

### Last line of defense

**Data Protection Redefined** 

Ernst Christian Dvorak Arnold Schwingenschlögl

### We're the world's leader in data protection.

## Over 100K of the world's

depend on Commvault to protect more than 3.8 exabytes of cloud data.















HarperCollinsPublishers

We help them:

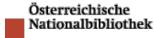


Continuously run their businesses Secure, defend and recover data

Seize new business opportunities





















leading organizations



# Data is everywhere

of companies are multicloud<sup>1</sup>

of enterprise-critical data will be outside a company's cloud<sup>2</sup>

of companies lack complete visibility into where data reside<sup>3</sup>

(And harder to protect than ever before)



# Skyrocketing cybercrime is fueling risk.



# Commvault is the only provider with products to protect the full data protection lifecycle.

Early Warning Threat Scanning Risk Analysis

Backup & Recovery eDiscovery & Compliance Immutable Storage

#### COMMVAULT'S UNIFIED PLATFORM

### Secure

Only Commvault offers ubiquitous recovery across all hybrid workloads – the result is the highest level of business continuity across enterprise data

### **Defend**

Only Commvault provides real-time visibility into cyber and other risks to your data – across production and backup environments – to minimize data loss

### Recover

Only Commvault offers the unmatched choice of SaaS, software, or appliance delivery, with flexible storage options to optimize cost and performance



### Metallic® DMaaS

Future-proof data management – as a simple, cloud-native solution.

### SaaS Applications

Unlimited storage included.



#### Metallic® Office 365 Backup†

For Exchange, Teams, SharePoint, OneDrive, Project



#### Metallic® Backup for Microsoft Dynamics 365

For CRM applications



#### Metallic® Salesforce Backup

For production and sandbox environments

### Hybrid Cloud Data Protection

Metallic® Recovery Reserve™ available as a storage target.



#### Metallic® VM & Kubernetes Backup

For VMware, Hyper-V, VMC, Azure VM, AVS, Oracle Container Engine for Kubernetes (OKE), Amazon EC2. OCI VM



#### Metallic® Database Backup

**Endpoints** 

included.

Unlimited storage

For Microsoft SQL Server, Azure SQL Server, Azure MySQL, Azure MariaDB, Azure PostgreSQL, Azure Cosmos DB, Oracle, Oracle RAC, Oracle Database Cloud Service (DBCS), Oracle ExaData Database Service on OCI / on premises, SAP HANA, Amazon RDS, Amazon DynamoDB, Amazon DocumentDB Amazon Redshift



#### Metallic® File & Object Backup

For Windows Server, Linux/UNIX, Azure Blob & Files, OCI Object Storage, Amazon S3



### Cloud Storage

Secure cloud storage.



#### Metallic<sup>®</sup> Recovery Reserve<sup>TM</sup>

For long and short-term retention





### Ransomware Detection

Integrated cyber deception.



#### Metallic<sup>®</sup> ThreatWise<sup>TM</sup>

For early warning into threats



#### Metallic® Endpoint Backup†

For laptops and desktops

#### **Active Directory**

FREE w/any paid Metallic subscription.



#### Metallic<sup>®</sup> Active Directory Backup

For Azure & Microsoft AD

<sup>†</sup>eDiscovery available



Metallic Government Cloud also available (FedRAMP High, hosted on Azure Government)

Industry-leading SaaS, from the minds of Commvault







### 75 % der Unternehmen, die mit Ransomware infiziert wurden, verwendeten eine aktuelle **Endpoint-protection**

#### Q1 2023: Cyber-Attacken in Österreich gleichbleibend

Laut Check Point verharrten die wöchentlichen Angriffe pro Organisation in Österreich mit 1044 im ersten Quartal 2023 gegenüber dem Q1 2022 auf Vorjahresniveau.



Check Point Research (CPR), die Forschungsabteilung von Check Point® Software Technologies Ltd. (NASDAQ: CHKP), einem weltweit führenden Anbieter von Cyber-Sicherheitslösungen, veröffentlicht ihre O1 2023 Cyberattacks Statistics.

