

#NVSummit2021

Make the most from your Desktop Analytics infra

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NORDIC

– VIRTUAL SUMMIT –

About Mirko

- **Mirko Colemberg**
Workplace Sommelier
- Windows Insider MVP /
Enterprise Mobility MVP
- MVM FY20 Q2 (Most Valuable
Mentor)
- **Contact Me**
[@mirkocolemberg](https://twitter.com/mirkocolemberg)
- Don't ask about Beer!!!



baseVISION



About Panu



Since 1995

**Enterprise Mobility,
since 2005**

@panusaukko

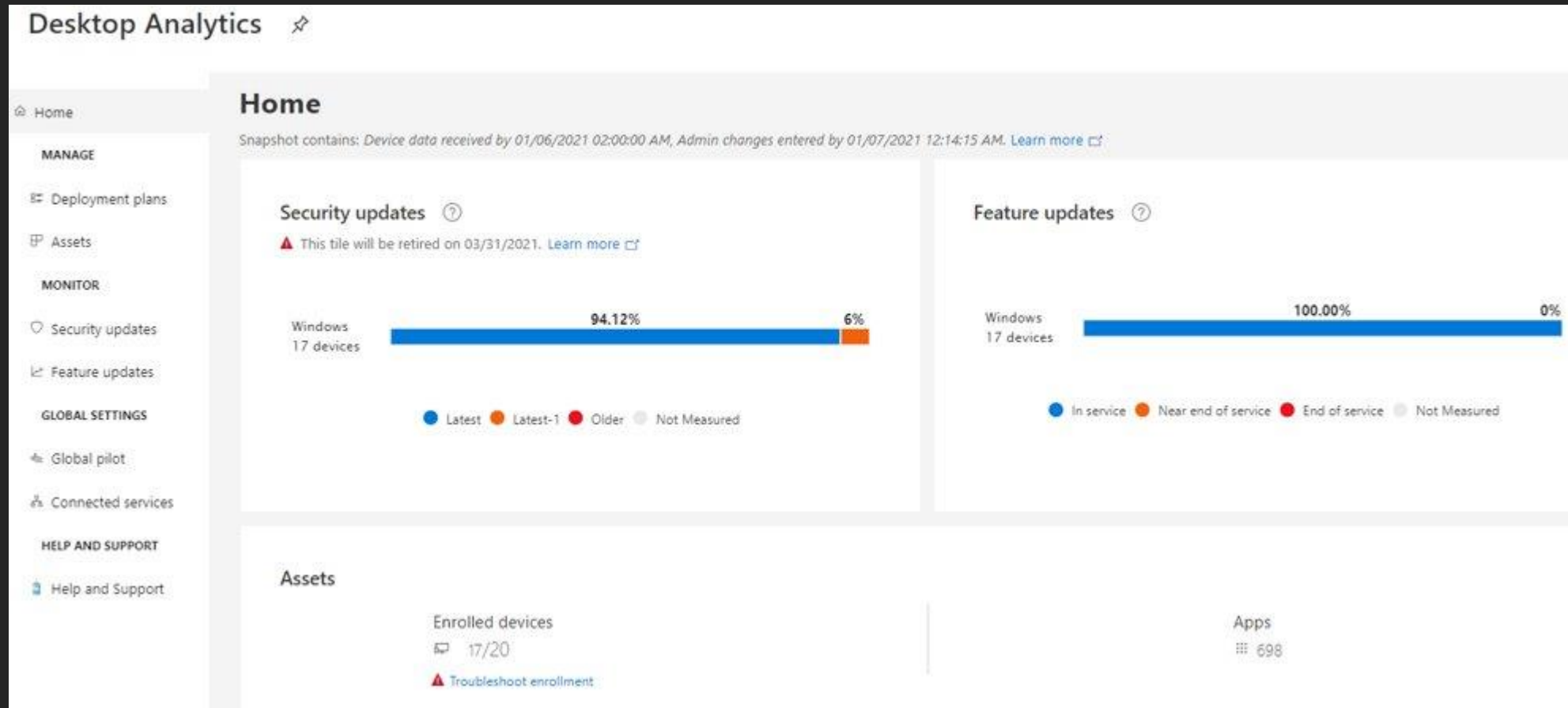
Let's have a discussion about NBA
& especially Chicago Bulls

Make the most from your Desktop Analytics infra

What is Desktop Analytics?

