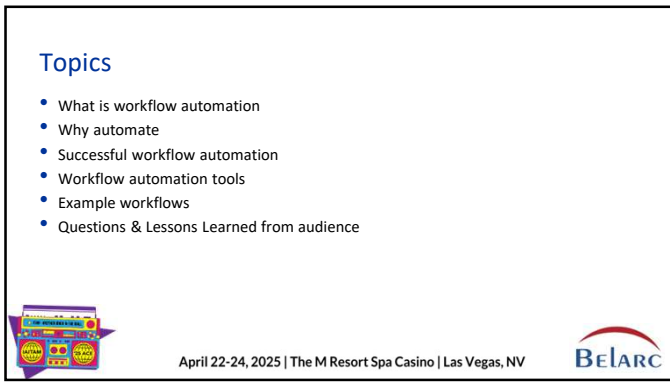
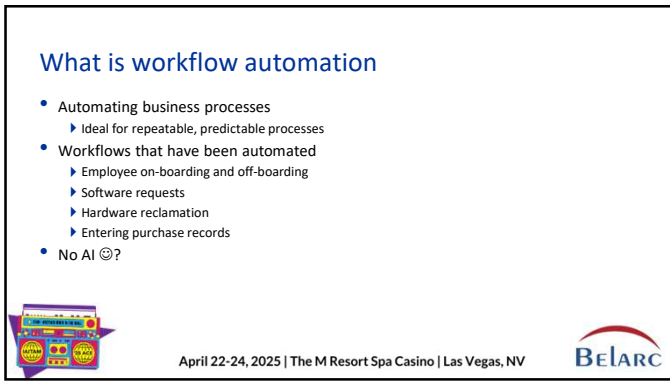




1




2




3

Why automate

- Improve efficiency and reduce errors
- Compliance with business processes & regulations
- Improved communication among different groups
- Cost savings
- Improved customer service
- Improved data security
- More & better visibility for SAM & HWAM




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Why automate now

- More processes are based on digital data
- Many choices in workflow automation tools
- Many out-of-the box templates
- AI can help ☺!




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Successful workflow automation

- Starts with the data
 - ▶ Automated, accurate, up-to-date
 - ▶ For ITAM this means
 - Detailed hardware
 - Detailed software and actual usage
 - Vulnerable and EOL software
- Data format
 - ▶ Can be almost any format even Excel spreadsheets ☺
 - ▶ Automated, accurate and up-to-date
 - ▶ Usually in a common database format, such as SQL.




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Workflow automation tools

- Hive, Smartsheet, Monday, Jira, Zapier, Trello, Asana, Nintex,...
- Our SAM & HWAM workflow examples use Microsoft Power Automate
- Decide on a tool based on
 - Templates for the processes you wish to automate
 - Interfaces to your apps or data sources
 - SAP, Oracle, Salesforce, Stripe, etc.




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Workflow automation examples

- Employee on-boarding & off-boarding
- Software requests
- Hardware reclamation
- Unauthorized, vulnerable & EOL software
- Entering Purchase Orders

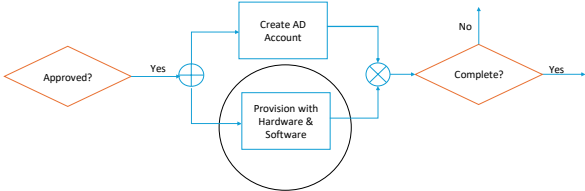


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Employee On-boarding Example



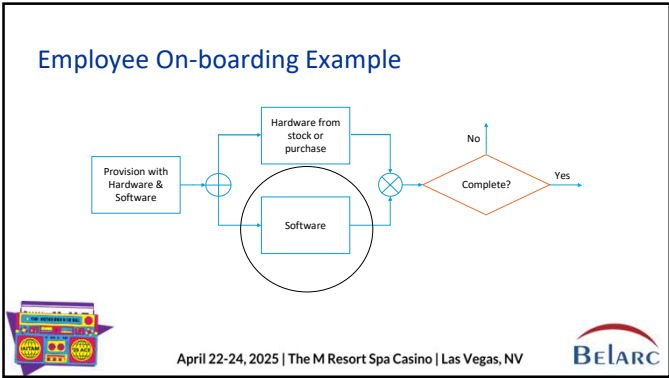
```
graph LR; A{Approved?} -- Yes --> J(( )); J --> B[Create AD Account]; J --> C[Provision with Hardware & Software]; B --> D(( )); C --> D; D --> E{Complete?}; E -- No --> A; E -- Yes --> Exit(( ));
```



