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Endpoint Security in industry 4.0 era



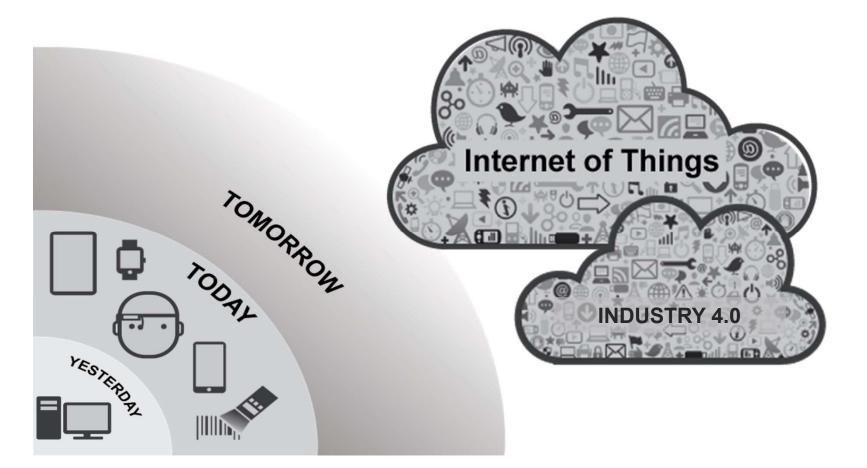
Marek WODA, PhD Senior Technical Consultant

Industry 4.0 Era – pains & gains

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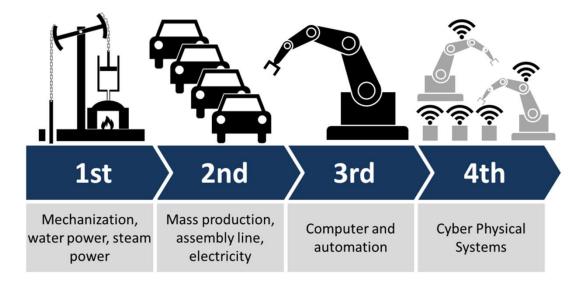
Evolution of the Workplace



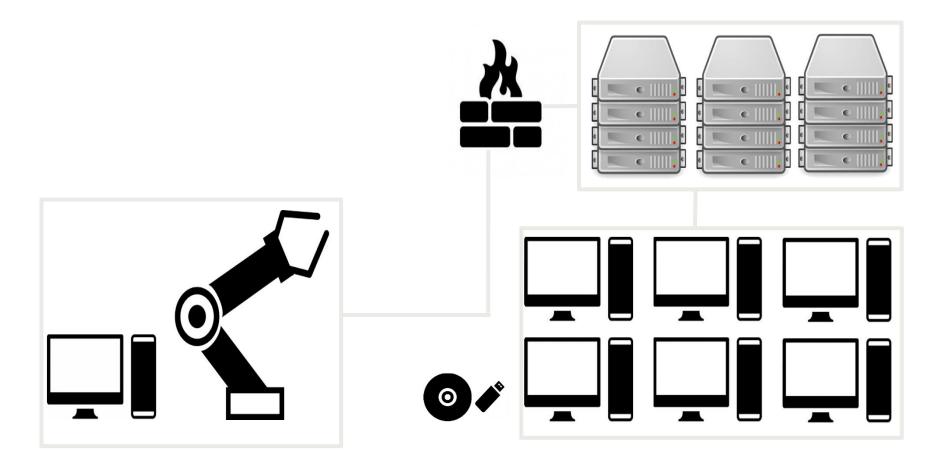
Industry 4.0 – Definition

Current trend of automation and data exchange in manufacturing technologies. It includes cyber-physical systems, the *Internet of Things* and *Cloud Computing*

