



COOL VENDOR 2020

SIMPLIFIED SECURITY WITH UNPARALLELED OPERATIONAL TRANSPARENCY

March 2022





AGENDA

- Runecast History
- Managing Infrastructure, Security & Compliance is Complex
- Problems for IT Operations & Security Teams
- Regulatory Compliance
- Runecast Future-Proofs your Organization
- Quick Time to Value
- Engagement Process
- Customer Success Stories



RUNECAST HISTORY



FOUNDERS

"We used to be Admins, and we wasted a lot of time firefighting. After years of that, we did an analysis and realized that over 90% of the root causes were already documented somewhere online."



Stanimir Markov

CEO

VCDX #74 IBM Redbook author VCI Mentor Design and architecture



Aylin Sali

CTO

VMware VCAP DCA & DCD Six Sigma ELK stack expert ITIL Certified



Constantin Ivanov

Head of R&D

VMware VCAP DCA & DCD Microsoft Certified Systems Engineer



Ched Smokovich

VP of Sales & Marketing

Microsoft Certified IT Professional Business Development ITIL Certified



lonut Radu

Data Scientist

VMware VCAP Microsoft specialist MCTS Hyper-V



RUNECAST v3

Runecast Analyzer 3.0 launched with ESXi upgrade simulations against VMware's HCL. plus auto-remediation workflows. IDG Connect named Runecast one of "20 Red-Hot, Pre-IPO Companies to Watch in the 2019 B2B Tech" space. Runecast won a €1.9M EU Horizon 2020 grant to accelerate the development of its Runecast AI Knowledge Automation (RAIKA) technology.

RUNECAST v4

Runecast Analyzer 4.0 launched support for AWS cloud. As well, Runecast earned great recognition with a "VMworld Finalist Award" from TechTarget and additional finalist rankings for Computing magazine Product Awards (Best Technology Virtualisation Product and Technology Innovator of the Year), a Computing magazine Security Excellence Award (Security Automation), and an SDC Award (Digital Transformation Company of the Year).

Releases

Runecast V4.7

Runecast 4.7 launched to give customers the Cyber Essentials security standard and a ServiceNow Plugin.

Runecast V5

2021

Runecast 5.0 introduced coverage for Microsoft Azure!

Runecast V5.1

Runecast Analyzer 5.1 rolled out Configuration Vault & Remediation features and Best Practice analysis for vSphere on Nutanix.

Runecast V6

Runecast 6.0 revealed OS-level support for Windows and Linux.

Excellence

Additionally, Runecast earned multiple 2021 'FINALIST' awards, including a UK IT Industry Award for Security Innovation of the Year and several via Computing: Security Excellence Award for Risk Management; Cloud Excellence Award for Cloud Security Product of the Year (SMEs); Digital Technology Leaders Award for **Development Team of the Year**; and AI & Machine Learning Award for Best Emerging Technology in AI.

EDITOR'S CHOICE AWARD

2014

THE START OF RUNECAST

A group of ex-IBM virtualization experts

had a vision to provide real-time

automated insights for mission-critical IT

environments – using **human-readable**

'sources of truth', using Natural Language

Processing (NLP) and Artificial

Intelligence (AI) to create machine-

readable rules from it, and building it all

into Runecast Analyzer.

Runecast Analyzer 1.0 was rolled out at VMworld San Francisco. Runecast won an Editor's Choice Award from Virtualization Review.



2015

RUNECAST v2

STIG checks.

2016

RUNECAST v1.5

Highly scalable Runecast Analyzer 1.5 was

released, supporting multiple vCenters; a

Security Compliance focus was added to

Runecast Analyzer with automated DISA

TECH TRAILBLAZER

Runecast won a Tech Trailblazer

Award and was a Finalist for a CRN

Tech Innovators Award.

Runecast Analyzer 2.0 launched with a new dashboard and features including historical trending analysis and automated PCI DSS and HIPAA security checks - now also integrated with vSAN. NSX, and Horizon.



