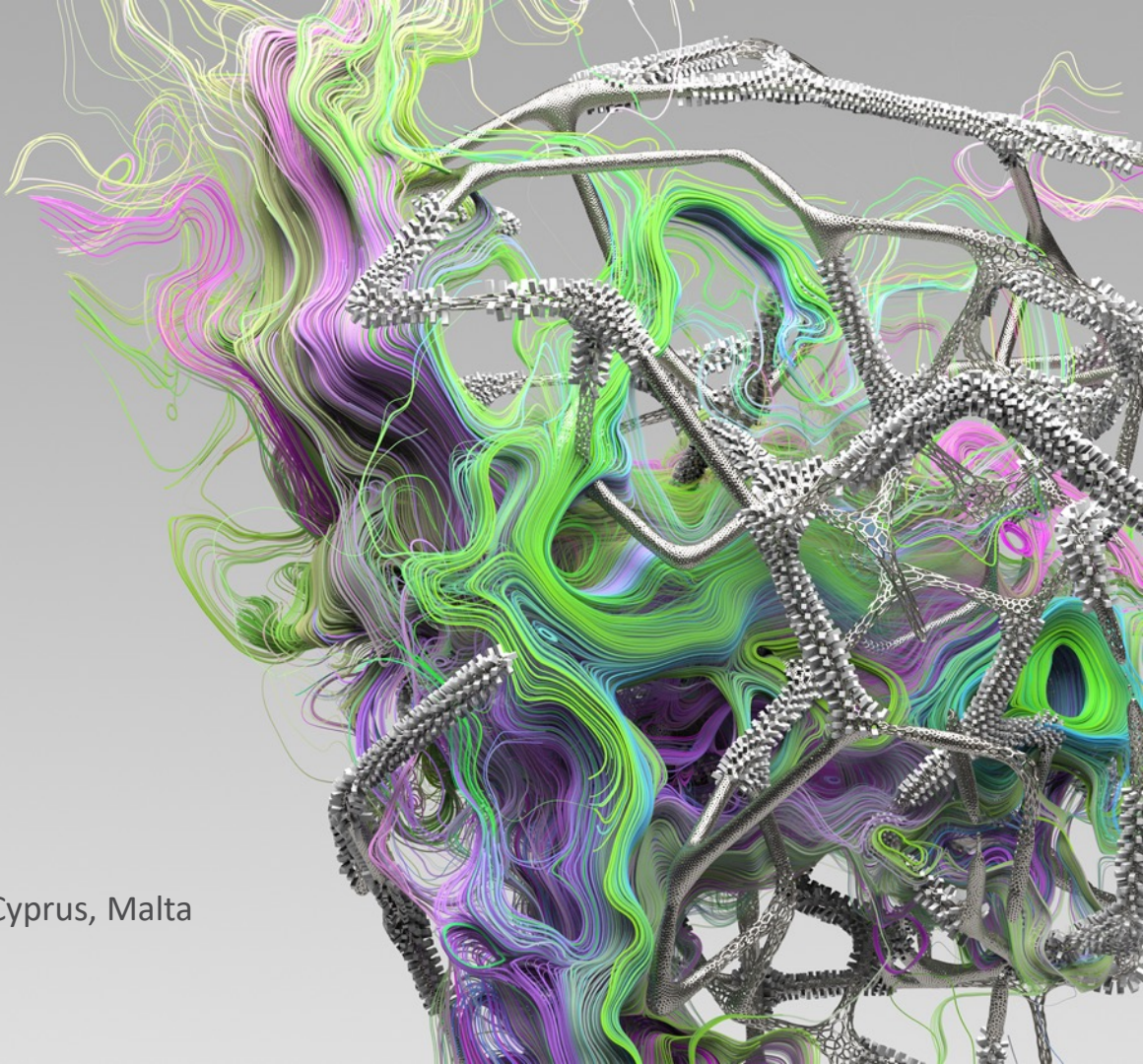




Deep Security- Cyber AI in the Data Center

Angeliki Philippopoulou, Manager, Crece, Cyprus, Malta
Infocom Security, 17.04.19



A Global Cyber Security AI Leader

We devote our resources to keep your customers safe



<2B in Sales

30 Years of Innovation

+7,000 Employees in 75 Countries

40% Employees in R&D

70% Threats Identified by Trend Micro

9 of the TOP 10

FORTUNE

GLOBAL

500



10 of Top 10 Telecom



9 of Top 10 Petroleum



9 of Top 10 Healthcare



8 of Top 10 Banking



8 of Top 10 Automotive

Market Leadership Position



The **market leader**
in server security
for the **7th straight year**



- Source: IDC, Securing the Server: Compute Solutions: Hybrid Cloud Has Transformed the Data Center, January 2017, #156136-7116



Recommended Breach Detection System
for **3 straight years**, and
Recommended Next-generation IPS



Leader in Gartner Magic Quadrant for
Intrusion Detection and Prevention
Systems, January 2017

- NSS Labs Breach Detection Test Results (2014-2016);
NSS Labs IPS Test Results, 2016
- <https://www.nss-labs.com/news/software-software-security/gartner-ids-report/>



Highest and Furthest to the Right in
the Leader's Quadrant in the Gartner
Magic Quadrant for Endpoint
Protection Platforms, Jan 2017



#1 in protection and performance

- <https://resources.trendmicro.com/Gartner-Magic-Quadrant-Endpoint.html>
- av-test.org (Jan 2014 to Dec 2016)

