

# Custom PowerBI Dashboard using Automox API

Summary	2
Overview	2
Challenges	2
Disclaimer	3
Instructions	3
Prerequisites	3
Configuration	3
Reporting Examples	5
Health check column definitions	8
Scheduled Task	9
Considerations	11



## Summary

Automox is the easiest-to-use, most-recommended, most efficient cloud-native solution for endpoint hardening – anywhere, in an instant. Being a cloud-native platform, Automox makes it possible to manage Windows, macOS, and Linux devices with one solution without purchasing physical hardware or installing a management application.

As companies move to internet-based modern solutions, some of the challenges of legacy solutions are immediately solved, while others remain. The purpose of this document is to present the most common challenges and provide guidance on how to utilize native technologies while working to preserve the intent of a cloud-first, infrastructure-less solution.

#### Overview

Did you know a Business Intelligence solution combined with the Automox Console API can improve cybersecurity by providing improved stakeholder visibility?

In this example, we leverage PowerBI and Powershell to enable Automox users to get your data and present it in a familiar way that everyone can understand.

Using the current API and some of the many already available API calls found on the Automox community site, we can pull our data into PowerBi and display this into a report model.

You can find more API scripts and tricks in our Automox Developer Portal & API Guide: Automox Developer Portal & API Guide

## Challenges

- Console Reporting is limited to a few reports
- Limited experience with API
- Requests limits/Pagination
- Nested JSON files.
- No easy way to get device details for all devices, especially if you have more than 5000 devices



#### Disclaimer

 This isn't a replacement for Automox reporting but an example of using a business intelligence tool with the Automox API.

#### Instructions

#### **Prerequisites**

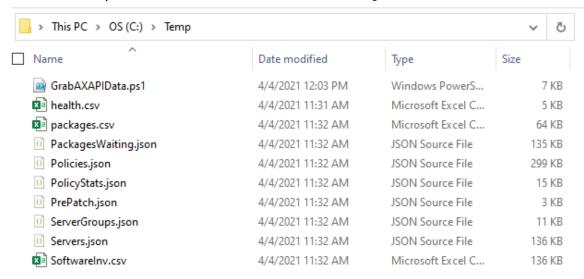
- A host server is on an Automox Supported Windows Operating System.
- Powershell ISE 5.1 or higher, with the <u>Execution-Policy</u> set to Bypass or Unrestricted.
- Server has access to the Automox Console and API.
- Automox Org ID and <u>API Key</u>.
- Download and install <u>PowerBi Desktop</u>
- Directory path of C: \temp\
- Download Powershell API script (<u>GrabAXAPIData.ps1</u> from Github repository)
- Download PowerBi template file (<u>Automox\_Reports\_Example\_v1\_wAPI.pbit</u> from Github repository).
- Optional: If you wish to run the API data sync via a scheduled task, download the template XML file (<u>AX\_ScheduledTask\_PowerBI\_Dashboard\_Data.xml</u> from Github repository).

#### Configuration

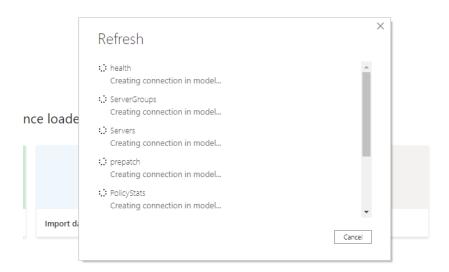
- 1. Create a new folder on your C: drive called temp
- 2. Download and save the PowerShell API script to C: \temp
- 3. Download and save the Automox\_Reports\_Example\_v1\_wAPI.pbit to C:\temp
- 4. Open the script to edit and enter your API Key & your ORG ID and save the file



Click the Run script button to execute the script. This will generate the required files for the PowerBi reports. The data file are saved in C:\temp\



6. Double click to open Automox\_Reports\_Example\_v1\_wAPI.pbit from C:\temp\. The template will open and load the data files from step 5.



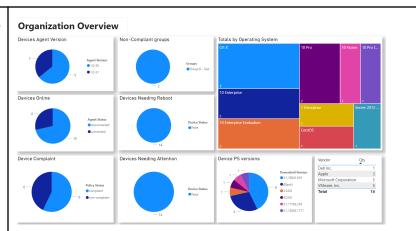
- 7. Once the data loads and you see the pre-defined reports, save the file as a PowerBi file with the .pbix extension. Use the .pbix file for viewing the report moving forward.
- 8. When you want to refresh your report data, just execute the PowerShell script, then click the refresh button in PowerBi.