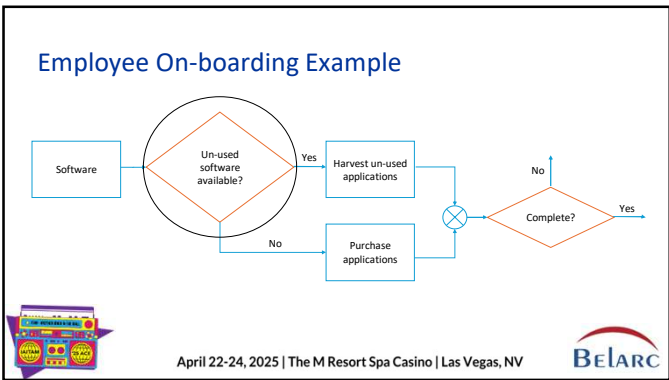
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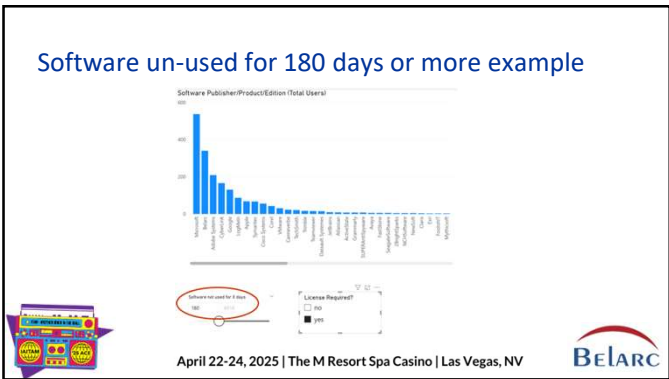
9



10



11




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Microsoft un-used software example

Company	Product	Edition	Version	License Model	Login/User	Last Used Time	By User	Computer Name	Last Used Time	Computer
Microsoft	Microsoft 365	Apps for enterprise	5.6	cloud user	mohamp	1/1/2024 12:36:00 AM	BANARJYDEV		1/1/2024 12:36:00 AM	
Microsoft	Visual Studio	Professional	5.022	cloud user	profira	10/20/2023 12:30:00 PM	TORPUGAL20		10/20/2023 12:30:00 PM	
Microsoft	Microsoft 365	Apps for enterprise	5.6	cloud user	zhangia	10/21/2023 7:27:00 PM	BEKID0MCS		10/21/2023 7:27:00 PM	
Microsoft	Microsoft 365	Apps for enterprise	5.6	cloud user	rangini	10/21/2023 1:10:00 PM	SHAKUPH02		10/21/2023 1:10:00 PM	
Microsoft	Visual Studio	Professional	5.022	cloud user	gorabei	10/20/2023 9:06:00 AM	ADSKF31ARP1		10/20/2023 9:06:00 AM	
Microsoft	Project	Professional	2016	device	iteadm	10/20/2023 4:36:00 AM	ADSKF31ARP1		10/20/2023 4:36:00 AM	
Microsoft	Visual Studio	Professional	5.022	cloud user	iteam	10/19/2023 9:10:00 PM	ADSK1144061487		10/19/2023 9:10:00 PM	
Microsoft	Visio	Professional	2016	device	parflog	10/19/2023 4:51:00 PM	ADSKF3120Q76		10/19/2023 4:51:00 PM	
Microsoft	Visio	Unknown	2021	device	lati	10/18/2023 8:40:00 AM	SFC0FL17083		10/18/2023 8:40:00 AM	
Microsoft	Visual Studio	Professional	5.019	cloud user	thutia	10/17/2023 4:23:00 PM	SFC0V0602		10/17/2023 4:23:00 PM	
Microsoft	Visio	Unknown	2021	device	kahlas	10/17/2023 1:47:00 PM	MAZPC140V1H		10/17/2023 1:47:00 PM	
Microsoft	Project	Unknown	2021	device	vennam	10/17/2023 10:35:00 AM	REHFPQ2LUN		10/17/2023 10:35:00 AM	
Microsoft	Visual Studio	Professional	5.019	cloud user	zhulan	10/17/2023 9:12:00 AM	MAZQVW402		10/17/2023 9:12:00 AM	
Microsoft	Project	Professional	2016	device	siion	10/17/2023 5:40:00 AM	ADSKF3120Q76		10/17/2023 5:40:00 AM	
Microsoft	Visio	Unknown	2021	device	skidmou	10/17/2023 5:17:00 AM	ADSKF3120Q76		10/17/2023 5:17:00 AM	
Microsoft	Project	Unknown	2021	device	takahay	10/16/2023 6:04:00 PM	TKH0R0VYNSA		10/16/2023 6:04:00 PM	
Microsoft	Project	Professional	2016	device	castali	10/16/2023 8:12:00 AM	ADSKF3120Q76		10/16/2023 8:12:00 AM	