We Strive to Make the World a BETTER Place

\$4.5M through “Give and Match” over past 10 years

1800+ families housed through Home Building Program in the Philippines



TREND
MICRO™

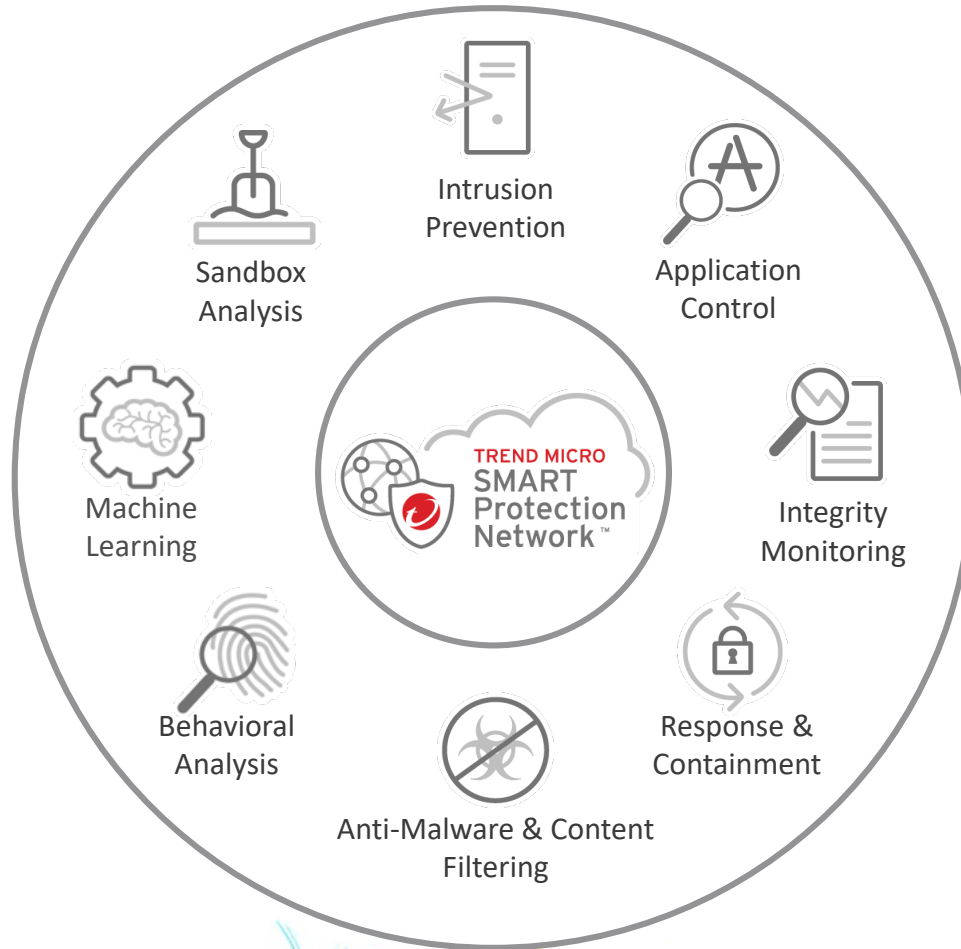




2018: Increased use by