- Cloud-based service to ease your Windows 10 upgrades
- Integrates with ConfigMgr
- Gives you info about:
 - App compatibility against different Windows 10 versions
 - App usage
 - Basic info from your devices
 - Security update installations (until 31.3.2021)
- Intelligent piloting
- Utilizes Windows 10 diagnostics data (telemetry)

What info you get from Desktop Analytics



Demo: Basic features

Requirements

- Active global Azure subscription
 - With global administrator permissions. Microsoft Accounts aren't supported.
- Azure subscriptions
 - Log Analytics workspace
- Configuration Manager 1902 with update rollup (4500571) or later
 - Full Administrator role
- Based on Windows 10 telemetry (AKA "Analytics data")
 - Basic or Optional (limited) Diagnostic data level

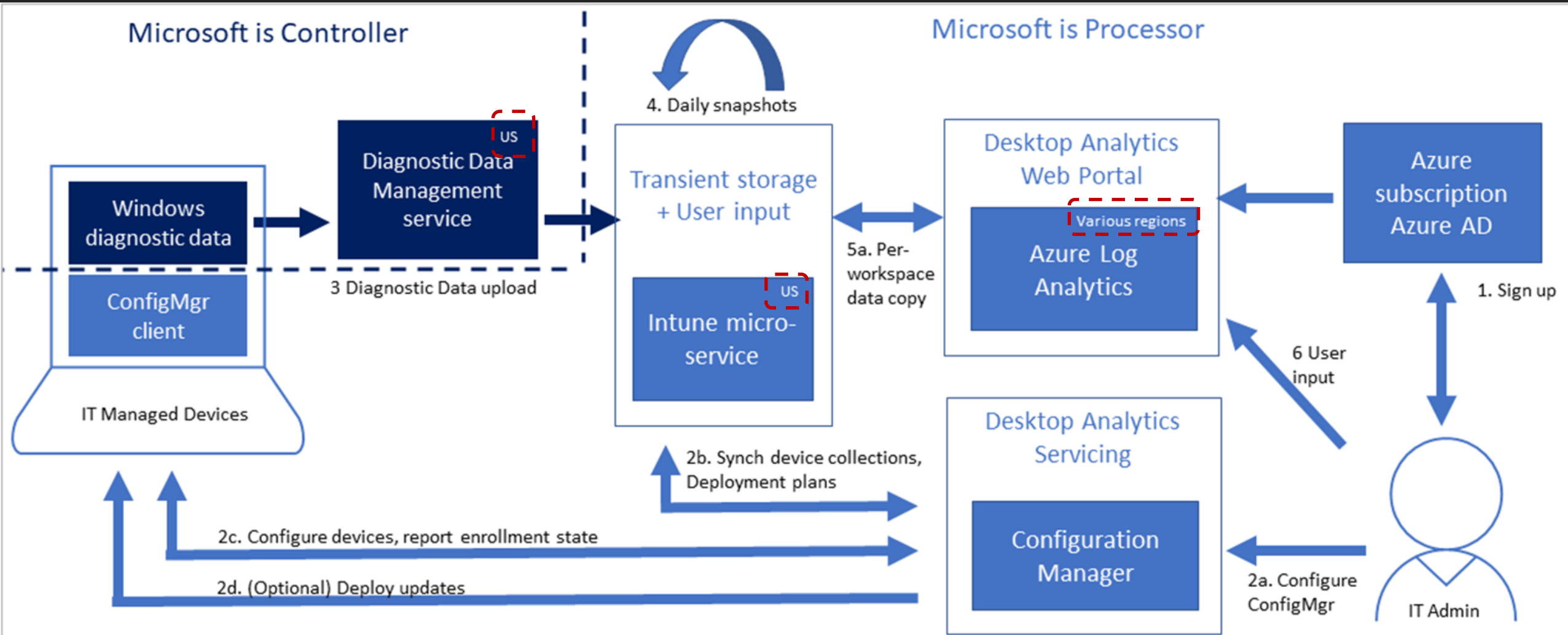
Update Compliance & Desktop Analytics

- Security Update info will be removed from Desktop Analytics 31.3.2021
- Update Compliance has a similar functionality
 - Missing security update installation timeline chart currently in DA
 - Can be done with Log Analytics
- You can use both update compliance & desktop analytics
 - Need to use the same commercialID = same Log Analytics workspace
 - Remember: One commercialID/Windows 10 device!
- Update compliance doesn't require ConfigMgr

Licensing

- Configuration Manager license
- Users of the device need one of the following licenses:
 - Windows 10 Enterprise E3, A3, F3 or higher
- No additional cost for using DA within Azure Log Analytics
 - Free from any Log Analytics data ingestion and retention charges
 - Additional solutions outside of DA will be charged!
- Desktop Analytics inherits the workspace's data retention policy
 - If your workspace is on the free plan → retains the last 30 days of "daily snapshots"

How it works?



How to setup Desktop Analytics

- Good [documentation](#) about how to set up Desktop Analytics

How to set up Desktop Analytics

02/06/2020 • 2 minutes to read • 

Use this procedure to sign in to Desktop Analytics and configure it in your subscription. This procedure is a one-time process to set up Desktop Analytics for your organization.

Important

For information about the general prerequisites for Desktop Analytics with Configuration Manager, see [Prerequisites](#).

Demo: Desktop Analytics setup

DA “Telemetry” Settings

Optional settings (need manually set)

Desktop Analytics