## Reporting Examples

Organization overview displays information about all your devices in the Automox console.

One glance, and you can see device agent versions, devices online, devices needing a reboot, devices by an operating system, and many more.



Device details display essential information about all your devices.

With a few clicks, you can sort a column, filter, and export your data.

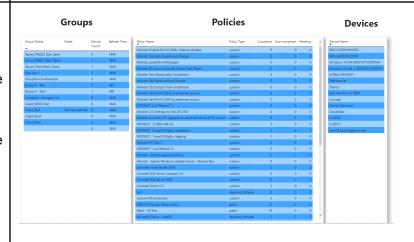
levice ID	Agent Version	Connected	Display Name	FQDN	Time Zone	Policy Status	Uptime	Last Logged in User	Needs reboot	Needs Attention	OS Name
939875	1.0-31	True	Thenos	Thanos.WORKGROUP	UTC-0400	non-compliant	1121067	THANOS/Nathan	False	False	10 Pro
928880	1.0-30	False	CLIENT2	CLIENT2.corp.contoso.com	UTC-0600	non-compliant	659495	CORP\LabAdmin	False	False	10 Enterprise Evalua
924848	1.0-30	False	CUENT1	CLIENT1.corp.contoso.com	UTC-0600	non-compliant	659949	CORP\LabAdmin	False	False	10 Enterprise Evalua
918210	1.0-31	False	WIN-UVPHMUHU0F4	WIN-UVPHMUHU0F4.WORKGROUP	UTC-0600	non-compliant	19	WIN-UVPHMIHU0F4\David McCleskey	False	False	7 Enterprise
905264	1.0-30	False	Kyle Test Win 10 1909	DESKTOP-N7CTPDV.WORKGROUP	UTC-0700	compliant	3039	DESKTOP-N7CTPDV/km942	False	False	10 Home
904791	1.0-31	True	Ironman	VM-IRONMANs-Maclocal	UTC-0400	compliant	936836	vm-ironman	False	False	OS X
904773	1.0-31	True	TheHammer	VM-THOR.WORKSROUP	UTC-0400	non-compliant	325750	VM-THOR\NLeister	False	False	10 Pro for Workstat
895808	1.0-30	False	Davids-Maclocal	Davids-Mac.local	UTC-0600	compliant	81232	david	False	False	OS X
855047	1.0-30	False	WIN-EUD6C9K2C6M	WIN-EUD6C9K2C6M.WORKGROUP	UTC-0700	compliant	396669	WIN-EUD6C9K2C6M\Administrator	False	False	Server 2012 R2 Star
769559	1.0-30	False	centOS kaoskingdom/local	centOS kaoskingdom/local	UTC-0600	compliant	23	david	False	False	CentOS
748661	1.0-30	False	UGTest-U02HE3H	DESKTOP-U02HE3H.WORKGROUP	UTC-0600	non-compliant	659147	DESKTOP-U02HE3H\David	False	False	10 Pro
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697147	1.0-30	False	DavidsMac		UTC-0600	compliant	44634	davidmccleskey	False	False	OSX
693333		True	Windows 10 x64/DESKTOP-D58ON4J	DESKTOP-DS8ON4J.WORKGROUP	UTC-0600	compliant	14794	DESKTOP-D58ON4/\David McCleskey	False	False	10 Enterprise

Groups, policies, and devices show relationships between each.

Click on a group; it will filter the policies and device visualizations.

Click on a policy; it will filter the groups and devices visualization.

Click on a device; it will filter the groups and policies visualization.





Policies give you a great view of all your policies in the Automox console.

Click on a column to sort, or use a filter to focus on a specific policy.