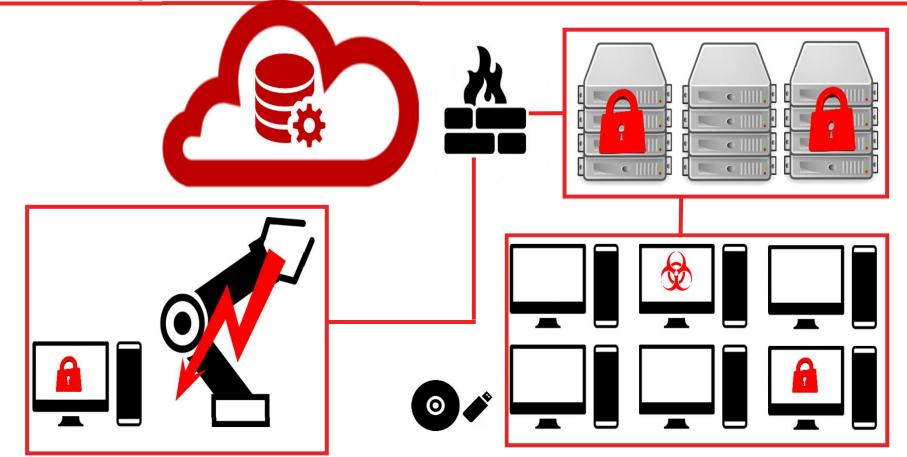
Flexible Low Cost Automation



Industry 4.0 – Scenario



Industry 4.0 – Scenario



Industry 4.0 – Facts

Every second a company is hit by digital attacks





USERS

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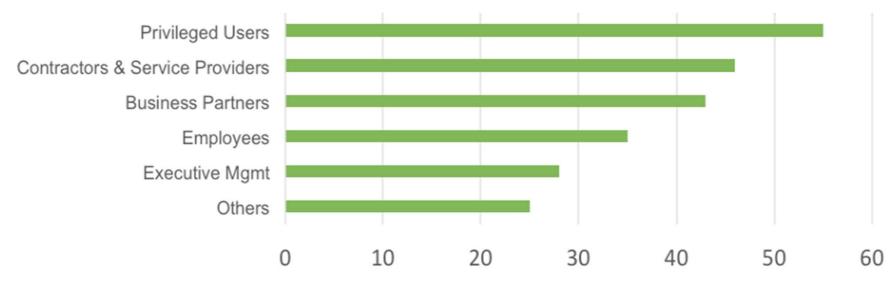
USERS

60% Attacks are targeted to end user!

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Threat #1

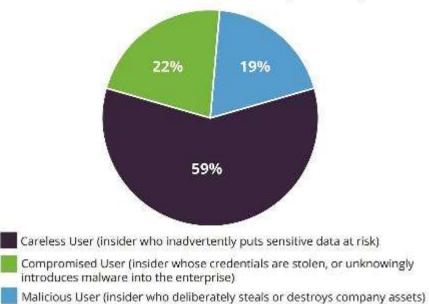
Percentage by User Group



https://www.skyhighnetworks.com/cloud-security-blog/protecting-against-your-biggest-vulnerability-privileged-user-threat/

Threat #1

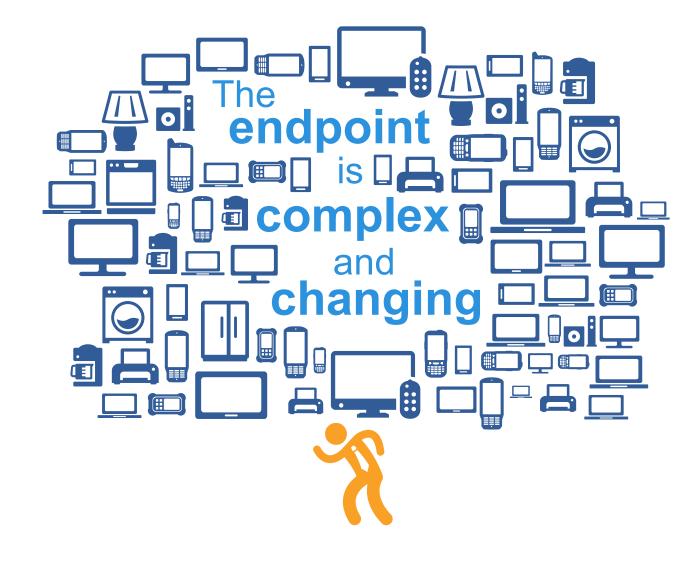
What Kind of Internal Threat (from Employee or Contractor) Are You Most Worried About? (select one)