F	Runecast obtained a US patent and was named an EIT Digital Ch "sophisticated, hard-to-reproduce digital technologies that fuel digital to	
ł	AWARDS & MORE	
	Awards and Acknowledgments • Runecast was named a Gartner Cool Vendor • Won Computing's SME awards for Best Place to Work in Digital and Clou • Runecast also won several 'FINALIST' awards, including: • Computing's 2020 Leaders Award for Security Project of the Year • Rising Star Award including Company of the Year • SDC Awards' Data Security/Compliance Project of the Year	ud Security Product of the Year
	ENTERPRISE	
2020	Runecast Analyzer version 4 brought many new capabilities, including: Security audits for CIS Benchmarks SAP HANA Insights NIST audits for VMware	This was followed by: • A new Enterprise Console • vSphere 7 support • AWS Audits for NIST and GD • The launch of Kubernetes co
		 Custom Profiles

US PATENT

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2019

- DPR
- coverage

Gartner

COOL

2020

VENDOR

- Custom Profiles 0
- 0

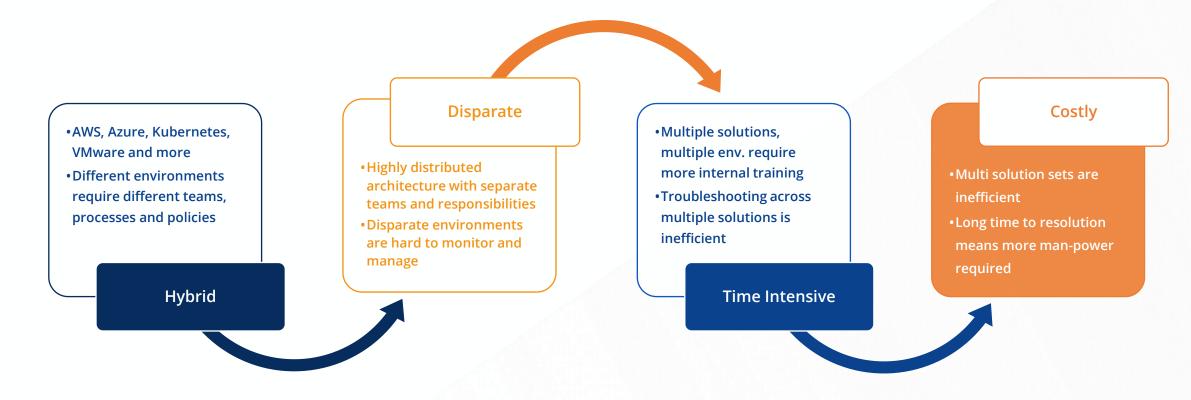
Coverage for NSX-T



MANAGING INFRASTRUCTURE, SECURITY & COMPLIANCE IS COMPLEX

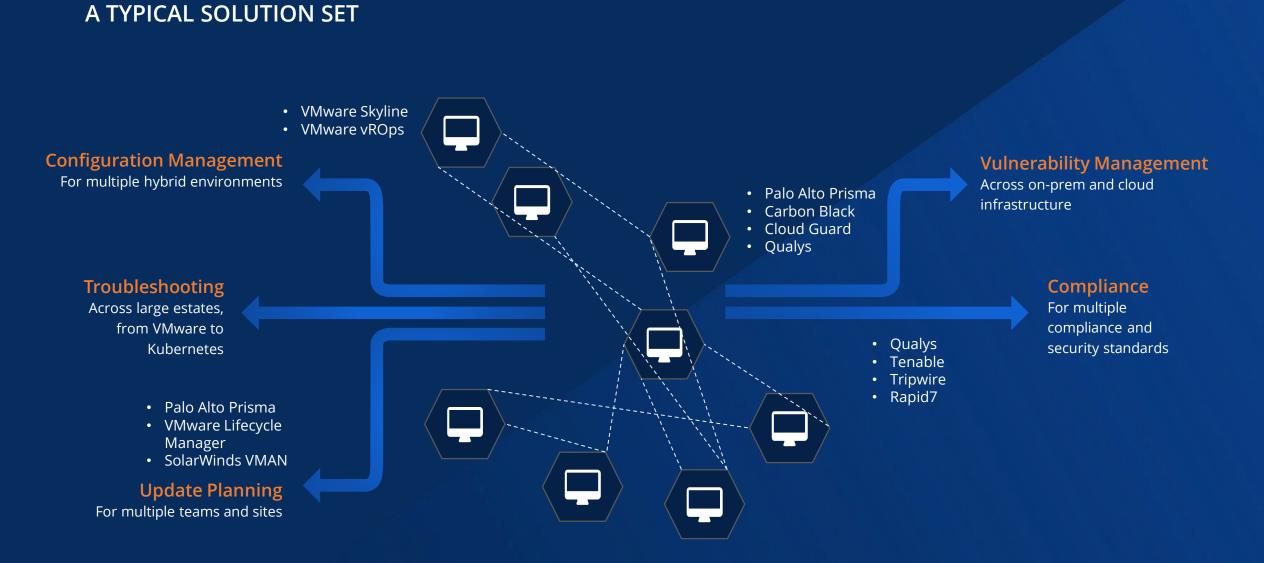


MANAGING INFRASTRUCTURE, SECURITY & COMPLIANCE IS COMPLEX



Modern enterprise is fueled by many different systems. Whether these are cloud, on-prem or hybrid, each requiring monitoring, troubleshooting and security. Managing the complexity of these systems, more often than not, is in the hands of individual teams, using several solutions which in turn leads to disconnect in policies, processes and potentially costly ill-preparedness.