cybercriminals of **machine
learning** for attack/evasion

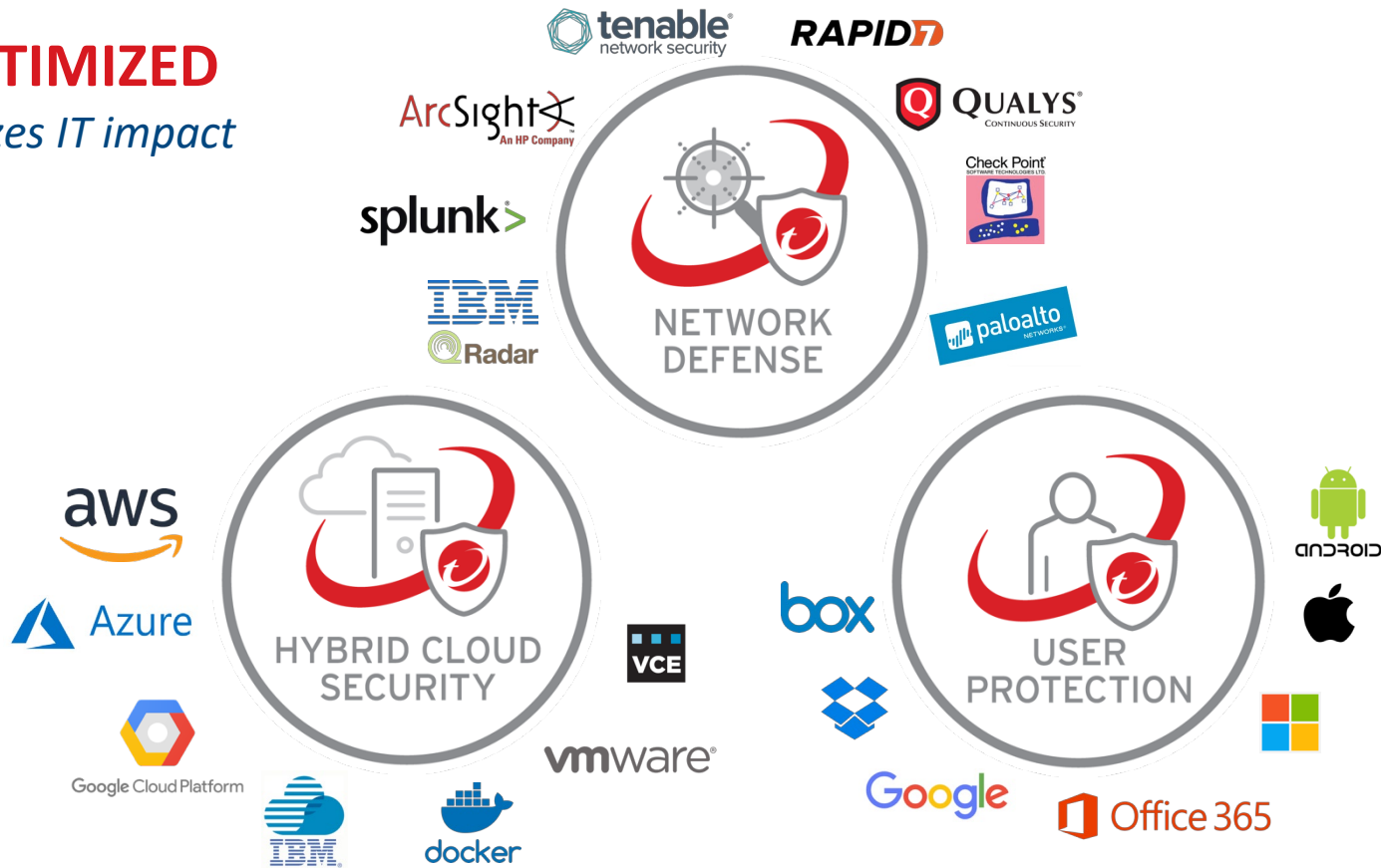
AI SMART

Maximizes protection



AI OPTIMIZED

Minimizes IT impact

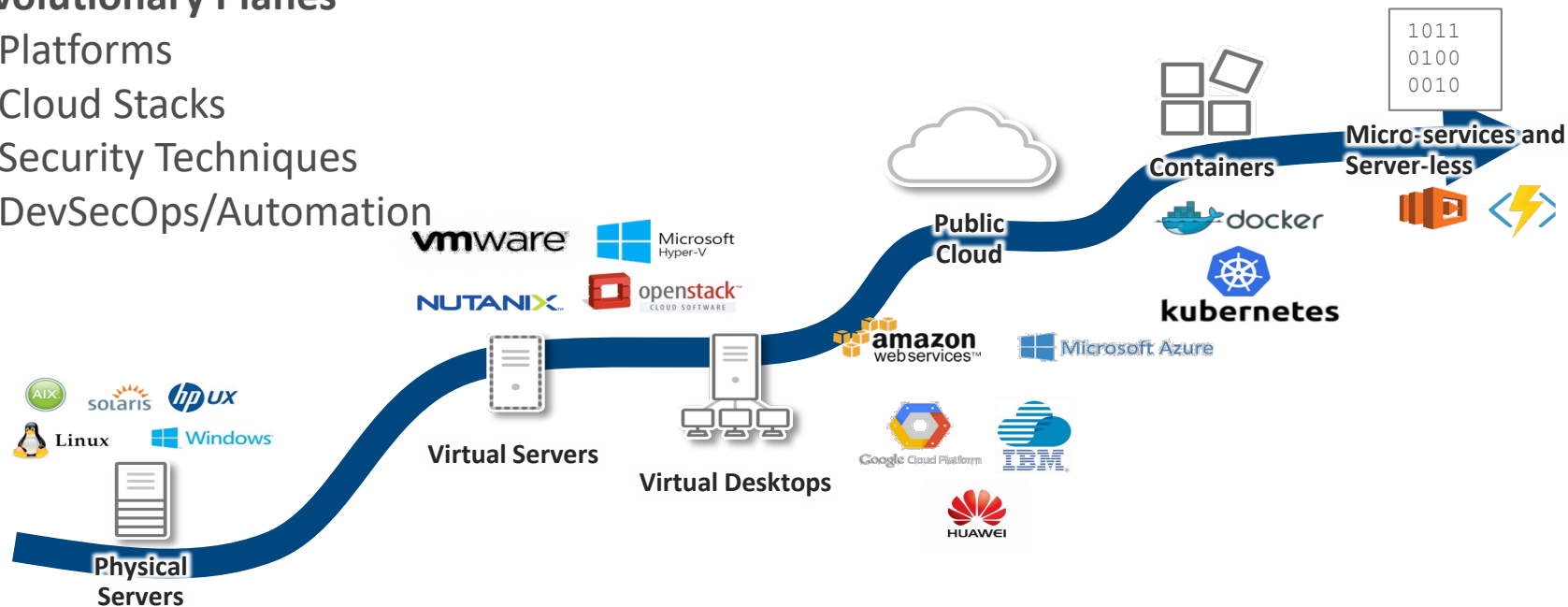


Infrastructure and Service Evolution



Evolutionary Planes