https://www.imperva.com/blog/top-insider-threat-concern-careless-users-survey/

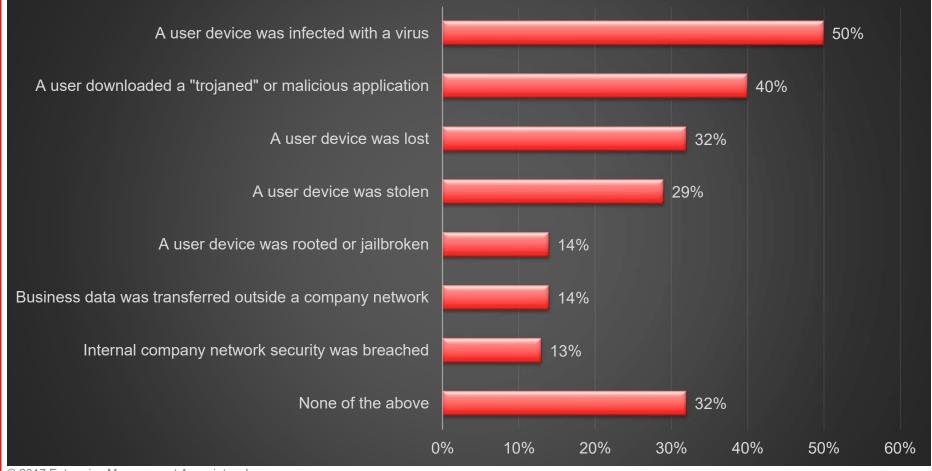


DEVICES



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Which of the following security breaches occurred in the last 12 months in your organization?



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70% 35% MOBILE DEVICE LAPTOP PC

personally own the devices they use to perform their jobs

40%

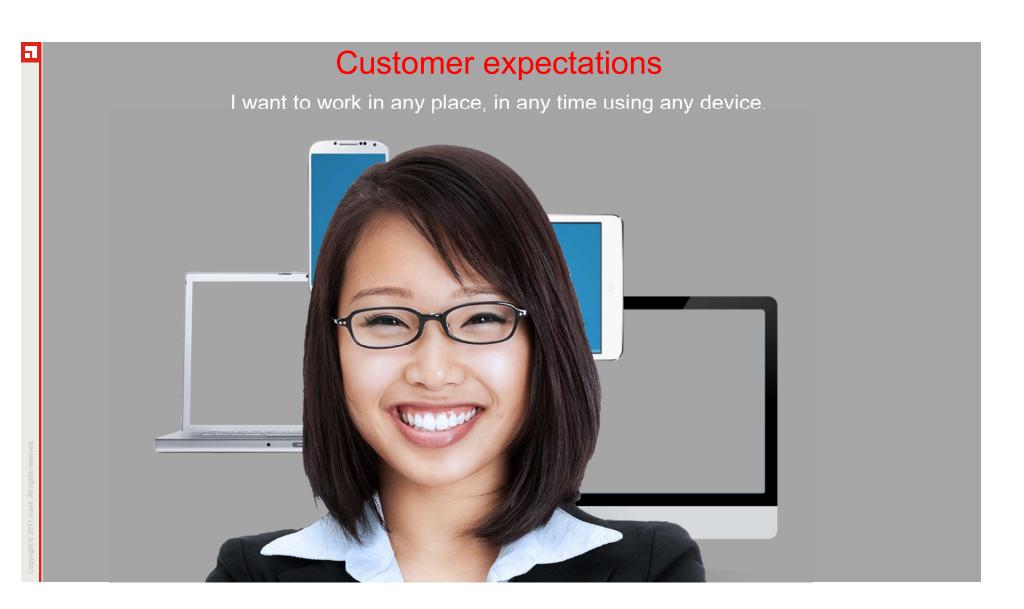
regularly use insecure methods for sharing company data **50%**

all business tasks are performed outside the physical workplace



surveyed organizations indicate they are fully prepared to support all modern endpoint management requirements