THE POWER OF RUNECAST

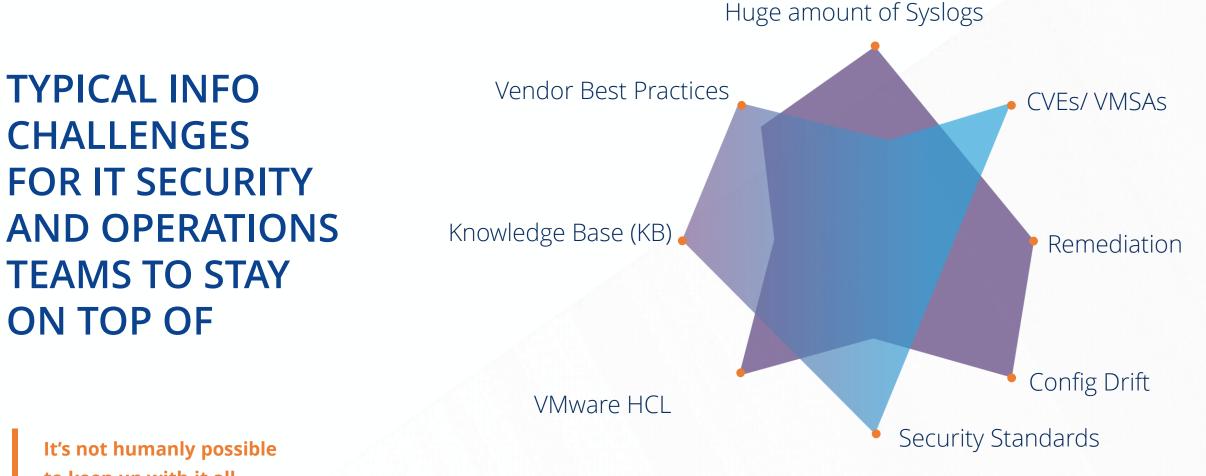
SIMPLIFIED SECURITY WITH UNPARALLELED OPERATIONAL TRANSPARENCY





PROBLEMS FOR IT OPERATIONS & SECURITY TEAMS





It's not humanly possible to keep up with it all



PROBLEMS IN IT OPERATIONS

Over **90% of issues** are already documented, but documentation is used only reactively.

It is no longer humanly possible to monitor known knowledge sources (knowledge bases, best practices, forums, blog articles, social media).

Automation in this area is essential for a proactive approach.

"How are you helping the enterprise realize more value while assessing and managing risk, security and even safety? The best way to bring value to your organization today is to leverage automation."



Break/Fix reactive troubleshooting cycle



Υ Βε

Best Practices **not used**



Increasing complexity and decreasing transparency of IT systems; declining efficiency of IT teams



Skills gap and **costly mistakes** in public/hybrid cloud setups

⁻Katell Thielemann, VP Analyst, Gartner Security and Risk Management Summit 2019



BEFORE REMEDIATION, THE ROOT CAUSE MUST FIRST BE DISCOVERED

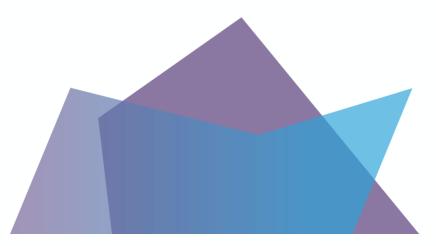
Remediation usually takes **hours of searching**, reading and filtering through documentation in:

- VMware Knowledge Base
- Best Practices
- Security Hardening Guides
- Forums etc.