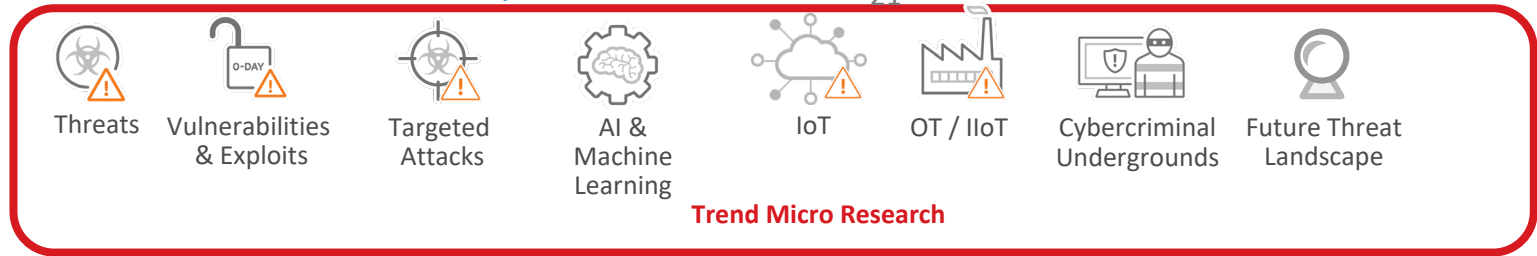
- Platforms
- Cloud Stacks
- Security Techniques
- DevSecOps/Automation



ZDI-Largest Global Vulnerabilities Organization

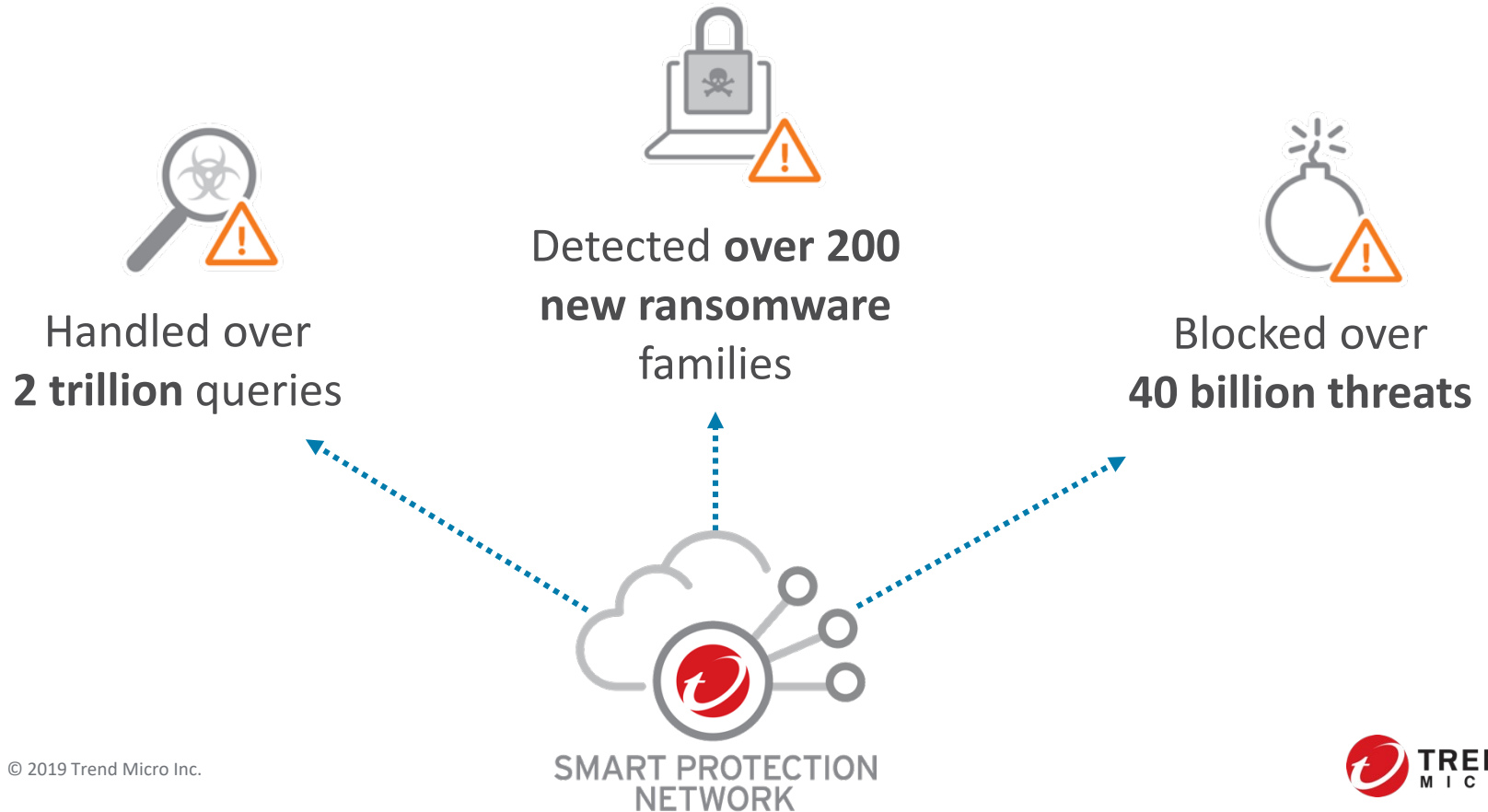
Discovered **70%** of verified vulnerabilities in 2017, 2018