#### Quelle: Check Point Software Technologies

Für Österreich melden die Sicherheitsforscher 1044 wöchentliche Angriffe pro Organisation, damit bleibt die Zahl im Vorjahresvergleich konstant. Für Deutschland meldet CPR 894 wöchentliche Angriffe pro Organisation, was einem Anstieg von zwei Prozent im Vorjahresvergleich entspricht. Die Schweiz erlebte dagegen einen deutlichen Anstieg von 18 Prozent auf 914 wöchentliche Angriffe pro Organisation.

Global stiegen die wöchentlichen Angriffe um sieben Prozent, wobei jede Organisation durchschnittlich 1248 Angriffe pro Woche erlebte. Der Sektor Bildung und Forschung war mit durchschnittlich 2507 Angriffen pro Organisation und Woche am stärksten betroffen, was einem Anstieg von 15 Prozent gegenüber dem ersten Quartal 2022 entspricht.

Die APAC-Region verzeichnete mit durchschnittlich 1835 Angriffen pro Organisation den höchsten Anstieg der wöchentlichen Angriffe im Vergleich zum Vorjahr, was einem Anstieg von 16 Prozent entspricht. Außerdem erlebte 1 von 31 Unternehmen weltweit jede Woche einen Ransomware-Angriff.

Q1 2023: Cyber-Attacken in Österreich gleichbleibend (itwelt.at)

### Cloud Nordic verliert fast alle Daten nach Angriff

Der dänische Cloud-Anbieter Cloud Nordic wurde von einer Ransomware-Attacke getroffen. Dabei gingen fast sämtliche Daten der Kunden verloren.















CSO | 24. AUGUST 2023 15:12 UHR



Der Cloud-Dienstleister Cloud Nordic wurde durch einen Ransomware-Angriff lahmgelegt.

Der Cloud-Dienstleister Cloud Nordic aus Dänemark wurde Opfer eines Ransomware-Angriffs. Die Täter haben dabei das Unternehmen selbst und die Server der Kunden komplett lahmgelegt. Eigenen Angaben zufolge hat der Anbieter dabei nicht nur Daten, sondern auch alle Systeme und Server verloren und konnte nicht mehr kommunizieren.

Ransomware-Attacke: Cloud Nordic verliert fast alle Daten nach Angriff - CSO (csoonline.com)

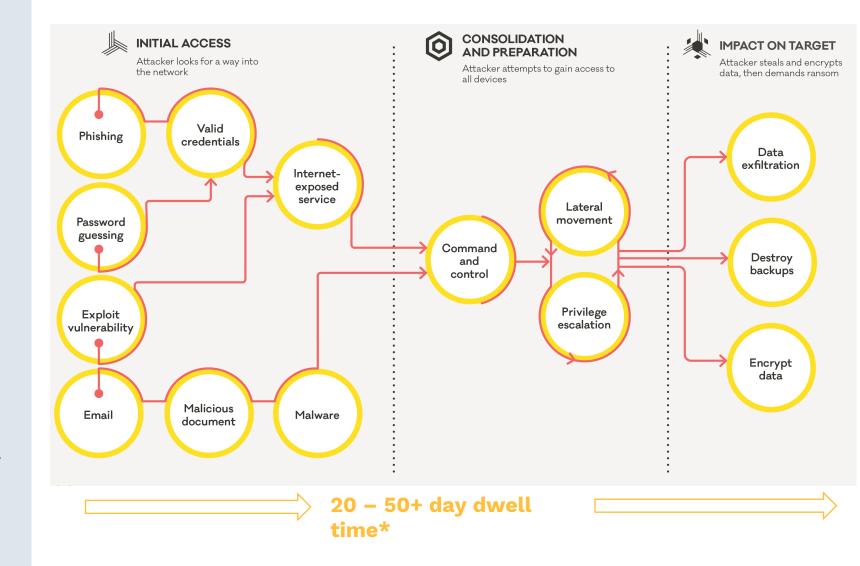


BWI



# Ransomware lifecycle

- Cyberthreats continuously infiltrate and spread
- 20 50 day dwell time\*
- Backups are continuous