This great wealth of knowledge is only being leveraged reactively, after issues happen.

Now you can apply these vast resources *proactively*

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90% OF ISSUES CAN BE PREVENTED





REGULATORY COMPLIANCE

Regulatory compliance requires that organizations adhere to a set of laws, regulations and/or policies agreed upon by industries and/or governments as an essential level of security.



WHAT HAPPENS WHEN YOU FAIL A COMPLIANCE AUDIT?

Loss of trust/reputation

• Failing a compliance audit (or worse, suffering a breach) can cause long-term damage to the organization, as customers/partners can no longer trust that you are securely handling their data. Such an event can take years from which to recover financially.

Loss of money

• Fines

• If there is a chance that any fines might be covered by banks or insurance companies, e.g. in the event of credit card fraud, won't they somehow try to get it back from you?

• Lawsuits

- Many big-name players have had to pay out MILLIONS in lawsuits after a breach with stolen data exposed. Can your organization afford it?
- Internal Costs
- Failure to pass an audit means reactively spending time and money to investigate why and where those vulnerabilities occurred (costing productivity in parallel). Which teams will suffer most from the additional costs?

Going under a microscope

• If a government agency performing an audit finds the company out of compliance, it will likely put the organization solidly on their radar from that point forward.



HOW WE CAN ENSURE COMPLIANCE

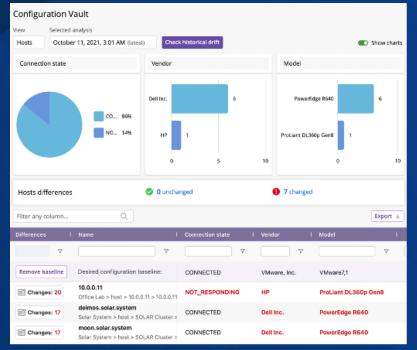
Best Practices Compliance

Bes	Best Practices Export									
Severity Layer Affects			Products Result		Customizable			Search 206 issues		Q
	Severity	Tide	issue ID	Layer	Affects	Products	Passing	Failing	Unknown	Result @
>	Critical	Ensure Public Network Access Is	AZURE- GBP-3497	Storage	Security	SQL Server	1	15		Failed
>	Critical	Ensure EC2 Instance Metadata Service	AWS- GBP-3754	Compute	Security	EC2	0	15		Failed
>	• Critical	Configure NTP time synchronization	VMW- GBP-874	Compute	Security	vSphere	9	4	國7	Failed
>	Critical	Ensure no security groups allow	AW5- GBP-2021	Compute	Security	EC2	54	4		Failed
>	• Critical	Ensure there are no Public Accessible	AWS- GBP-3326	Storage	Security	RDS	•	2		Failed
>	Critical	Ensure there are no internet facing	AW5- GBP-3333	Management	Security	EC2	0	2		Failed
>	Critical	Ensure Application Load Balancer has	AWS- GBP-3788	Compute	Security	EC2	0	2		Failed
>	• Critical	Validate that CloudFront	AWS- GBP-3790	Network	Security	CloudFront	0	2		Failed
>	Critical	Use supported NSX- T Controller cluste	VMW- GBP-3148	Management	Availability	NSX-T	0	1		Failed
>	• Critical	Ensure latest TLS Version is used on	AZURE- GBP-3491	Storage	Security	MySQL Server	0	1		Failed
sh	ow 25	entries		< P	rev 1 2	3 4		9 Next	> 206 be	est practices