LEADER in vulnerability discovery since 2007

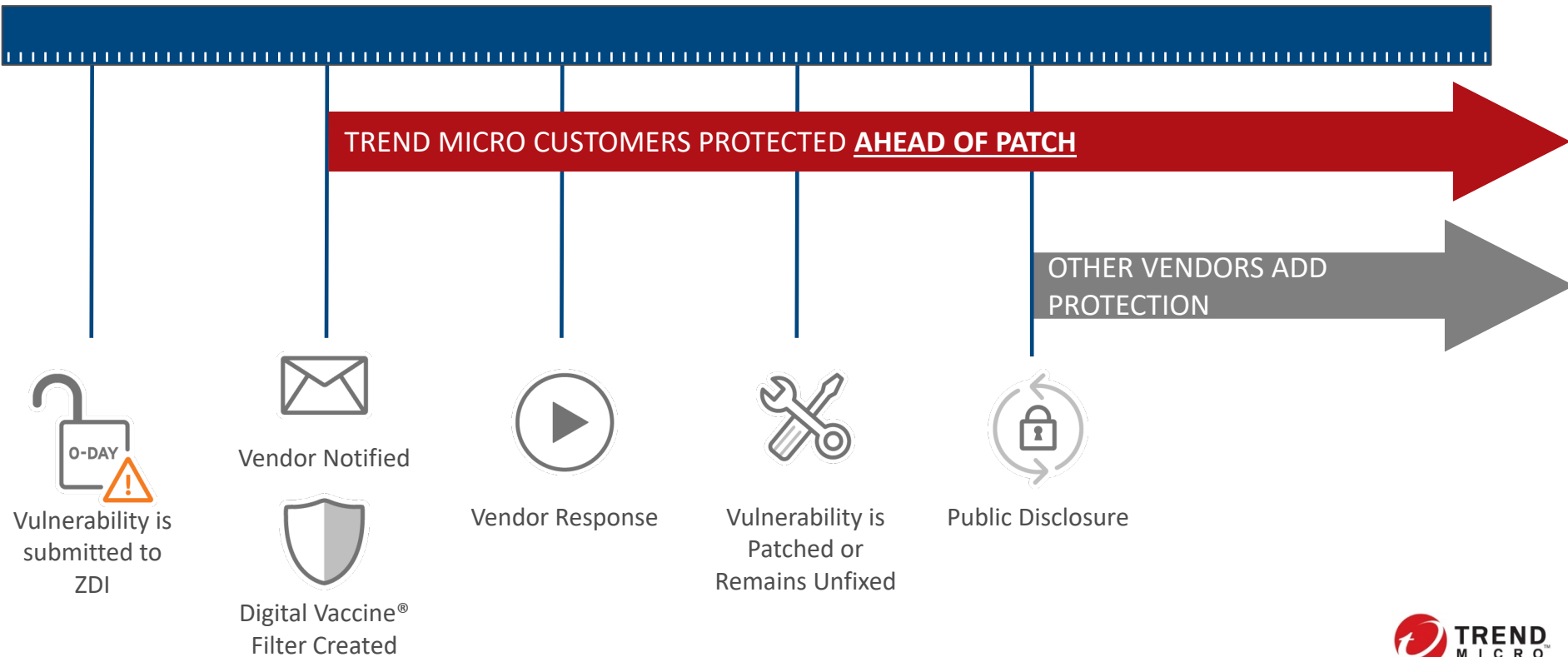


CISCO TALUS Security Labs
(now operated by Trend Micro)

Protection Facts in 2018



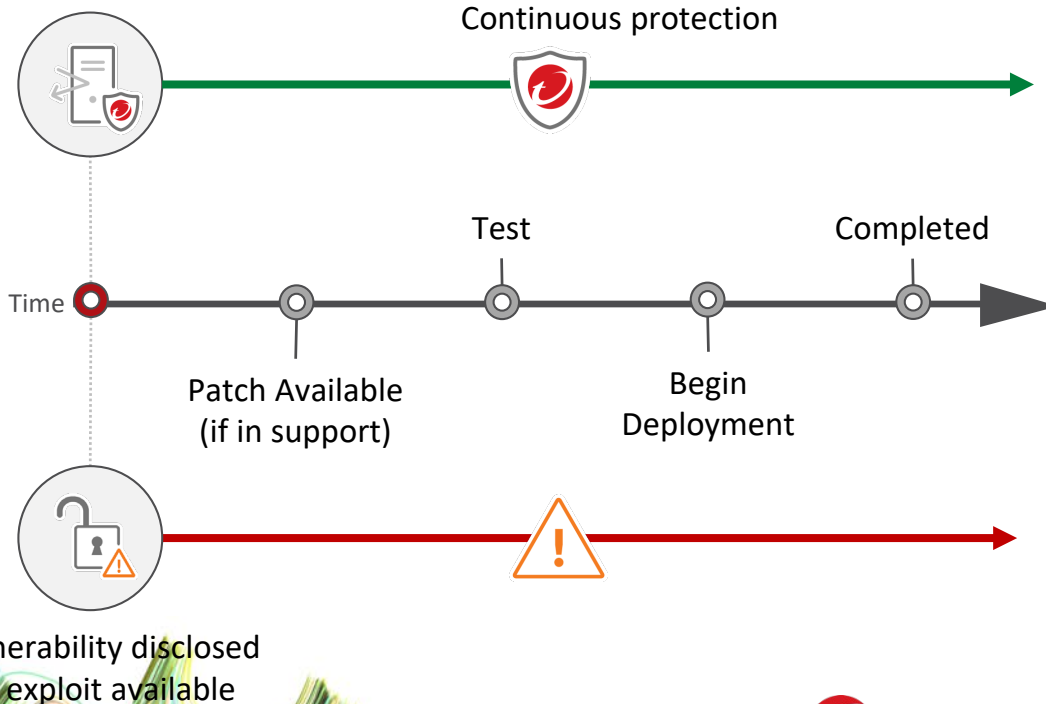
Virtual Patching Against Unknown Threats