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Process Chaos

67% of service desks

time is spent firefighting

"I am stuck in firefighting long call queues, call abandonment, rates, resolution times are up rather than service improvement" I have to balance current needs with new but we don't get additional resources"

> "We are inconsistent in the way we handle issues"

SDI Benchmarking Report

"We are our own worst enemy in some cases our service level breaches have been caused by our own changes"

Dissatisfied End User Customers

96[%] of desks state that

of desks state that they will use more self-help and self service facilities in the future

SDI Benchmarking Report

"My end users are complaining they can't get access to new applications quickly"

> "We have long call queues and 30% are just password reset requests"

"IT does nothing to help me in my job, I'll find my own IT software"

What is going on

"I can't see into our operation to justify our performance or budget requirements for more resources"

> "I can't pull the reports I need quickly"

"We don't always get information from other IT teams"

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of respondents do not measure cost per call, and 74%

do not measure cost per email

SDI Benchmarking Report

IT Complexity

52% Do not have enough resource available

SDI Report – Anatomy of a Service Desk



Said that their service desk needs to be more efficient "We can't leverage existing IT investments so we are using several siloed systems to manage the service desk."

> " We are creating errors and unnecessary delays through our own inefficiencies."

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Service Desk Staff are Unhappy.

- "Staff morale is at an all time low and its having knock on effect in how they deal with end user customers"
- "They have too much to do and no resources"
- "They are constrained by outdated processes and systems which don't match our employee expectations of what they should get from IT support"
- Staff skills are not improving and they are leaving to get better jobs

SDI Benchmarking Report

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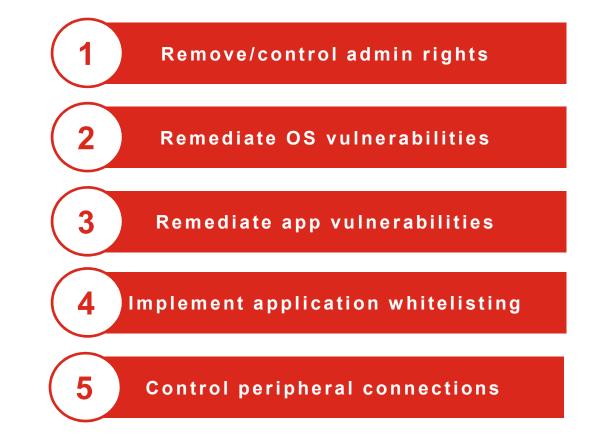
FBI: 9 steps to protect against RANSOMWARE attacks

- **1** Patch the critical operating systems and applications
- 2 Ensure that antivirus software is up-to-date and that regular scans are scheduled
- 3 Manage the use of privileged accounts
- 4 Implement access control that focuses on the data
- 5 Define, implement, and enforce software rules
- 6 Disable macros from Microsoft Office files
- 7 Implement applications whitelisting
- 8 Restrict users to virtualized or containerized environments
- 9 Back up critical files frequently



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Top 5 things you can do to stay secure