Policies							
Name	Package Name	notes	Policy Type	OS Family	Package Version	Device Count	
_Client_Pilot_Standard Patches (Wed 1:30pm)		Patch All except definition updates, feature updates	patch	Windows		3	
_Client_PROD_Standard Patches (Fri 1:30pm)			patch	Windows		7	
_Patch_Advanced_Microsoft_OS and Office		Exclude: SQL, Optional and Recommended Windows Updates, Definition updates, and Feature updates	patch	Windows		0	
_Patch_Clients_Defender Updates_Daily			patch	Windows		0	
Patch_Feature Updates_Manual			patch	Windows		8	
_Patch_Servicing Stack Update			patch	Windows		10	
_Patch_Test - Manual			patch	Windows		9	
7-zip	test		required_software	Windows	1.0	0	
7-Zipx64	7-Zip		required_software	Windows	19.00	2	
Clear Browser cache, cookies, history		https://community.automox.com/t/clear-cache-cookies-and-history-from-ie-and- chrome/1384	custom	Windows		2	
Config Mgr 2012r2 toolkit	ConfigMgr 2012 Toolkit R2	toolkit	required_software	Windows	5.00.7958.1151	6	
CS Sensor Installer - Servers	CS Sensor		required_software	Windows	1.2.2	0	
Disable LLMNR		https://community.automox.com/t/worklet-disable-llmnr-security-risk-windows/1413	custom	Windows		2	
Firefox International Support Upgrade			custom	Windows		0	
Gather Application and System errors		grabbed from https://community.automox.com/t/worklet-windows-event-viewer- output-application-and-system-errors-to-activity-monitor/1725/1	custom	Windows		2	
Heros_Patch_All			patch	Windows		3	
Install Chrome	Google Chrome		required_software	Windows	68.73.16456	2	
Kyle - Clear Download			custom	Windows		1	
Kyle - Open Google			custom	Windows		1	
Microsoft Teams - macOS	Microsoft Teams		required_software	Mac	1.00.333671	1	
Patch - All Test		Testing if Disabled Policy can be attached and if compliance changes based on active/inactive state of this policy	patch	Windows		14	
REBOOT-Primary-Patch-Policy			patch			0	
remove MS bloatware			custom	Windows		2	
test	notepad++		required_software	Windows	1.2	0	
Uninstall Python 2.7			custom	Windows		2	
Uninetal SOL Server 2005			custom	Windows		2	

Policy Stats gives you a great view of your policy compliance in the Automox console.

Click on a column to sort, or use a filter to focus on a specific policy.

### **Policy Stats**

Policy Name	Policy Type	Pending	Compliant	Non-Compliant
_Client_Pilot_Standard Patches (Wed 1:30pm)	patch	0	3	0
_Client_PROD_Standard Patches (Fri 1:30pm)	patch	0	7	0
_Patch_Advanced_Microsoft_OS and Office	patch	0	0	0
_Patch_Clients_Defender Updates_Daily	patch	0	0	0
_Patch_Feature Updates_Manual	patch	0	8	0
_Patch_Servicing Stack Update	patch	0	10	0
_Patch_Test - Manual	patch	0	9	0
7-zip	required_software	0	0	0
7-Zipx64	required_software	0	2	0
Clear Browser cache, cookies, history	custom	0	2	0
Config Mgr 2012r2 toolkit	required_software	4	2	0
CS Sensor Installer - Servers	required_software	0	0	0
Disable LLMNR	custom	0	2	0
Firefox International Support Upgrade	custom	0	0	0
Gather Application and System errors	custom	2	0	0
Heros_Patch_All	patch	2	1	0
Install Chrome	required_software	0	2	0
Kyle - Clear Download	custom	1	0	0
Kyle - Open Google	custom	1	0	0
Microsoft Teams - macOS	required_software	0	1	0
Patch - All Test	patch	0	14	0
REBOOT-Primary-Patch-Policy	patch	0	0	0
remove MS bloatware	custom	0	2	0
test	required_software	0	0	0
Uninstall Python 2.7	custom	0	2	0
Uninstall SQL Server 2005	custom	0	2	0
Uninstall SQL Server Compact 3.5	custom	0	2	0
Uninstall Visual Studio 2008	custom	0	2	0
Worklet - Gather Windows Undate Events - Manual Run	custom	0	0	0

Pre-patch displays a list of all the scheduled patches per device along with severity and exposure information allowing you to effectively assess internal impact.