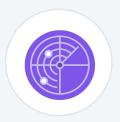
\*https://www.sophos.com/en-us/press-office/press-releases/2022/06/attacker-dwell-time-increased-by-36-percent-sophos-active-adversary-playbook-2022-reveals

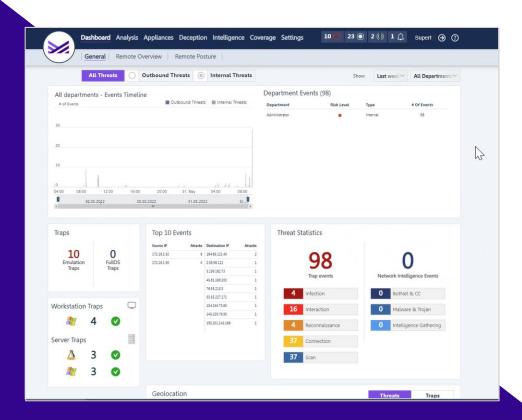




### Metallic® ThreatWise<sup>TM</sup>

### **Integrated Cyber Deception**





### **Early Warning Ransomware Detection**



**Intelligent decoys** that mimic and behave-like legitimate assets



**Precise alerts** to pinpoint threats without false-positives or alert-fatigue

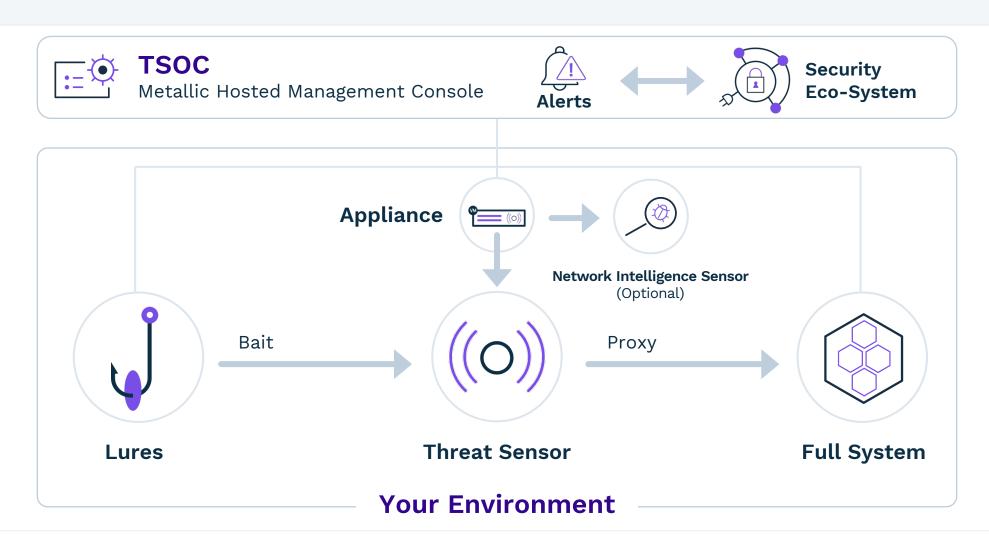


**Rapid scalability** to protect entire environments and applications in seconds



**Simple SaaS delivery** with flexible, lightweight architecture

### **High Level Architecture**





### **Security Eco-System**

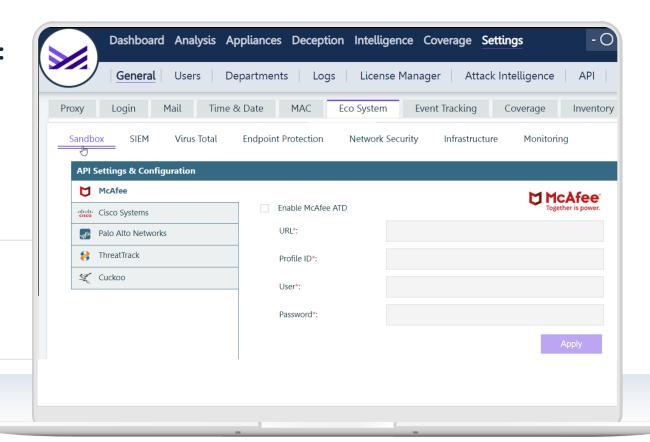
### Infrastructure Components



### The Eco-System allows easy integration with third-party security systems such as:

- SIEM (via SYSLOG), this is most common request for SOC integration
- Firewall
- NAC
- Virus Total
- Sandbox

Common Vendors such as McAfee, Cisco, PaloAlto, Forescout and ODBC are built-in the TSOC Further integration can be achieved via the API/SDK





### Thank You!



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### Metallic® ThreatWise<sup>TM</sup>

### Key Features & Benefits

Feature	Benefits
Imitate real assets with highly intelligent threat sensors	Hiding real assets in the crowd for risk mitigation