This data is automatically sent to Power Automate and a service ticket is created.

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Creating workflow with Power Automate

Data from Belarc's BelPower:


- Un-used software to harvest
- Software to provision to employees
- Software to update or remove
- Users to add or remove from AD
- Hardware to provision or reclaim



Create a button that triggers automated tasks without leaving Power BI. Learn More


- Add data**
Drag the fields needed for your flow (automated task) into the field well.
- Set up your flow**
Select data on the menu options (...) menu of this visual, and follow the instructions to create a flow.
- Apply and share**
Select Apply to connect the flow to your button. Make sure you share the flow with the report readers who need access to use it.
- Format your button**
Resize and format your Power Automate button.

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Creating workflow with Power Automate




On Power BI button clicked

Search connections and actions


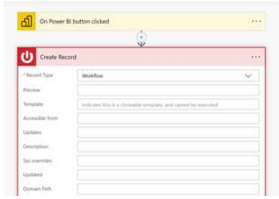
Triggers	Actions	See more
Create Record	PREPARED	
Update Record	PREPARED	
Get Record	PREPARED	
Get Record	PREPARED	
Get Record	PREPARED	
Update Record	PREPARED	
Get Record	PREPARED	
Get Record	PREPARED	

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Creating workflow with Power Automate


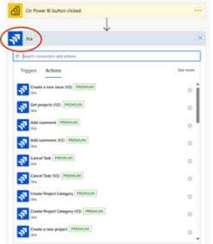


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Creating workflow with Power Automate




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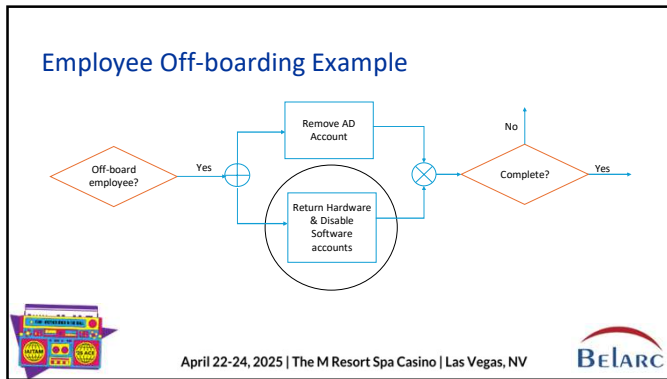
Creating workflow in Power Automate



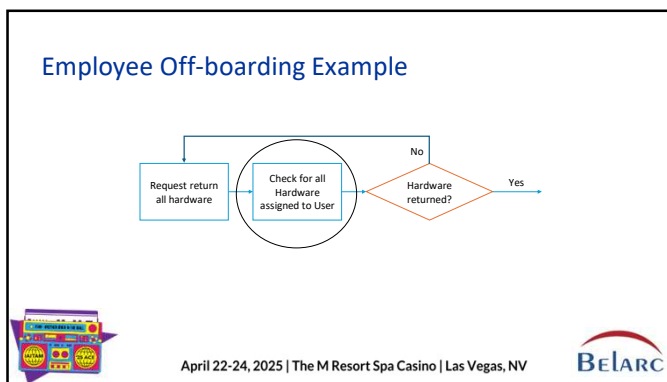
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Hardware from Discovery database