General Applications Diagnostic Data Desktop Analytics Connection Available Functionality

To enable system, application, and driver data to be shared with Microsoft, you must configure user devices to send data. See what diagnostic data Microsoft collects and how that data is used and protected by Microsoft.

[Microsoft Privacy Statement](#)

Commercial ID

The Enhanced (limited) diagnostic data level limits Enhanced diagnostic data to the minimum required by Desktop Analytics on devices running Windows 10 version 1803 or later. If you select Enhanced (limited), devices that run Windows 10 version 1709 or earlier only report basic diagnostic data.

[Learn more](#)


Commercial data opt-in is enabled on Windows 7 and Windows 8.1 devices in the target collection independent of your selection.

[Learn more](#)

Windows 10 diagnostic data level

Starting with Windows 10 Version 1803, the device name is requires a separate opt-in

Allow Device Name in diagnostic data

 By default, devices show notifications when changes occur to diagnostic data levels. Users can change levels in settings (Windows 10 version 1803 and later).

[Learn more](#)

OK Cancel Apply

Display name	Registry value	Effect on devices enrolled in Desktop Analytics
Configure telemetry opt-in change notifications	DisableTelemetryOptInChangeNotification	Starting in Windows 10, version 1803, Windows notifies users when the diagnostic data level changes. Use this policy to disable notifications.
Configure telemetry opt-in setting user interface	DisableTelemetryOptInSettingsUx	When you configure the diagnostic data level, you set the upper boundary for the device. Starting in Windows 10, version 1803, users can set a lower level. Use this policy to prevent users from changing the diagnostic level. For more information, see Configure Windows diagnostic data in your organization .
Disable deleting diagnostic data	DisableDeviceDelete	Starting in Windows 10, version 1809, users can delete diagnostic data from the Diagnostic & feedback settings page. Use this policy to prevent the deletion of diagnostic data that Microsoft collects from the device.
Disable diagnostic data viewer	DisableDiagnosticDataViewer	Starting in Windows 10, version 1809, users can enable and open the Diagnostic Data Viewer from the Diagnostic & feedback settings page. Use this policy to disable the Diagnostic Data Viewer in Windows settings, and prevent it from showing diagnostic data that Microsoft collects from the device.