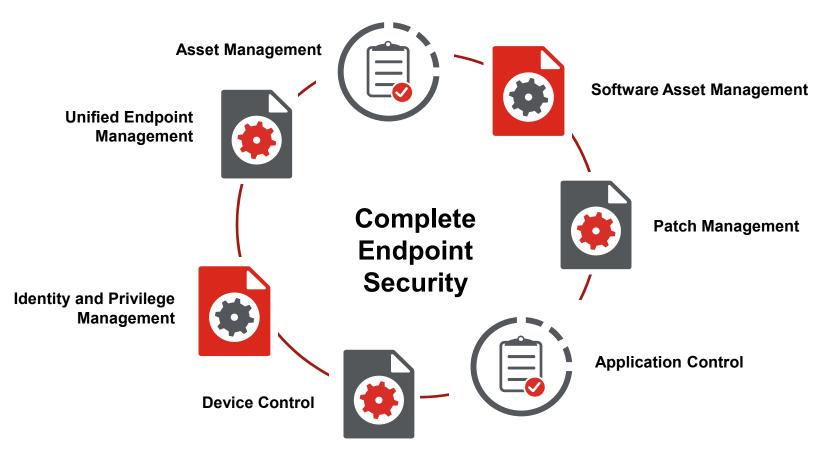
Security and automation – stay secure inside your organization

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Endpoint Security according IVANTI



Why Patch Management



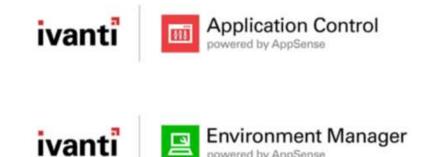
of breaches are made through Operating Systems

Patch Management

Ivanti has about 60% of the global patching market

- 1. Ivanti Patch for Endpoints Manager (Clients, Servers)
- 2. Ivanti Security Controls (Clients, Servers)
- 3. Ivanti Patch for Linux, UNIX, Mac
- 4. Ivanti Patch for SCCM

Application Control



ivanti

powered by AppSense

powered by AppSense

Performance Manager

- Prevent Malware & Ransomware
- Remove admin rights from users
- Elevate or restrict privileges
- Enforce licensing / ensure compliance ٠
- Replace legacy logon scripts & GPOs
- Speed up logon times ٠
- Eliminate profile corruption
- Simplify Windows migrations ٠
- Consistent desktop on multi-platforms ٠
- Improve user experience ٠
- Patented CPU management
- Physical memory management •
- Dramatically increase server density ٠
- Consistent quality of service ٠

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Device Control



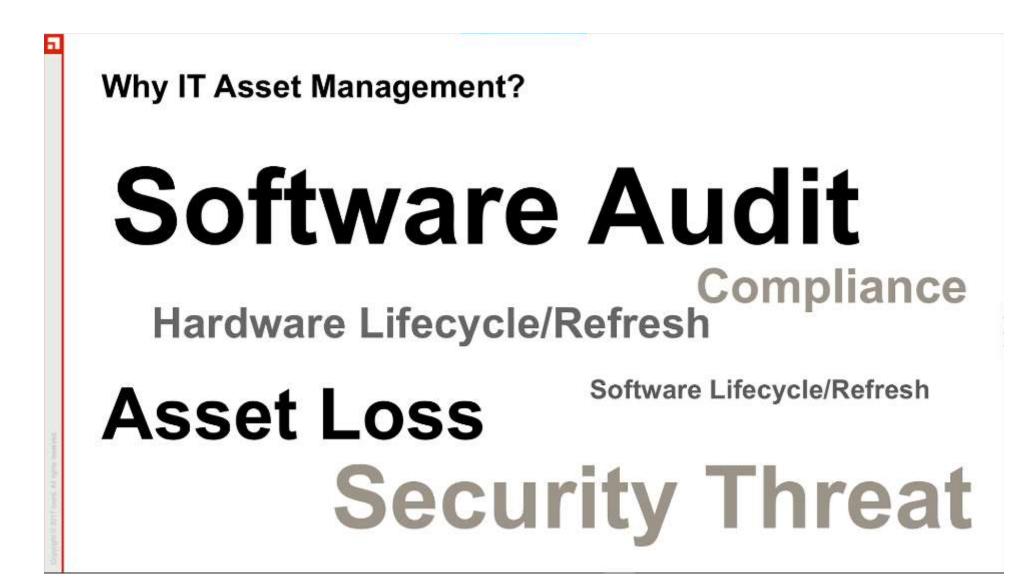
1. Discover all removable devices that are currently connected or have ever been connected to your endpoints.