Systems List

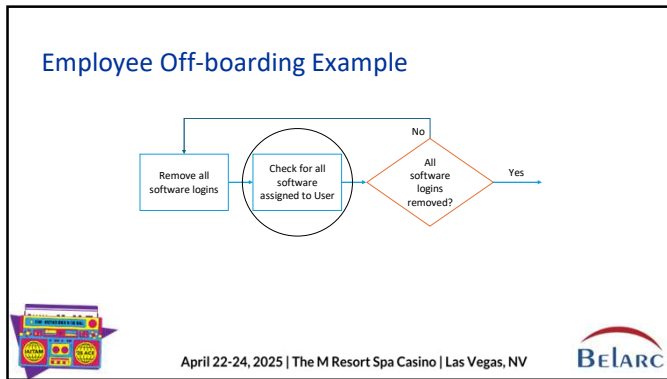
Computer	Login User	System Make	System Model	MachineClass	MachineType	OS Name	OS Version	OS Edition	PrimarySerialNumber
desk_2503	1011	ASUS	All Series	Workstation	P	Windows	10	Professional (x64)	131220223004790
desk_1314	1011	Dell	OptiPlex 3020	Workstation	P	Windows	10	Professional (x64)	75C1382
desk_2506	1011	Dell	Vostro 470	Workstation	P	Windows	10	Professional (x64)	342TNNW1

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Software from Discovery database

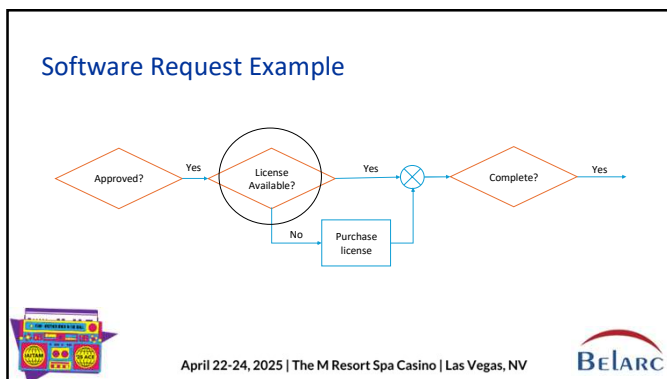
Software List

Company	Product	Edition	Version	License Model	License Required	Subscription Assigned	ProductKey	Logins	getUseTimeByUser
Microsoft	Windows	Professional	10	device	yes	no		1011	5/6/2021 6:38:00 AM
Microsoft	Windows	Professional	10	device	yes	no		1011	5/6/2021 6:38:00 AM
Microsoft	Windows	Professional	10	device	yes	no		1011	5/6/2021 6:38:00 AM
Belarc	BelarcClient	None	8	device	yes	no	3d7a172f	1011	5/6/2021 5:39:00 AM
Google	GoogleEarth Pro	None	7	device	yes	no		1011	5/16/2019 10:00:00 AM
Microsoft	Office	Standard	2019	device	yes	no		1011	5/6/2019 7:30:00 PM
Adobe Systems	Photoshop	None	CS2	user	yes	no	1005-1402-5985-1004-0543-1401	1011	4/18/2018 6:44:00 PM
Adobe Systems	Illustrator Designer	None	9002	user	yes	no		1011	
Autodesk	AutoCAD	2017	2017	user	yes	no	353-29499945	1011	
Autodesk	AutoCAD	2017	2017	user	yes	no	353-29499945	1011	
Cisco Systems	Webex Meetings	None	10032	user	yes	no		1011	
CyberLink	Power2Go	None	12	device	yes	no	M63107728-02	1011	
CyberLink	Power2Go	None	8	device	yes	no	2007010303-02	1011	
Microsoft	Project	Standard	2010	device	yes	no	62708-8808-1011-07400-89706	1011	

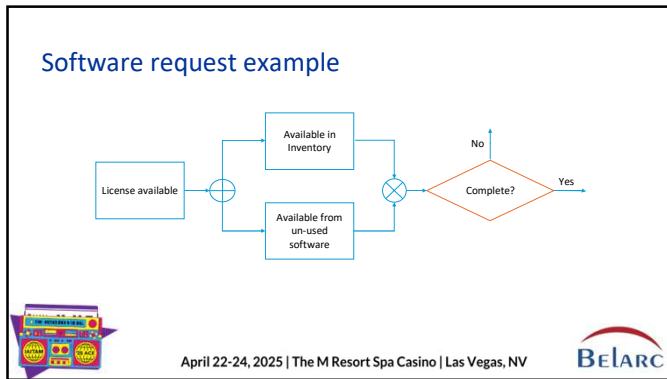
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Adobe un-used software