Real-time alerting	Ransomware risk mitigation before data impact
Divert bad actors into engaging false resources	Grow time to impact of bad actor
Agentless deployment	Suitable for any environment
Provide insights into active and latent threats	<ul> <li>Uncover vesting bad actors on the network</li> </ul>
High fidelity alerting	<ul> <li>Accurate alerts with close to 0 false-positives</li> </ul>
Mass deployment of Threat Sensors	Deploy and scale in seconds
Threat Sensors invisible for legit users	Seamless without business disruption
Integration with top security provider (SIEM, Sandbox, EDR, etc.)	<ul> <li>Accelerating time to remediate and IT collusion (IT&amp;ITSec Convergence)</li> </ul>
Lightweight architecture	Low resources footprint



# What is Metallic® ThreatWise<sup>TM</sup>?

**Early Warning Ransomware Detection** 



### **Dilute the Attack Surface**

Flood environments with flawless replicated assets, divert threats before they effect data



### **Expose Silent Threats**

Uncover attacks early with real-time high-fidelity alerts before they reach your data



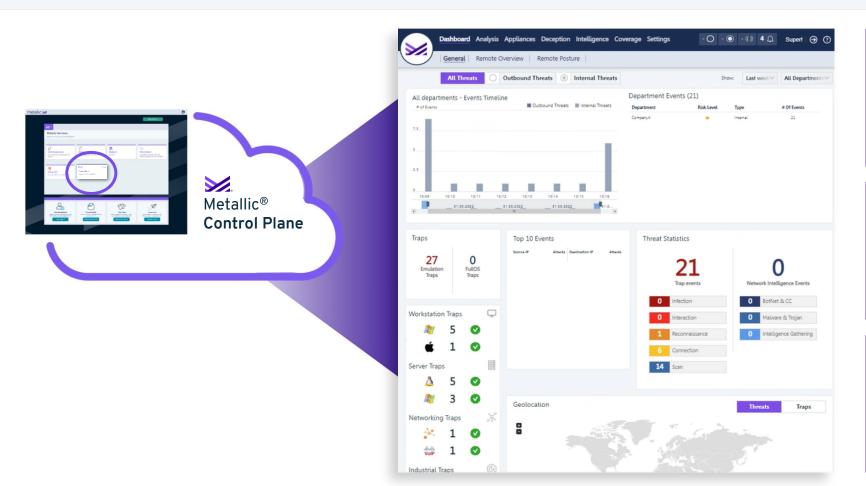
### **Accelerate Recovery**

Drive remediation efforts, limit exposure windows, and extract bad actors

### **TSOC**

### ThreatWise™ Security Operations Console





Manage ThreatWise™ appliances, deploy threat sensors and view events

Point of Integration to Security Eco-System such as SIEM, Firewall, NAC and Sandboxes