Reduce Operational Impacts

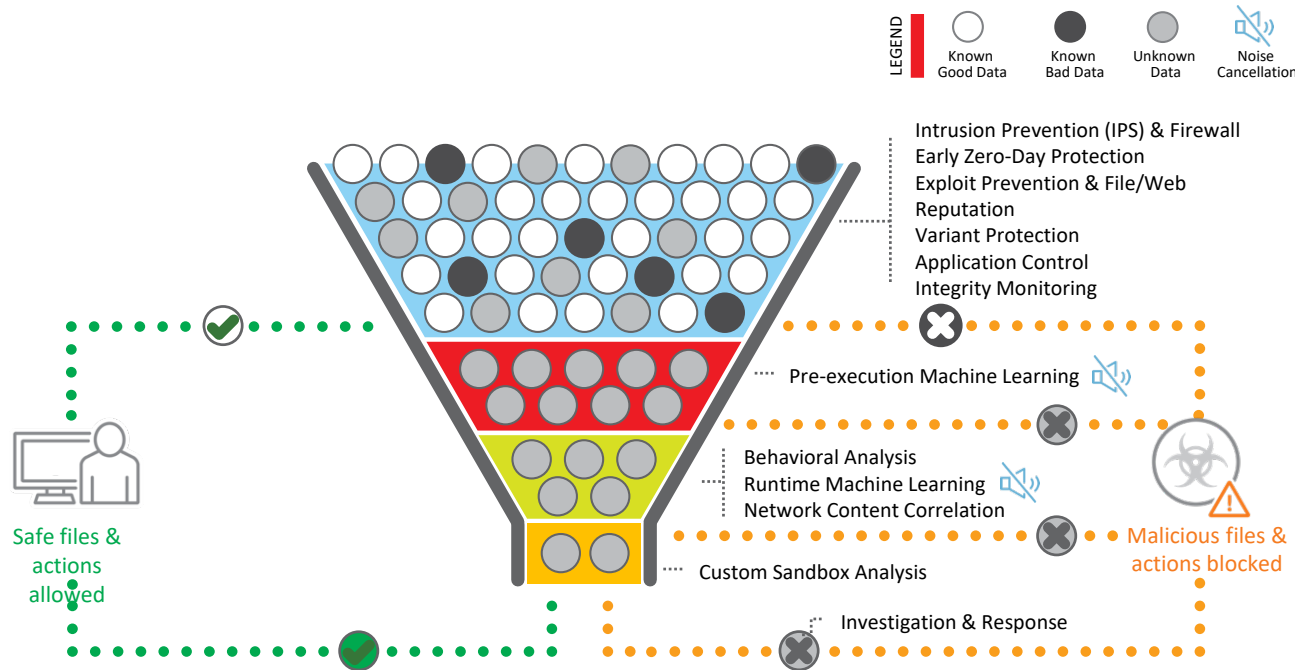
- Reduce operational costs of emergency & ongoing patching
- Protect systems where no patches will be provided
- Secure server and application-level vulnerabilities

Virtual patch
available



WannaCry ransomware protection delivered in March, 2017, with enhancements at public disclosure (May 2017)

Unique AI Sandboxing with Right Time Technique



Apex One™: Single AI Agent for All



Threat Detection & Response capabilities

including:



Pre-execution & Runtime ML



IOA Behavioral Analysis



Application Control



Exploit Detection



Virtual Patching



DLP & Device Control



In-memory Detection



Isolation / Quarantine



SaaS Management



Smart Protection
for Endpoints

Machine Learning
attachment analysis
& BEC ML analysis
Executive writing
style ML analysis