ScriptProduct	ScriptType	ScriptUserDomain	ScriptCountry	Product	Edition	Version	LicenseType	LoginUser	LoginUserEmail	LastUsedTime
All Apps	Adobe	abcoyz	USA	Creative Cloud All Apps	Enterprise	2020	cloud user	39578	39578@abcoyz.com	08/06/2020
All Apps	Adobe	abcoyz	USA	Creative Cloud All Apps	Enterprise	2020	cloud user	116130	116130@abcoyz.com	04/30/2020
All Apps	Adobe	abcoyz	USA	Creative Cloud All Apps	Enterprise	2020	cloud user	131309	131309@abcoyz.com	04/14/2020
Photoshop	Adobe	abcoyz	USA	Photoshop	None	2020	cloud user	107561	107561@abcoyz.com	03/06/2020
All Apps	Adobe	abcoyz	USA	Creative Cloud All Apps	Enterprise	2020	cloud user	13278	13278@abcoyz.com	03/05/2020
InDesign	Adobe	abcoyz	USA	InDesign	None	2020	cloud user	13278	13278@abcoyz.com	03/05/2020
InDesign	Adobe	abcoyz	USA	InDesign	None	2018	cloud user	13142	13142@abcoyz.com	02/20/2020
After Effects	Adobe	abcoyz	USA	After Effects	None	2019	cloud user	23248	23248@abcoyz.com	01/21/2020
Illustrator	Adobe	abcoyz	USA	Illustrator	None	2020	cloud user	112192	112192@abcoyz.com	01/20/2020
Photoshop	Adobe	abcoyz	USA	Photoshop	None	2019	cloud user	112192	112192@abcoyz.com	01/20/2020

Software not used for X days: 12 (0/12)

License required: ☐ no ☒ yes

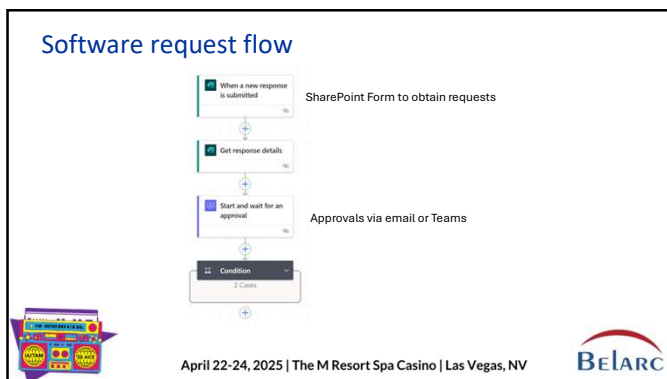
Subscription assigned: ☐ no ☒ yes

Product Has Subscription: ☐ yes

This data is automatically sent to Power Automate and a service ticket is created.

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Software request flow

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Software request flow - Connectors

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Software request flow – SharePoint site

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Software request flow – BelPower on Power BI

Product	Qty Surplus
ACDSee Canvas X	11
ACDSee Photo Studio	18
ACDSee Video Studio	11
After Effects	97
ArcGIS for Desktop	118
AutoCAD Architecture	44
AutoCAD Civil 3D	7
AutoCAD Mechanical	14
Camtasia	552
Creative Cloud All Apps	62
Dreamweaver	99
Illustrator	94
InDesign	94
Office	-1347
Photoshop	83
Postman	83
Premiere Pro	97
Project for Office 365	22
Visio for Office 365	12
Visual Studio	64

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Software request flow – Flow history on SharePoint

Request ID	Date/Time	Request Details	Approved	Available in inventory	Available from borrowing	Software delivered
419/2023 12:08:48		Creative Cloud All Apps sami@belarc.com 4/19/2023 12:08:48 PM	Approved: Samir Thani sami@belarc.com Request Approved Request Date: Wednesday, April 19, 2023 12:08:48 PM	Available in inventory: 706 L2CreativeCloudSoftware@belarc.com Creative Cloud All Apps Approved Request Date: Wednesday, April 19, 2023 12:08:48 PM		
52	4/19/2023 11:08:48	Office sami@belarc.com 4/19/2023 11:08:48 PM	Approved: Samir Thani sami@belarc.com Request Approved Request Date: Wednesday, April 19, 2023 11:08:48 PM	Not available in inventory: Office - 1347		