Click on a column to sort or

#### **Pre-Patch Report**





use a filter to focus on a									
specific device or patch name.									
Report displays packages available to install in your	Packages Waiting								
		isplay Name			Name	Requirs Re	boot Cves		CVE Score Create Time A
organization	10 Enterprise 21 10 Enterprise M	21-01 Update for W icrosoft Silverlight (	Windows 10 Version 19 KB4481252)	KO9 for x64-based Systems (KB4589211)	7600658e-0e81-47c6- ca3bb521-a8ea-4e26-	8cbb-597cf05b9b0c True a563-2ad6e3108b9a False			3/9/2021 5/03/32 PN 5/12/2020 10/37/36
Š	10 Enterprise M	icrosoft Silverlight (F	KB4481252)		ca3b5521-a8ea-4e26-	a563-2ad5e3108b9a False			5/14/2020 8:34:29 A
	10 Enterprise Se			Defender Antivirus - KB2267602	K82267602	False			4/12/2021 812/22 A
	10 Enterprise U, 10 Enterprise Evaluation 21			for Windows 10 Version 1909 for x64-based systems (X84577 XH2 for x64-based Systems (X84589212)	(586) aee1e444-20c7-4adb- d24f2611-9859-40c3-	9bb6-e29cas13c407 True b3b7-d8d0692118e5 True			2/16/2021 5:00:44 P 3/10/2021 2:04:49 P
	10 Enterprise Evaluation 20	021-02 Cumulative U icrosoft Silverlight (f	Jpdate Preview for .NI KR44812521	T Framework 3.5 and 4.8 for Windows 10, version 20H2 for a	64 (KB4601554) 95c24as9-2195-4a7c-1	a563-2ad5e3108b9a False			2/24/2021 2:11:00 P
	10 Enterprise Evaluation   Se	curity Intelligence U	Jpdate for Microsoft C	Defender Antivirus - KB2267602	K82267602	False			4/6/2021 1/27/20 PM
	10 Home 21	020-10 Currolative U	Jpdate for NET Frame	109 for x64-based Systems (XB4465065) Work 3.5, 4.7.2 and 4.8 for Windows 10 Version 1809 for x64	(K84579976) c6a3fca7-5506-4b77-	8d8f-3d110993b8dc True ad64-8d3e55079023 True	CVE-21	020-1147	6/3/2020 7:53:41 AF 9 10/21/2020 7:07:05
	10 Home 21 10 Home 21	20-10 Currelative U 20-10 Security Up:	Jpdate for .NET Frame late for Adobe Flash P	work 3.5, 4.7.2 and 4.8 for Windows 10 Version 1809 for x64 layer for Windows 10 Version 1809 for x64-based Systems (K	(X84579976) c6a3fca7-5506-4b77-4 B4580325) 57157b26-0a2a-4232-	ad64-8d3e55079023 True 81cd-6206b98011ad True	CVE-21 ADV20	020-16937 00012	9 10/21/2020 7:07:05 9 10/21/2020 7:07:05
	10 Home 21	20-10 Update for W	Windows 10 Version 18	109 for x64-based Systems (KB4023057)	765e2239-d387-40fb-	a100-7f9539c1d528 False			11/23/2020 840.41
	10 Home Fe		ndows 10, version 190	9 0	9acbd1c8-4554-47cb-	806d-fac9715fccfd False			1/29/2021 3:12:16 9
	10 Home M	icrosoft NET Frames icrosoft Silverlight (f	work 4.8 for Windows KB4481252)	10 Version 1809 for x64 (KB4486153)	b885d48a-be89-4b3b ca3bb521-a8ea-4e26-	-9e02-66896c88b568 True a563-2ad5e3108b9a False			5/23/2020 7:31:42 P 5/12/2020 1:34:33 P
l	10 Home Se	curity Intelligence U	Jpdate for Microsoft (	Defender Antivirus - K82267602 x64 - v5.85 (K8890830)	K82267602	False 06af-f3a334233f36 True			2/2/2021 12:34:37 A 1/29/2021 3:12:16 F
l	10 Pro 21	121-01 Update for W	Vindous 10 Version 20	04 for x64-based Systems (KB4589212)	a0002032-a656-4863	-bbe6-4b05ba4aea5f True			3/9/2021 5:02:21 PN 5/12/2020 1:44:45 P
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l	10 Pro Se 10 Pro U	curity Intelligence U pdate for Removal C	Jpdate for Microsoft D of Adobe Flash Player	Defender Antivirus - KB2267602 for Windows 10 Version 2004 for x64-based systems (KB4577	K82267602 (586) 54986459-424d-4801-	False b335-7404794df61c True			4/12/2021 602:10 A 2/16/2021 500:32 P
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## Health check column definitions