Security Compliance

Security Compliance PCI DSS											
Mi	lestone ~ Applies to	> Products	Results ~	Custo	omizable ~				Search		
	Title	0	Issue ID	0	Milestone 🔺	Applies to	0 Products	0 Objects	0 Control ID		
Ξ	The system must configu access to services runnin	re the firewall to restrict g on the host (1.1.4)	VMW-PCIDSS	-382	2	Compute	vSphere	4	1.1.4		
	Details Findings Note							ø ig	nore 🗋 Cop		
	issue ID: Knowledge profile:	VMW-PCIDSS-382 12 PCI DSS https://www.pcisecuritysl	indards.	Techr Descr	nical iption	ESXI hosts have a firewall to control : This requirement is addressed throu restricted only to specifically allowed		ised through ensuing allowed traffic t	igh ensuring that access t		
	Reference: org/documents/PC_DS_v df Milestone: 2 Applies to: Compute				resistance only dogstance and a non-set of the total of resistance of the set						
ŧ	Configure the ESXI host f to services running on th		VMW-PCIDSS	-1626	2	Compute	vSphere	4	1.2.1		
Ŧ	Ensure no ACL allows inc ALL sources to ALL ports		AWS-PCIDSS	2050	2	Network	VPC	23	1.2.1		
÷	Ensure that the Forged T reject: reject-forged-tran		VMW-PCIDSS	-594	2	Network	vSphere	33	1.3.3		
ŧ	Ensure that the Forged T reject: reject-forged-tran		VMW-PCIDSS	-500	2	Network	vSphere	1	1.3.3		
Ŧ	Ensure that the MAC Add to reject: reject-mac-char		VMW-PCIDS5	-595	2	Network	vSphere	33	1.3.3		

Hardware Compliance





CHOOSE FROM A MULTITUDE OF COMPLIANCE OPTIONS (IN ADDITION TO CUSTOM PROFILES)