2. Assess all "plug and play" devices by class, group, model, and/or specific ID and define policy through a whitelist approach.

3. Implement file copy limitations, file type filtering, and forced encryption policies for data moved onto removable devices.

4. Monitor all policy changes, administrator activities, and file transfers to ensure continuous policy enforcement.

5. Report on device and data usage to document compliance with corporate and/or regulatory policies.



License Optimizer (SAM)

Supported Vendors



Jata Summ	nary Vendo	r Overview							Advanced view 🤇 🔵 I
b Vendors									
Showing: V	endors								hide reconciliation ty
Reconciliation (Full)						Reconciliation type			
Reconciliation 02 F	February 2017			Î	•	Full	Partia	il 🗍	Modelled
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		02 February 20	17	Adobe System	-	A REAL PROPERTY AND A REAL		By surplus	
type to filter ven			17 85.18%	Adobe System Compliance	-	compliance			
type to filter verv Microsoft	dors	IBM			ns Inc	compliance Oracle Corpor	ration	Symantec Co	orporation
type to filter verv Microsoft Compliance	dors 77.19%	IBM Compliance	85.18%	Compliance	ns Inc 15.98%	compliance Oracle Corpor Compliance	ration 73.66%	Symantec Co Compliance	prporation 79.78%
type to filter very Microsoft Compliance No. of Programs	dors 77.19% 142,489	IBM Compliance No. of Programs	85.18% 351,144	Compliance No. of Programs	ns Inc 15.98% 6,546	compliance Oracle Corpor Compliance No. of Programs	ration 73.66% 19,414	Symantec Co Compliance No. of Programs	0rporation 79.78% 18,268
type to filter very Microsoft Compliance No, of Programs Licenses	dors 77.19% 142,489 193,179	IBM Compliance No. of Programs Licenses	85.18% 354,144 434,820	Compliance No. of Programs Licenses	ns Inc 15.98% 6,546 1,982	compliance Oracle Corpor Compliance No. of Programs Licenses	ration 73.66% 19,414 46,986	Symantec Co Compliance No. of Programs Licenses	0rporation 79.78% 18,268 38,467

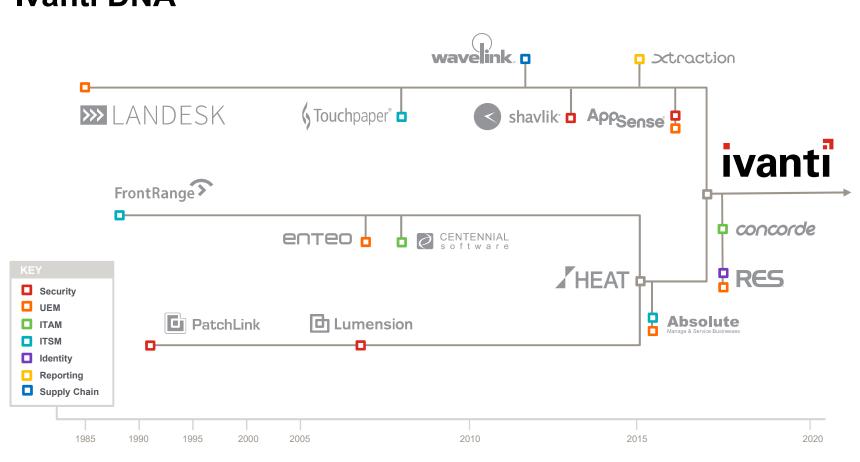


Our goal

Enable users to be their most productive, and in the same time helping IT depts keeping full control.

ivanti

- Established in 1985, owned by *Intel* by 12 years Actual owner is Clearlake Capital Group HQ in Salt Lake City, UT. USA **1900+ employees in 36 countries** 27 500+ customers, 47 M+ endpoints 1500+ partners 10 acquisitions from 2012 (the last is RES)
 - EMEA Support Center in Warszawa 150 employees