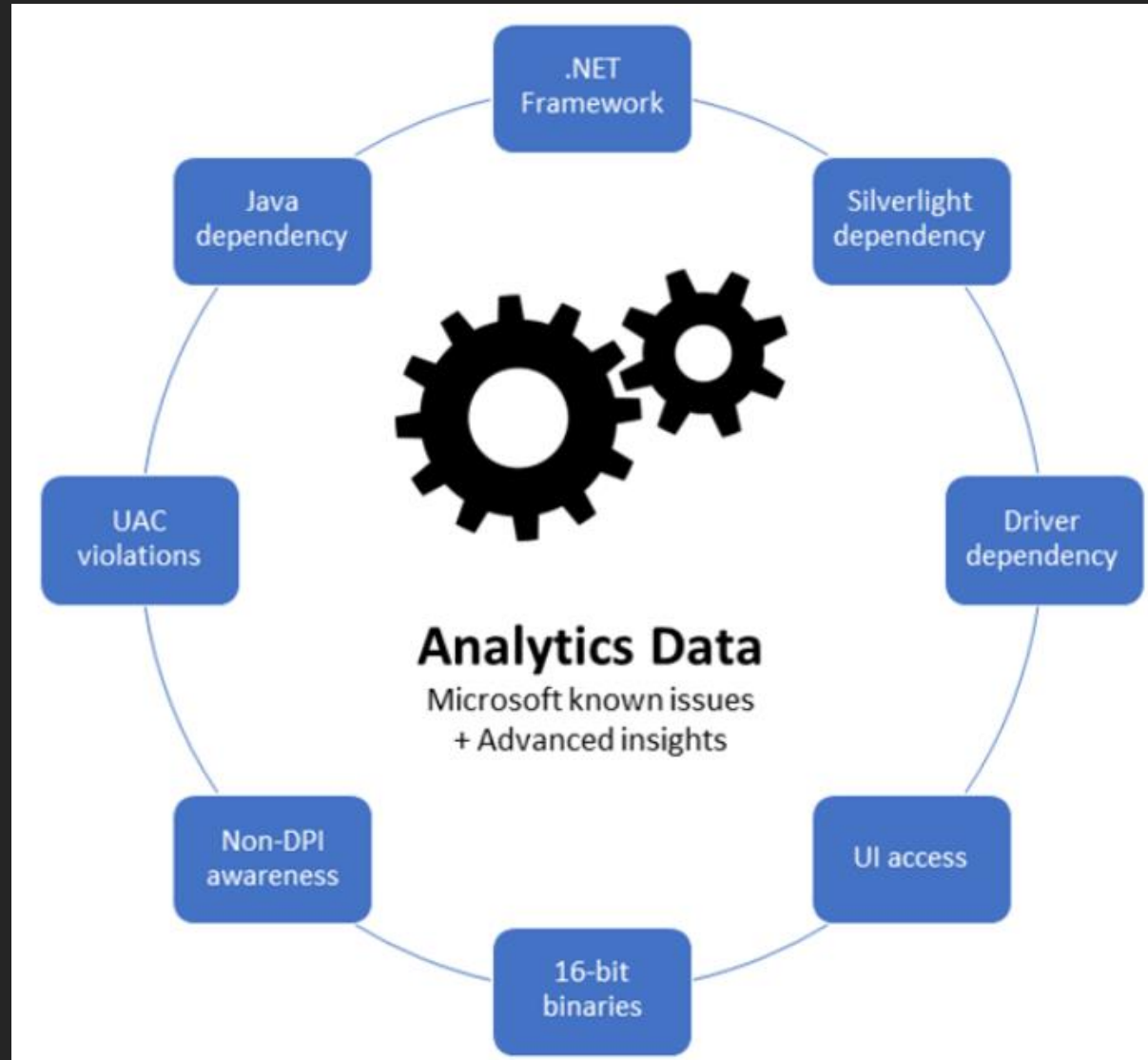
What are Deployment Plans?

- Check the compliance data against a specific Windows 10 build
 - Need a deployment plan for each Windows 10 build
- Desktop Analytics knows about whether a specific version of an application/driver is compatible with a specific Windows 10 build
 - Only drivers that are available from Microsoft update!
- Need to define upgrade decision

What you need to do for pilot?