Bundesamt für Sicherheit in der Informationstechnik







RUNECAST FUTURE-PROOFS YOUR ORGANIZATION

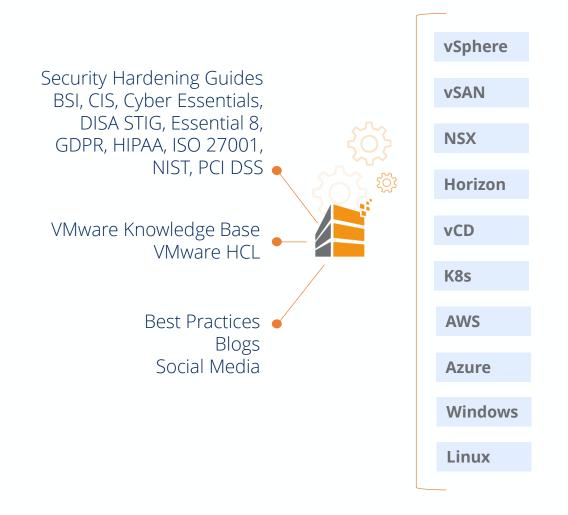


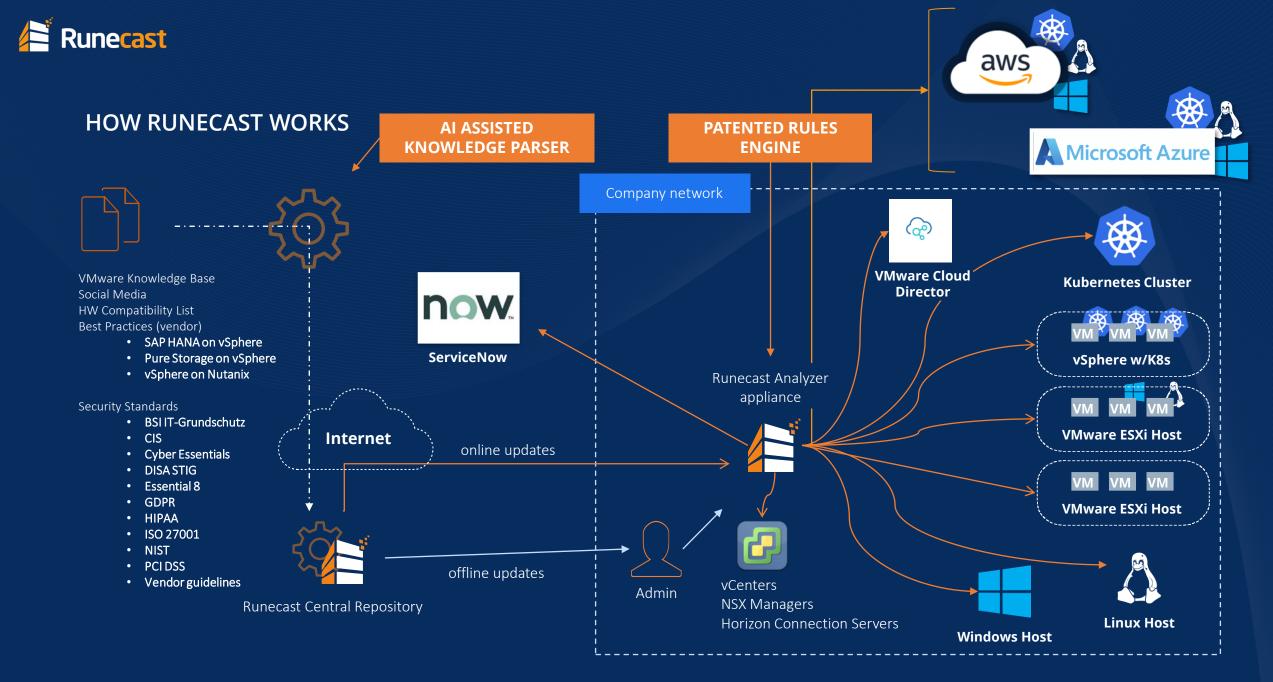
RUNECAST OVERVIEW

Proactive, patented platform for vulnerability and configuration drift management, security compliance, best practice alignment and remediation in the areas of:

- IT Operations Management (ITOM)
- Cloud Security Posture Management (CSPM)
- Kubernetes Security Posture Management (KSPM)

Using Runecast Al Knowledge Automation (RAIKA) with a patented rules engine, it analyzes the IT infrastructure – including the OS level – and exposes potential issues before they can cause major outages or lead to security breaches.

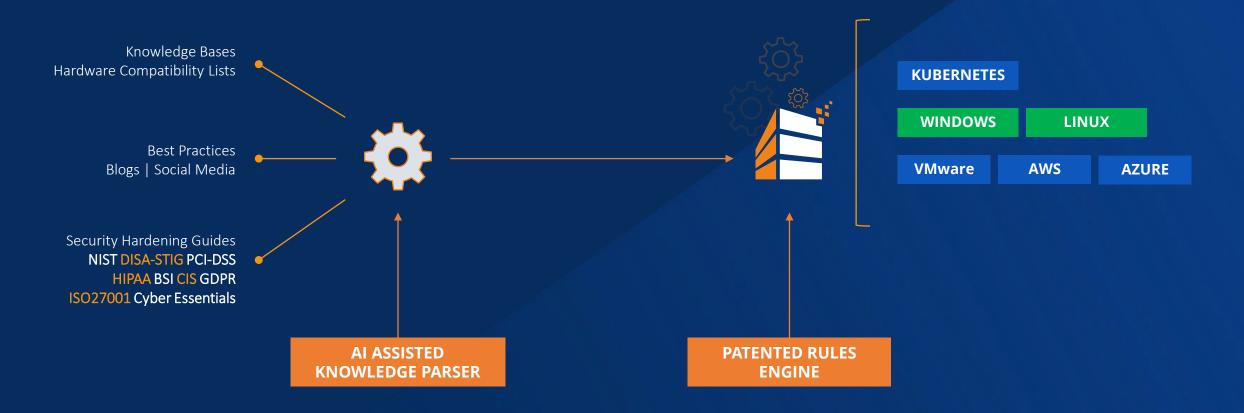






HOW RUNECAST WORKS (SIMPLIFIED)

Proactive Hybrid Cloud management – uses Al assisted knowledge parsing and patented rules engine to expose risk before they cause outages or security issues.





SCOPE OF COVERAGE





NEW WINDOWS & LINUX COVERAGE (DIFFERENTIATORS)

Leverages an agent that is secure, lightweight and easy to deploy and maintain

Integrates with our patented rules engine

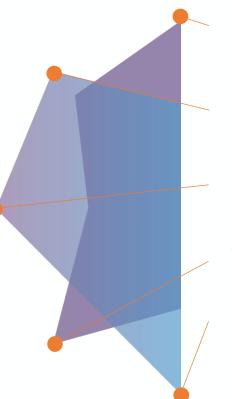
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Displays in the same Runecast UI for single point of control

Covers vulnerability assessment, security compliance assessment, configuration drift management

Provides fully offline capabilities scan





Proactive ITOM, CSPM, KSPM aligned to best practices.

Configuration Analysis to get ahead of drift.