Name	Device name
Agent Version	Upgrade all agents to latest agent version
PS version	PowerShell version on the device
Auto Update Option	Provides the Automatic Update options last collected from each agent during the last scan before I collected the environment data. The settings can be set in different ways (1. By the OS Patch Management settings in the Automox group the agent belongs to, 2. If the OS Patch Management settings in the group is set to keep settings, it will be set locally, by GPO, or if there is another management system configuring patch processes). Our best practice is to only use one method to manage the patch management settings. As an example, if you want Automox to manage the settings, set the "Windows and macOS Patch Management" setting to "Disable OS Automatic Updates", and Set the "Windows Update Source" to either "Windows Update" or "WSUS" depending on where you want the devices of that group to search.  Disable other patch configuration settings (example, if you use SCCM/Jamf, stop setting patch configurations via agent settings. If you set Windows Update settings with GPO, remove those settings or set to unconfigured in GPO. The important point is to use only one source to configure these settings.  {"ENABLED": "0", "OPTIONS": "off"} for Windows, and {"ENABLED": "0", "OPTIONS": "off"} for Windows, and the Automox policy will define what patches to download, and the schedule for installation.
WSUS Config	WSUS settings defined on the client. WSUS_Server is blank if using Windows Updates as the source, and will list the WSUS server if WSUS is the source. WSUS_Managed, 0 = not WSUS managed, and 1 = WSUS managed. REACHABLE is only relevant if WSUS managed, 0 = Not reachable, 1= Reachable.
WSUS Update Source	Lists if there was an error connecting to the update source, and if it was connected. This will present the devices that failed the update source check visible in the console under compatibility tests.
WMI Check	Windows only, check for WMI corruption
Need Reboot	Device needs a reboot
Last Disconnect time	Lists when a device last disconnected from Automox. If it is empty, it is active. You can use this to identify devices that have not checked-in recently.

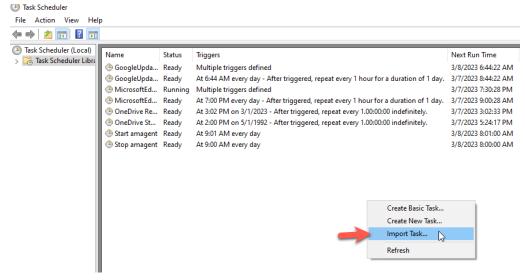


Last Refresh Time	Lists the last time a scan was performed. If the date is missing or is very old, the device has either been offline for a substantial period, or the agent is no longer working correctly.  Note: if the device is active and not on agent 40 or higher, please try running the Catalog Worklet named Install Latest Agent On Systems With Old Agents.
Pending Patches	Number of patches needed based on policy at last successful scan. Can be compared to Column (patches) for analysis of what is available vs targeted to install.
OS Version	Review for Automox supported OS versions - Automox Agent Requirements
Free (GB)	Free disk space

#### Scheduled Task

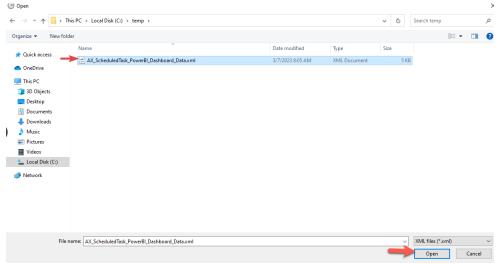
**Optional**: A Scheduled Task can be configured to regularly run the API script and update the PowerBI data files.

- Download the Scheduled Task template XML from <u>AX ScheduledTask PowerBI Dashboard Data.xml</u> Github repository.
- 2. Open Task Scheduler on your host server.
- 3. Right click and select Import Task.

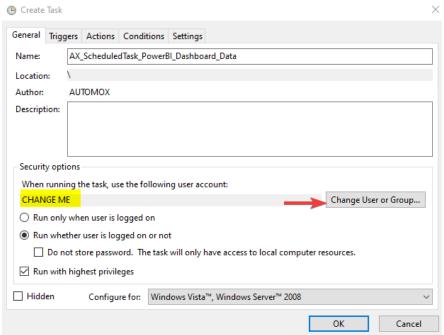


4. Select and import the XML File.



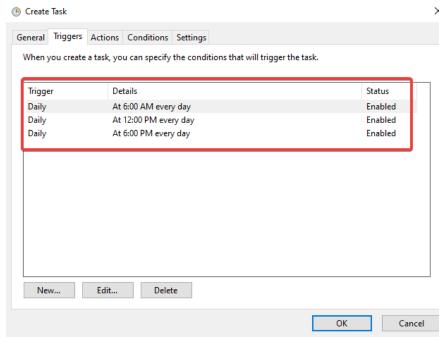


5. Change the security principle that the API script should run as (Example: SYSTEM or a privileged domain user.



6. Define when the scheduled task should run. By default it is scheduled to run three times a day at 6am, 12pm, and 6pm.





#### Considerations

If the name of or path to the API script changes, you will need to update this by going to Actions, Edit, and then modifying the file name or path after -File in the "Add Arguments" section.