- Decide pilot devices
 - Intelligent selection
- Specify upgrade readiness info for applications
 - Not for every app
- Any blocking apps/drivers?

App Risk Assessment



From: [Compatibility assessment - Configuration Manager | Microsoft Docs](#)

Demo: Deployment Plans

Deployment Plans in MEMCM



The screenshot displays the MEMCM (Microsoft Endpoint Manager Configuration Manager) interface. In the top-left corner, a red dashed box highlights the "Create Phased Deployment" button, which is labeled "Windows 10 20H2".

The main content area shows the "Software Library" pane on the left, with "Deployment Plans" expanded and "Windows 10 20H2" selected. The central pane displays the "Windows 10 20H2" deployment plan, including a description: "Asset readiness and importance need to be assigned in the Desktop Analytics Servicing portal before device readiness can be determined." Below this, there is a link to "Open Desktop Analytics Portal" and a "Pilot status" section showing a readiness assessment for devices in context, with a "Task sequence" dropdown and a "Deploy" button.

On the right, the "Create Phased Deployment" dialog box is open, showing the "General" tab. The dialog includes fields for "Name" (set to "Upgrade to Windows 10 20H2") and "Description". The "Task Sequence" is set to "Upgrade to Windows 10 20H2". Under the "Automatically create a default two phase deployment" option, the "First Collection" is "Windows 10 20H2 (Pilot)" and the "Second Collection" is "Windows 10 20H2 (Production)". The "Manually configure all phases" option is also visible. Navigation buttons at the bottom include "< Previous", "Next >", "Summary", and "Cancel".

Desktop Analytics and KQL

- Desktop Analytics data is stored in Log Analytics
- You can run your own Kusto Query Language (KQL) queries against DA data
- KQL queries not supported!
 - Data tables are not documented 😞
 - You just read data → cannot do any harm!

Demo: KQL Queries for Desktop Analytics

Desktop Analytics Tables

Microsoft365Analytics





















- ▶  MAAApplication
- ▶  MAAApplicationHealth
- ▶  MAAApplicationHealthAlternativeVersions
- ▶  MAAApplicationHealthIssues
- ▶  MAAApplicationInstance
- ▶  MAAApplicationInstanceReadiness
- ▶  MAAApplicationReadiness
- ▶  MADeploymentPlan
- ▶  MADevice
- ▶  MADeviceNotEnrolled
- ▶  MADeviceNRT
- ▶  MADeviceReadiness
- ▶  MADriverInstanceReadiness
- ▶  MADriverReadiness
- ▶  MAProposedPilotDevices
- ▶  MAWindowsBuildInfo
- ▶  MAWindowsCurrencyAssessment
- ▶  MAWindowsCurrencyAssessmentDailyCounts
- ▶  MAWindowsDeploymentStatus
- ▶  MAWindowsDeploymentStatusNRT

Table	Description
MAApplication	Basic application info
MADevice	Device information
MAApplicationHealth	OS version specific app health info
MAApplicationReadiness	App compatibility issues per Win10 version
MAApplicationInstanceReadiness	Devices with app compatibility issues
MADeviceReadiness	Status of Windows upgrade. E.g. success/blocked/error
MADriverReadiness	Driver compatibility info per Win10 version
MADriverInstanceReadiness	Devices with driver issues
MAWindowBuildInfo	Support info of different Windows builds
MAWindowsDeploymentStatus	Status of the deployment

Using Desktop Analytics with KQL queries

New Query 1* x + Feedback Queries Query explorer

SantaDesktopAnal... Select scope Run Time range: Last 24 hours Save Copy link New alert rule Export Pin to dashboard

Tables Queries Filter

Search

Filter Group by: Solution

COLLAPSE ALL

Microsoft365Analytics

- MAApplication
- MAApplicationHealth
- MAApplicationHealth...
- MAApplicationHealthl...
- MAApplicationInstance
- MAApplicationInstanc...
- MAApplicationReadin...
- MADeploymentPlan
- MADevice
- MADeviceNotEnrolled
- MADeviceNRT
- MADeviceReadiness
- MADriverInstanceRea...
- MADriverReadiness
- MAProposedPilotDevi...
- MAWindowsBuildInfo
- MAWindowsCurrency...
- MAWindowsCurrency...
- MAWindowsDeploye...
- MAWindowsDeploye...

```
1 MDevice
2 | project DeviceName, DeviceLastSeenDate, Manufacturer, Model, OSBuild, TotalRAM, Processor
3 | order by DeviceName asc
```