Security Compliance Checks to keep you audit-ready.

Upgrade Simulations against VMware HCL to see future impact.

Log Analysis in real-time against KBs to find problematic logs.

CORE CAPABILITIES

Runecast proactively identifies the **known causes** of issues before they occur, does all the root cause analysis work for you and provides the solution to remediate.

All of that with REMEDIATION for major time savings.

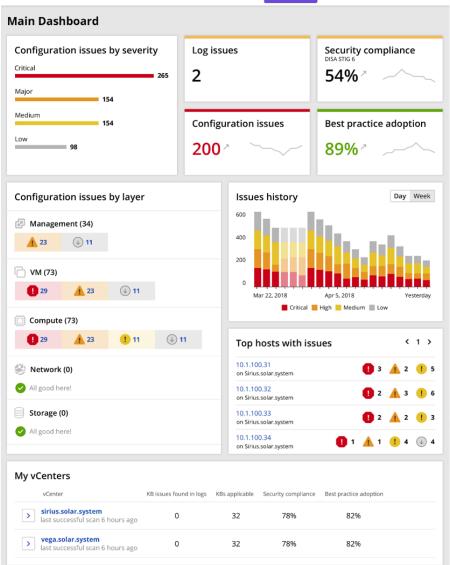


QUICK TIME TO VALUE





- 5-minute deployment, near real-time results, intuitive UI
- Eliminates complexity and the need for strong technical expertise and manual efforts
- Proactive detection of all known issues and recommendations
- Automated security compliance audits (over 10 standards)
- Validates and simulates hardware against current HCL and upgrades
- Secure architecture, highly scalable with a single virtual appliance. All data stays under your control





CUSTOMERS REPORT IMMEDIATE ROI

 Major time savings

 Less time troubleshooting. Faster time to resolution.

 Reduced outages

 Discover and remediate hidden issues before they cause outages.

 Improved security

 Continuous security compliance, security KBs, secure architecture.

Minimized risk with continuous compliance Your environment now follows industry best practices and is optimally configured.



]0[

Reduce costs

Prevent outages, save time and avoid audit penalties.



CISOS, CIOS, SECURITY AND OPS TEAMS THAT BENEFIT FROM RUNECAST INTELLIGENCE

OUR CUSTOMERS REPORT:

- Between 75% to 90% time saved on troubleshooting and upgrade planning
- Up to 100% uptime
- Increased operational efficiency and observability
- 100% of required security audits passed successfully

Source: Runecast Customer Success Stories





de volksbank







A FEW KEY BENEFITS

Deploy and configure in the time it takes to get a cup of coffee

Deploys as an OVA, Helm chart or natively from cloud marketplaces

Single platform with insights for AWS, Azure, Kubernetes, VMware, Windows, Linux

> vSphere, vSAN, NSX, Horizon & O VMware Cloud Director

Certified for VMware Cloud on AWS

Never uploads data from your environment

Extremely fast and Easy-to-use

RESTful API, vSphere Client plugin, ServiceNow integration

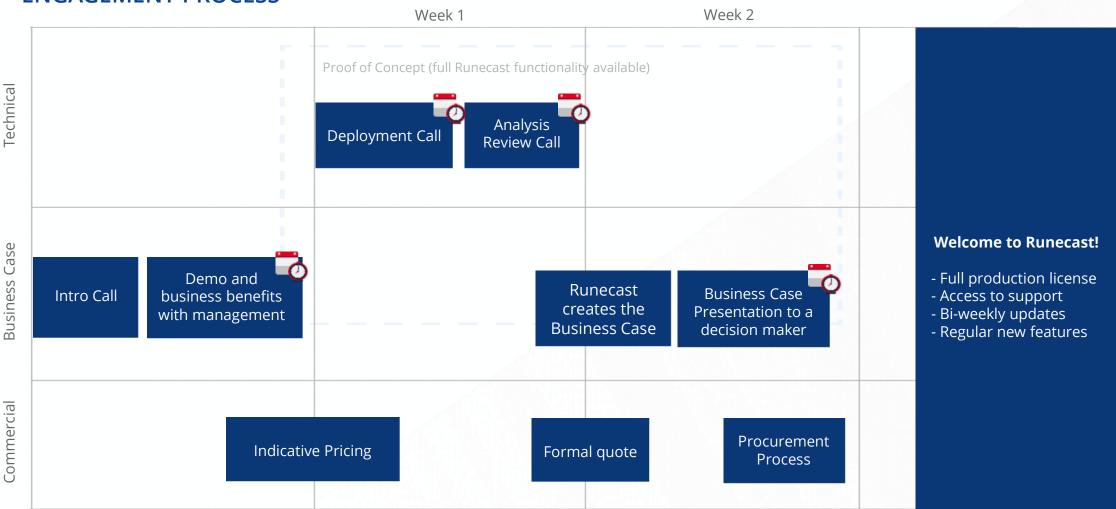
Remediation through Power CLI and Ansible scripts