Ivanti DNA

Gartner - Magic Quadrant - IT Service Support Management Tools

ITSM: Moving in the Right Direction



2018 Magic Quadrant

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Info-Tech Research Group – ITSM Report



PinkVERIFY ITIL Certification

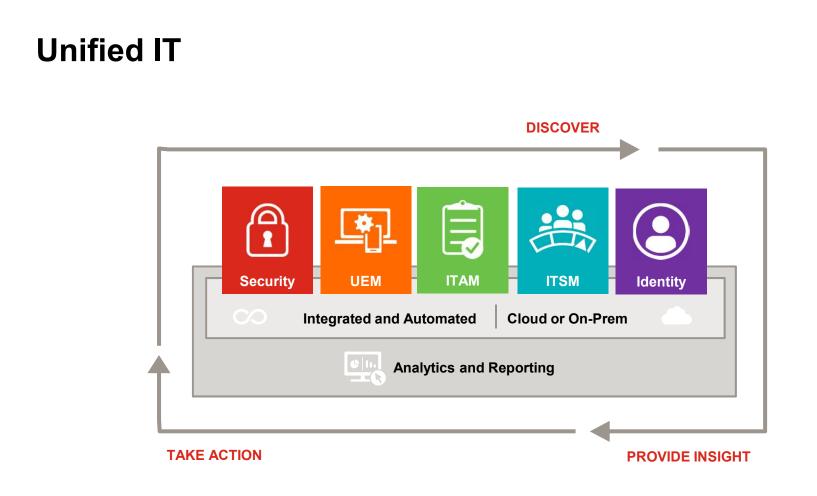
No need to reinvent the ITSM wheel



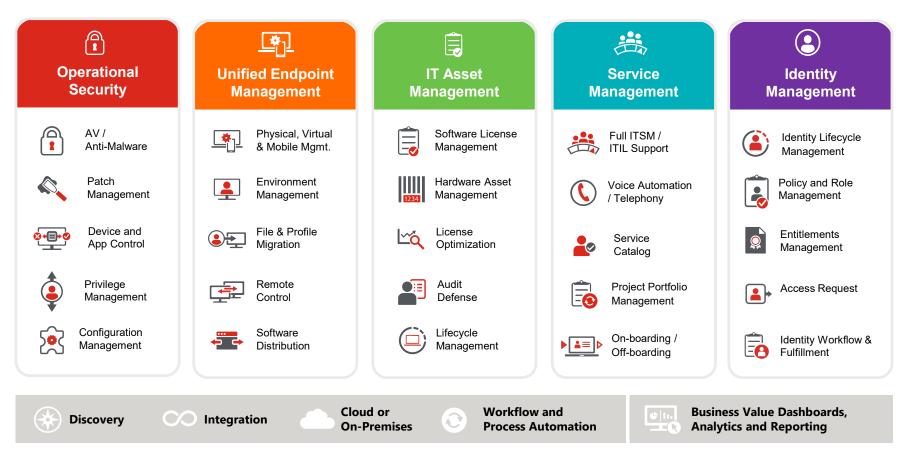


- ITIL Incident Management (IM)
- ITIL Service Catalog (SCM)
- ITIL Problem Management (PM)
- ITIL Service Portfolio Management (SPM)
- ITIL Change Management (CHG)
- ITIL Knowledge Management (KM)
- ITIL Request Fulfillment (RF)
- ITIL Availability Management (AVM)
- ITIL Release and Deployment Management (REL)
- ITIL Event Management (EV)
- ITIL Service Asset and Configuration Management (SACM)
- ITIL Financial Management (FM)
- ITIL Service Level Management (SLM)





Unified IT - Ivanti Portfolio



Do you have any questions?



Thank you!

Find out more: WWW: www.ivanti.com Forums: http://community.ivanti.com Twitter: #goivanti

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Thank you for your attention