Results Chart Columns Display time (UTC+00:00) Group columns

Completed. Showing results from the last 24 hours. 00:00.2 17 records

DeviceName	DeviceLastSeenDate [UTC]	Manufacturer	Model	OSBuild	TotalRAM	Processor
Aion-laptop	1/4/2021, 9:25:29.521 AM	Lenovo	Yoga C640-13IML (81UE)	18363.1256	8	Intel Core i3-10
DESKTOP-79E99N2	1/6/2021, 10:47:05.403 AM	MICROSOFT_CORPORATION	Virtual Machine	18363.1256	2	Intel Core i7-8
DESKTOP-TG31S79	1/6/2021, 10:48:36.066 AM	MICROSOFT_CORPORATION	Virtual Machine	19042.630	2	Intel Core i7-8
KOTINUC	1/6/2021, 10:29:16.571 AM	Intel Client Systems	NUC7i7DNHE	19042.685	16	Intel Core i7-8
NUC1	1/6/2021, 10:30:20.401 AM	Unknown	Unknown	17763.1637	32	Intel Core i5-6
NUC2	1/6/2021, 10:29:52.591 AM	Unknown	Unknown	18363.1256	32	Intel Core i5-6
NUC3	1/6/2021, 10:53:01.160 AM	Unknown	Unknown	18363.1256	8	Intel Core i5-6
WIN10-1809-02	1/6/2021, 10:54:49.625 AM	MICROSOFT_CORPORATION	Virtual Machine	17763.1637	2	Intel Core i5-6
WIN10-TS01	1/6/2021, 10:34:56.902 AM	MICROSOFT_CORPORATION	Virtual Machine	18363.1256	2	Intel Core i5-6
Win10-07	1/6/2021, 10:42:24.742 AM	MICROSOFT_CORPORATION	Virtual Machine	17763.1637	2	Intel Core i5-6
panusp4	1/6/2021, 9:21:34.208 AM	MICROSOFT_CORPORATION	Surface Pro 4	18363.1256	8	Intel Core i7-6
win10-05	1/6/2021, 10:30:04.386 AM	MICROSOFT_CORPORATION	Virtual Machine	17763.1637	2	Intel Core i7-8
win10-10	1/6/2021, 10:38:19.764 AM	MICROSOFT_CORPORATION	Virtual Machine	18363.1256	2	Intel Core i5-6
win10-1909-01	1/6/2021, 10:58:23.503 AM	MICROSOFT_CORPORATION	Virtual Machine	18363.1256	2	Intel Core i7-8

Example KQL Queries (1)

- Chart of OSBuilds
MADevice
| summarize dcount(DeviceId) by OSBuild
| render piechart
- Most common Adobe application
MAApplication
| where AppVendor contains "Adobe"
| distinct AppName, AppVersion, AppVendor, TotalInstalls
| order by TotalInstalls desc

Example KQL Queries (2)

- All medium/high risk apps within a deployment plan
MADeploymentPlan | project Name, DeploymentPlanId
| join (MAApplicationReadiness) on DeploymentPlanId
| where Name contains "20H2" and (RiskAssessment == "High" or RiskAssessment == "Medium")
| distinct AppVendor, AppName, AppVersion, AHAIInsight, RiskAssessment, AdoptionStatus, Issue, UpgradeDecision
- Most common app crashes
MAApplicationHealthIssues
| summarize dcount(DeviceId) by AppName
| top 5 by dcount_DeviceId
| render piechart

Summary

- Desktop Analytics gives you valuable information about application & driver compatibility for your Windows 10 servicing
- Application usage data is useful for many purposes:
 - Most common application
 - Most common hw models
 - App crashes
- With KQL, it is easier to analyze DA data from different angles
- And it is free!



Thank you!



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