Support extends also to the OS level (Windows & Linux)



ENGAGEMENT PROCESS





ENGAGEMENT PROCESS



CUSTOMER SUCCESS STORIES



NOTINO Retail/eCommerce | Global

HIGHLIGHTS

- VMware related incidents reduced by 80% (from 5 a month to 1 a month)
- Identified and prevented 10 VMware issues in the first two weeks
- Full FTE was freed up to focus on business critical issues rather than issue troubleshooting
- Minimum savings: 78,000 EUR per year (VMware Support) + FTE
- Less reliant on external support

NOTINO TODAY IS YOURS

"Runecast saves us from issues before they happen, the value of which cannot be overstated. In addition, Runecast's real-time data saves us weeks and months that were previously spent on dealing with VMware support."

Michal Kopecny IT Administrator



NEAR EAST BANK Banking/Financial |North Cyprus

HIGHLIGHTS

- Runecast revealed +30 issues (some Critical or Major) in a single week
- Team is now able to resolve issues proactively
- Able to more efficiently utilize current staff
- 90% time savings on reactive troubleshooting
- Customizable reporting options demonstrate compliance
- Time freed up to deliver more value from IT ops

"Runecast Analyzer has helped us to mitigate risk by improving our security and ensuring we are compliant. We can now also prove our compliance when necessary."

Renan Avni IT Group Manager



DHU Health Care Healthcare (NHS service provider) | UK

HIGHLIGHTS

- About 10 minutes to deploy & get a first scan
- Revealed pre-Runecast approach as reactive at best
- Critical issues now visible, able to be worked on proactively
- Know exactly which issues to prioritize and work on first
- Stability of mission-critical urgent-healthcare systems (i.e. NHS 111 emergency call service)
- Easy to justify the investment



"We didn't really know that we had such a problem of addressing issues only reactively until we saw the contrast[...] With Runecast, we can now look at one screen and have the visibility and transparency to know what we are working on and why."

Nathanael Pearson Head of IT & Telecoms



FLEXdata Solutions Pty Ltd IT Services | Australia

HIGHLIGHTS

- Minimum of 60-70% time savings
- Expected 90% time savings in upgrade planning
- Deployment and first analysis report took only 15 minutes
- Prevented an ESXi host crash and postincident review (PIR)
- Provides a proactive security compliance posture
- Extends value back to clients



"Runecast Analyzer was a no-brainer, we instantly saw that it would save us a whole lot of time, and for us time is money."

Luke Mulcahy Solution Architect / Director



German Aerospace Center (DLR) Aerospace | Germany

HIGHLIGHTS

- Early, proactive information about potential bugs and security risks that could lead to severe or critical operational problems
- More leverage in keeping vSphere environment up to date
- Advance warning of potential problems
- Increased stability and performance
- Helping them to stabilize greenhouse mission to grow food in space



"We use Runecast Analyzer mostly as a solution to warn us of potential problems with new versions or updates before they manifest as real issues. Runecast Analyzer increases the stability and performance of our environment."

Michael Szczuka Senior Engineer



University of St Andrews Education | Scotland

HIGHLIGHTS

- 80% reduction in monthly incidents and issues
- Identified/Corrected misconfigured NTP & syslog settings
- Visibility over configuration & adherence to best practices
- 75-85% troubleshooting time savings
- Simple, functional tool that requires very little configuration
- Runecast team "impressively responsive" to feedback



"Runecast was up and running within a couple of hours. It is a very simple, yet powerful, costeffective solution."

Jason Cormie Technical Architect



Visit <u>runecast.com</u> to request a trial and/or PoC for your environment

Or reach out to us at roi@runecast.com