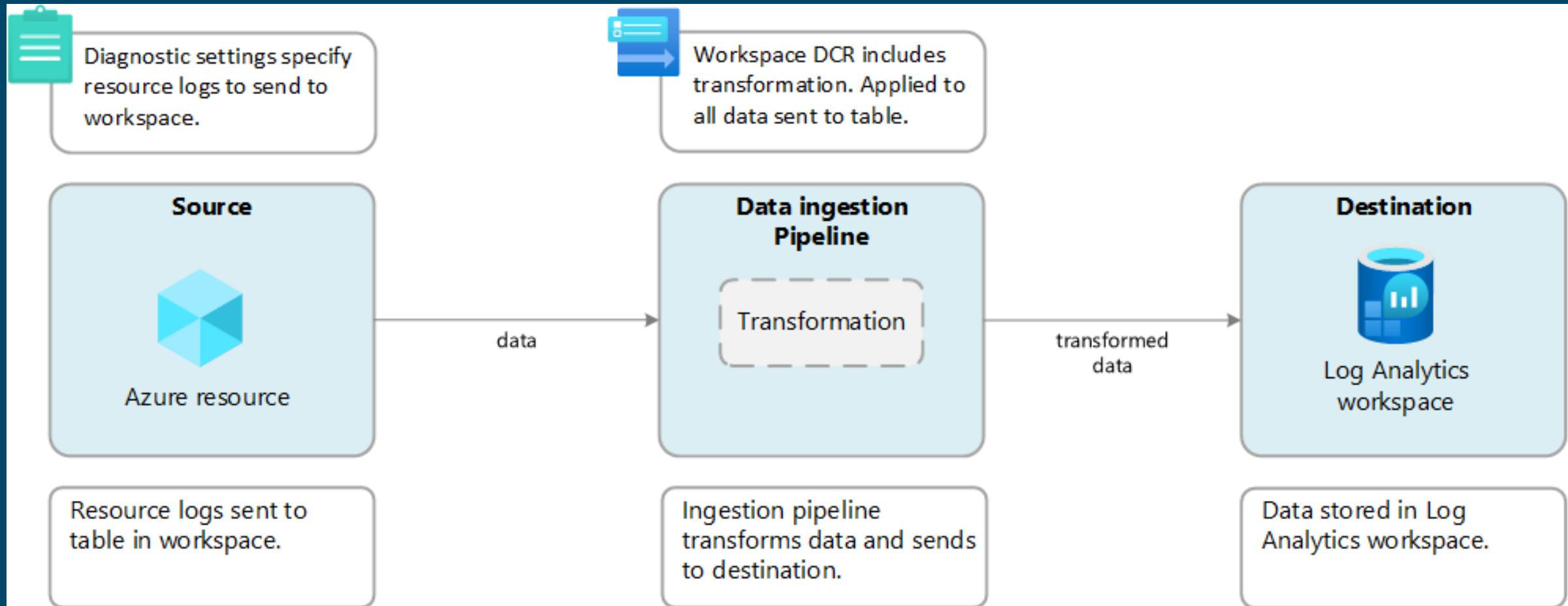
Transformation using AMA & DCR



Transformation using Log ingestion API, DCR & DCE



Workspace Transformation DCR



Collection Source	Technologies needed	Resource Association	Target (today)
Performance Eventlog Syslog	AMA / DCR	Required (DCR)	Standard table (LogAnalytics)
Text logs IIS logs Windows Firewall logs (preview)	AMA / DCR / DCE	Required (DCR)	Custom Log table (LogAnalytics)
SNMP traps	Linux with SNMP trap receiver -and- AMA (syslog file) / DCR - or - AMA (syslog stream) / DCR	Required (DCR)	???? (LogAnalytics)
Change Tracking (legacy)	Change Tracking extension (FIM) / DCR	Required (DCR)	Standard table (LogAnalytics)
Custom logs (Log Ingest API)	DCR / DCE	N/A	Custom Log table (LogAnalytics)
Standard logs (Log Ingest API) (*)	DCR / DCE	N/A	Standard table (LogAnalytics)
Standard/Platform Metrics/Telemetry (Azure Paas)	DCR (built-in, non-manageable, hidden)	N/A	Azure Monitor Metrics
Custom Metrics/Telemetry (custom app)	AMA / DCR -or- Azure Diagnostics extension -or- Azure Monitor REST API -or- Linux: InfluxData Telegraf agent (Linux) + Azure Monitor output plugin	Required (DCR)	Azure Monitor Metrics
Platform Logs (diagnostics per resource) • AllMetrics (don't send to LA – you already have data via Azure Monitor Metrics) • Resource logs (alllogs, audit)	Azure Policy (Diagnostics) DCR (built-in, non-manageable, hidden)	Required (Policy)	Standard table (LogAnalytics)
Activity logs (audit per subscription)	Azure Policy (Diagnostics) DCR (built-in, non-manageable, hidden)		Standard table (LogAnalytics)

Collection Source	Technologies needed	Flow
Performance Eventlog Syslog	AMA / DCR	AMA -> DCR Ingestion Pipeline (backend) → LA
Text logs IIS logs Windows Firewall logs (preview)	AMA / DCR / DCE	AMA -> DCE -> DCR Ingestion Pipeline (backend) → LA
SNMP traps	Linux with SNMP trap receiver -and- AMA (syslog file) / DCR - or - AMA (syslog stream) / DCR	AMA-> DCR Ingestion Pipeline (backend) → LA
Change Tracking (legacy)	Change Tracking extension (FIM) / DCR	FIM -> DCR Ingestion Pipeline (backend) → LA
Custom logs (Log Ingest API)	DCR / DCE	REST EndPoint -> DCE -> DCR Ingestion Pipeline (backend) → LA
Standard logs (Log Ingest API) (*)	DCR / DCE	REST EndPoint -> DCE -> DCR Ingestion Pipeline (backend) → LA
Platform (Standard) Metrics/Telemetry (Azure Paas)	DCR (built-in, non-manageable)	Azure Resource -> DCR Ingestion Pipeline (backend) -> Azure Monitor Metrics
Custom Metrics/Telemetry (custom app)	AMA / DCR -or- Azure Diagnostics extension -or- Azure Monitor REST API -or- Linux: InfluxData Telegraf agent (Linux) + Azure Monitor output plugin	AMA -> DCR Ingestion Pipeline (backend) → LA AzDiag Ext -> LA REST EndPoint -> DCE -> DCR Ingestion Pipeline (backend) → LA InfluxData Telegraf -> Azure Monitor output plugin -> LA
Platform Logs (diagnostics per resource) • AllMetrics • Resource logs (allologs, audit)	Azure Policy (Diagnostics) DCR	Azure Resource -> DCR -> LA
Activity logs (audit per subscription)	Azure Policy (Diagnostics) DCR	Azure Resource -> DCR -> LA