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Hardware reclamation example

```
graph LR; A([Identify computers that have not reported and not returned.]) --> B[Email reminder to user to return hardware]; B --> C{Hardware returned?}; C -- Yes --> D[ ]; C -- No --> A;
```

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Hardware reclamation example

ComputerName	LogonUser	Email	SystemManufacturer	SystemModel	EnclosureType	SystemSerialNumber	ChassisAssetTag	Computer UUID
Steve's MacBook Pro	stevenshall		Apple	MacBookPro11,1	Laptop	FVFT4EDQJ3DP		0239PCIA-4ED3-5A8F
Ramon's MacBook Pro	santosieram		Apple	MacBookPro16,1	Laptop	C0GJ13MDT		AA691871-2AC5-50D3
ACS's MacBook Pro	andrianagutierrez		Apple	MacBookPro16,2	Laptop	C02CF1RLVDL		33D61916-91A6-5752
ACS's MacBook Pro	dayanj		Apple	MacBookPro16,2	Laptop	C02D70MYMD6T		5F77767A-5D41-5355
ACS's MacBook Pro	ecuberty		Apple	MacBookPro16,2	Laptop	C02D54H4RLJ5		5A08E000-4CC9-5308
Audrey's MacBook Pro	sangha		Apple	MacBookPro16,1	Laptop	C02FFJQDM06N		E3181495-0433-58BC
admin's MacBook Pro	admin		Apple	MacBookPro11,3	Notebook	C02NR4W1G1QD		79D0581D-4385-5578
admin's MacBook Pro	admin		Apple	MacBookPro16,1	Laptop	C02FC4QMD0MT		BF794794-0A62-523A
admin's MacBook Pro	camalun		Apple	MacBookPro16,3	Laptop	C029V03JHTDP		8C362A46-0025-5E11
administrator's MacBook Pro	adi		Apple	MacBookPro16,1	Laptop	C02Z6WQMD0N		A3842644-87DC-5268

Not reported in 30 days and not returned computers.
This data is automatically sent to Power Automate and a service ticket is created.

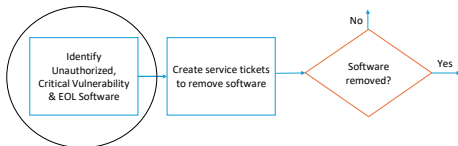


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Unauthorized, Vulnerable & EOL Software example

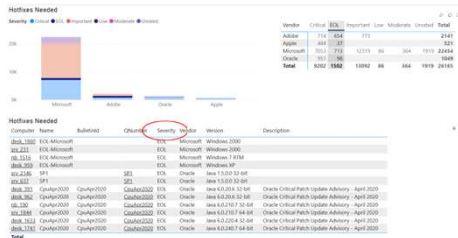


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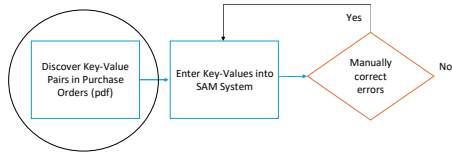


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Unauthorized, Vulnerable & EOL Software example



Automate entering Purchase Orders

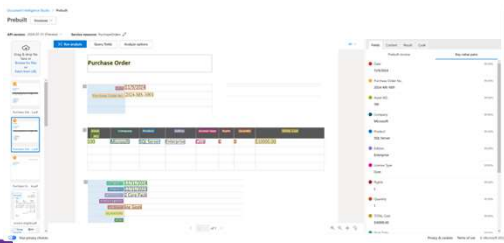


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Automate entering Purchase Orders



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Summary

- Workflow automation offers major benefits to organizations of all sizes
 - Better customer service
 - Better results and reduced errors
 - Compliance with regulations
 - Cost savings
 - Better data security
 - **Better visibility for SAM & HWAM**
- SAM can initiate workflow automation within your organization
 - Its all about the data and making it available
 - Automated, accurate, up-to-date


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Belarc

- Over 1,800 customers worldwide
 - ▶ Autodesk, Environmental Protection Agency, Federal Aviation Administration, Patent & Trademark Office, Department of State, US Air Force
 - ▶ Many long term >10 years
 - ▶ Located in 50 countries
- Eight US and Worldwide Patents
- Founded 1997, privately owned



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Questions & Lessons Learned from audience

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info@belarc.com
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