Accessed via Metallic Hub/Control Plane



### **Appliance**

Infrastructure Components

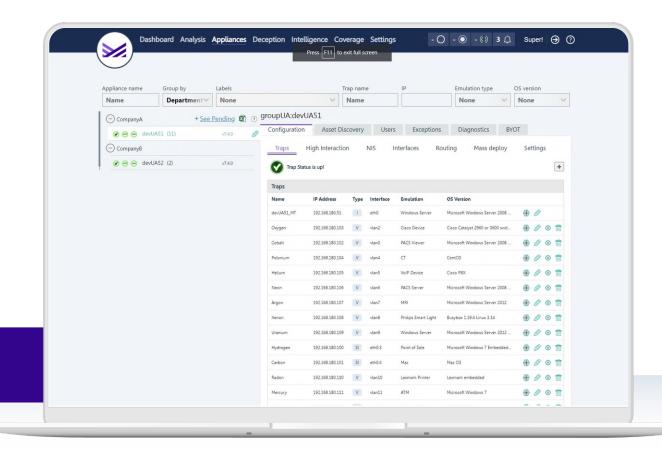


### A virtual machine deployed to a hypervisor provided by the customer

(VMware ESXi, Hyper-V, KVM, AWS AMI, Azure)

- Each Appliance supports 512 individual Threat Sensors
- Seamless deployment with Metallic® ThreatWise™ templates
- Security is enhanced by using outbound communication to the TSOC







### Lures

### Infrastructure Components



### Lures are agentless pieces of data

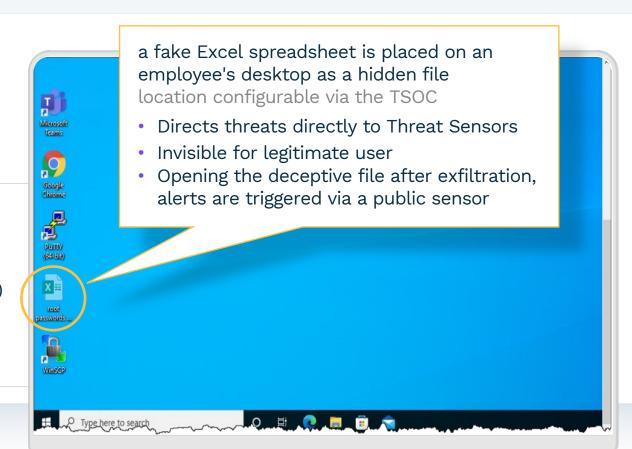
They lure attackers in and direct them to the Threat Sensors

Deployed on endpoints or strategic points

#### Lures include

- Cached credentials
- Deceptive files (Word or Excel files)
- Fake SMB drives
- Browsing history
- Entries to HOSTS file
- Stored sessions

   (e.g., RDP Shortcut,
   SSH, Putty and WinSCP)
- Active Directory





### **Technical Prerequisites**

Infrastructure Components

### **TSOC**

VMware ESXi, Hyper-V or KVM

- 16Gb RAM
- 500Gb Disk
- 1x NIC

For latest AWS AMI and Azure specifications refer to System Requirements Guide

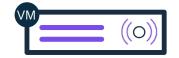


### **Appliance**

VMware ESXi v5.5 or later

- 4x vCPU
- 8Gb RAM
- 40Gb Disk
- 4x NIC

For latest AWS AMI and Azure specifications refer to System Requirements Guide



### **Full System**

Windows VM

4Gb RAM

#### Running any of the following:

- Windows 10
- Windows Server 2012, 2016, 2019





### Surface Area Coverage

Mitigating Cyber Risk

#### More Threat Sensors = Less Risk

#### Hide in a crowd

 Reduce Threat Event Frequency by reducing Contact Frequency w/ Metallic® ThreatWise™

### **Best Practices for optimal coverage**

Validate your deployment

View the effectiveness of your deception deployment

- √ 15-20% Surface Area Coverage of subnet
- ✓ Active Defence Score Card (mapping to TTPs of MITRE ATT&CK)