EDR
Investigation

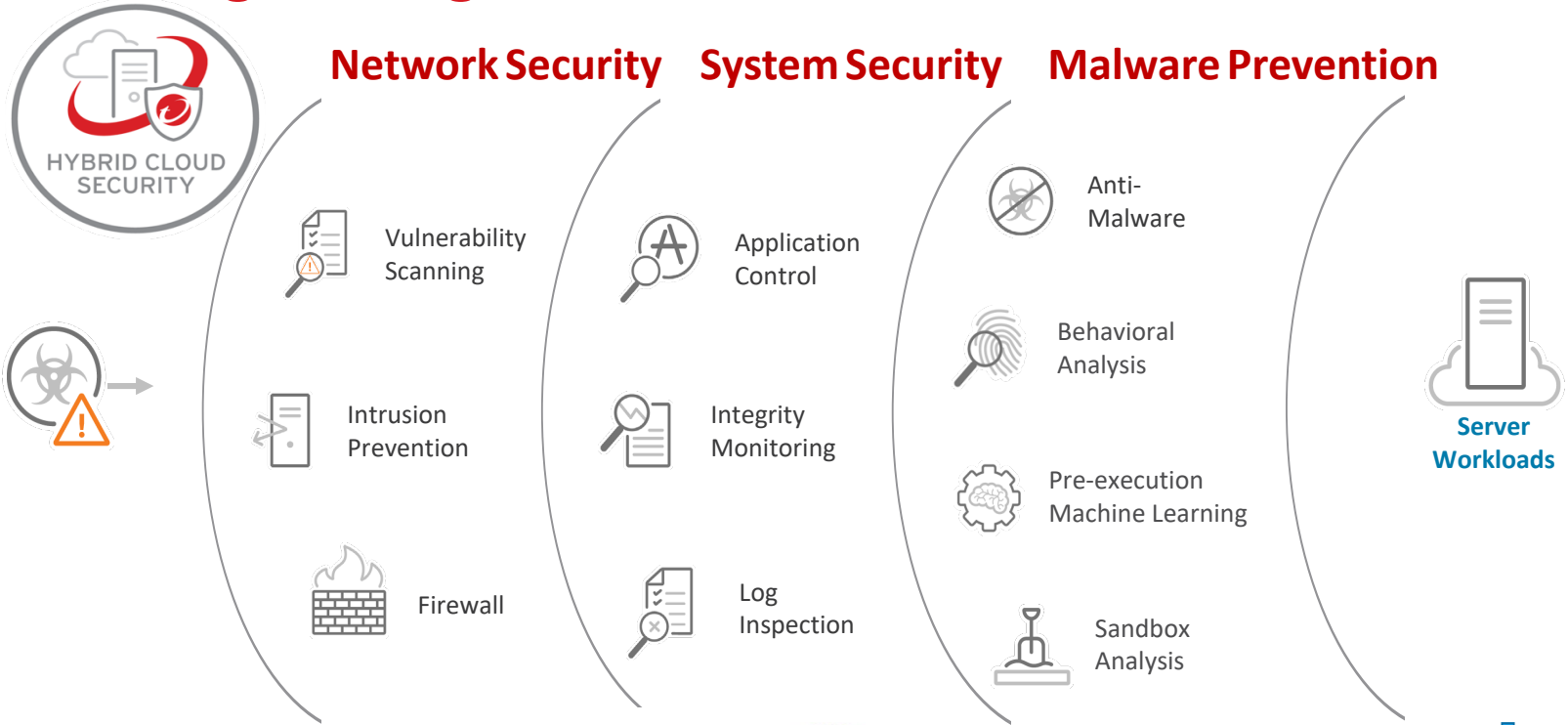


MDR
Service



Submit to Sandbox

One Single AI Agent - all server workloads



vmware®

aws

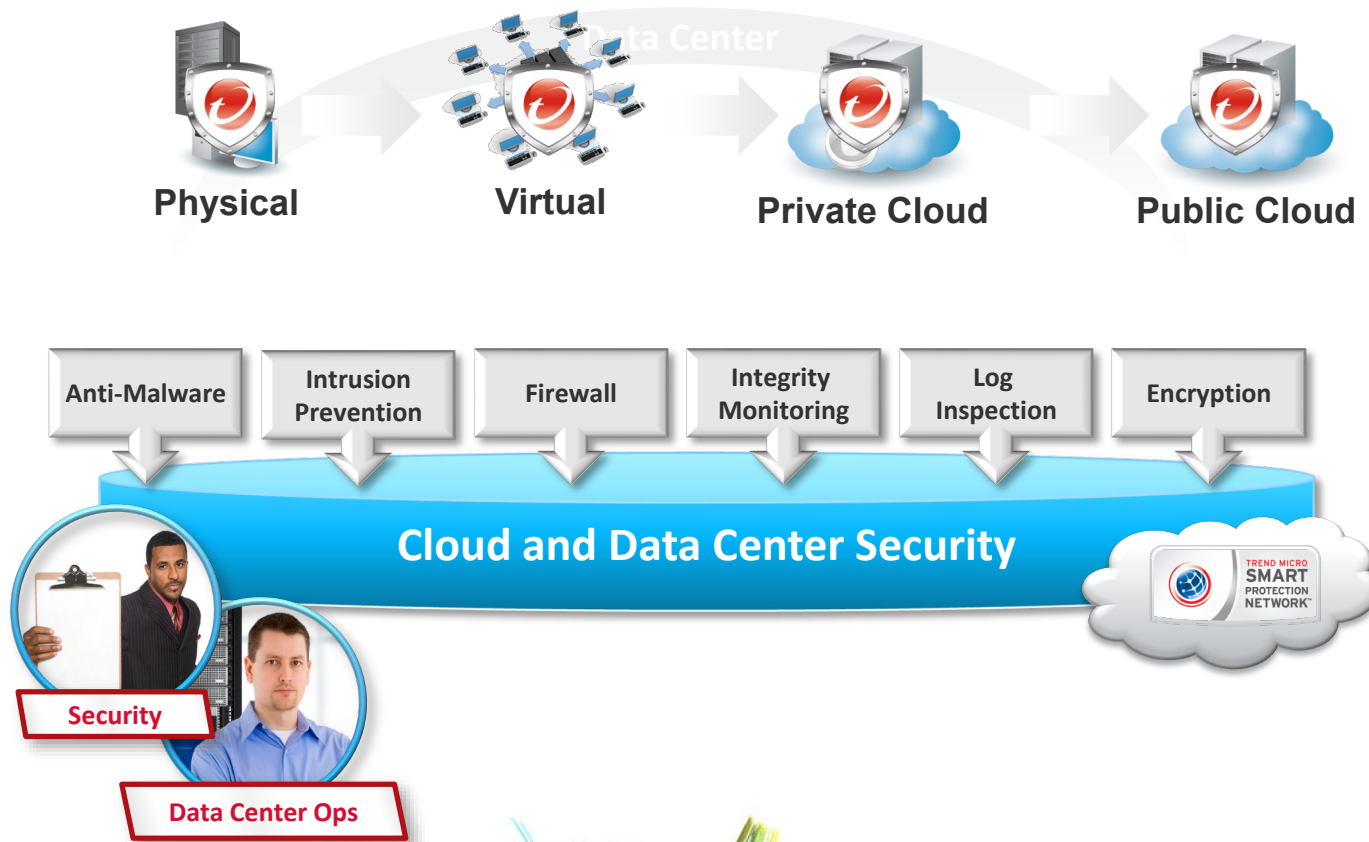


Google Cloud Platform

Azure

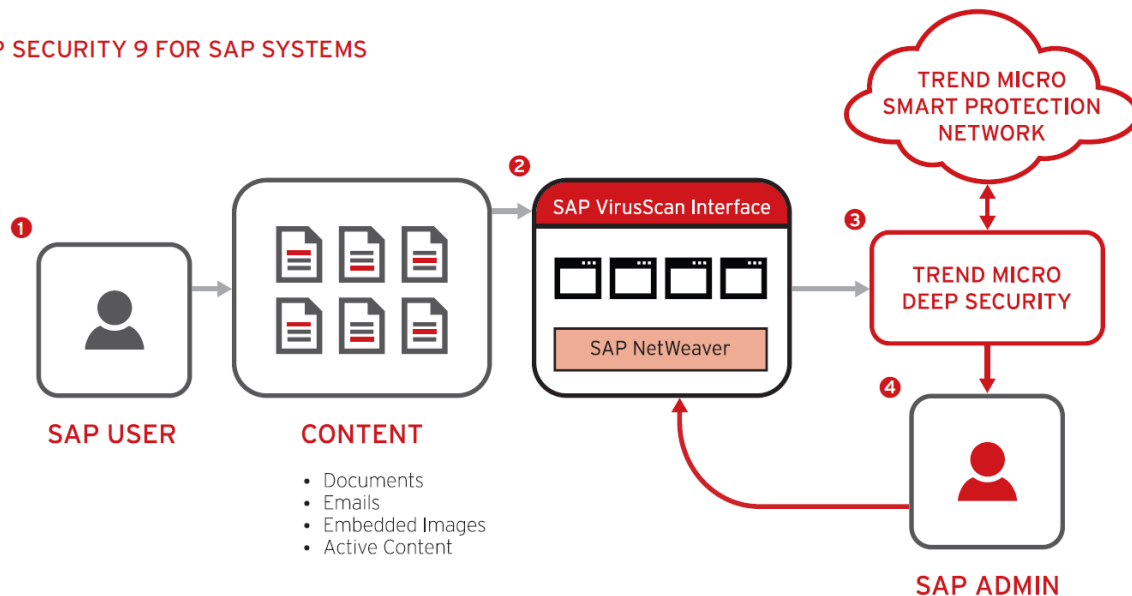


Complete Security for SAP NetSuite, SAP HANA, ICM



How Deep Security secures SAP content with AI

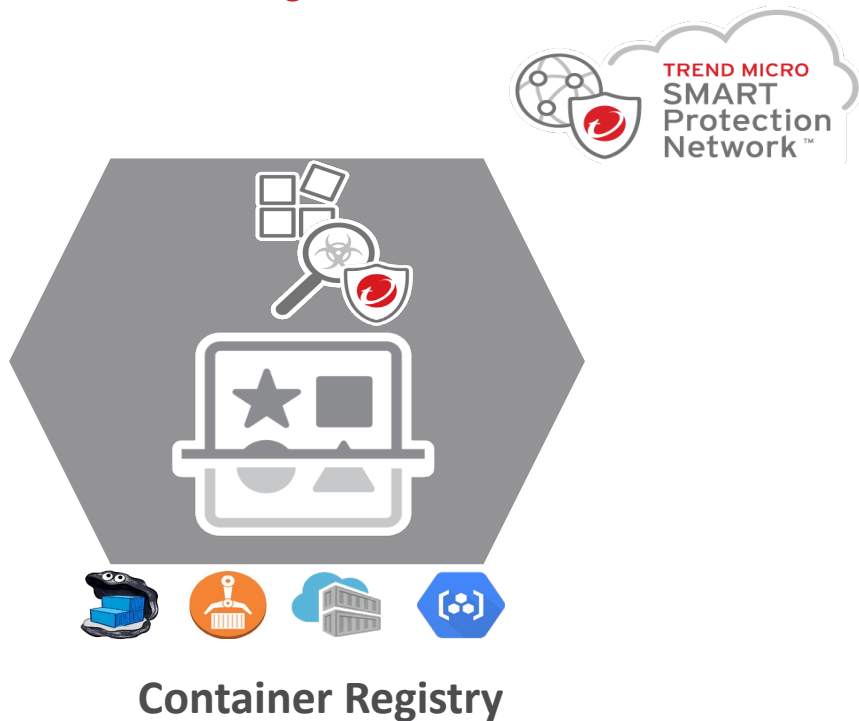
DEEP SECURITY 9 FOR SAP SYSTEMS



SAP® Certified
Integration with SAP NetWeaver®

Deep Security Smart Check

Ensure Container Images are Safe Before Runtime



- Scans Docker container images in the registry
- Early detection of malware and vulnerabilities
- Continuous monitoring and alerting integrated with the CI/CD pipeline tools
- Scan history for investigations or audits
- Lowers the operational impact of security

Accelerated compliance

- Multiple controls with central management & reporting
- Protect legacy environments
- Consistent security across the hybrid cloud

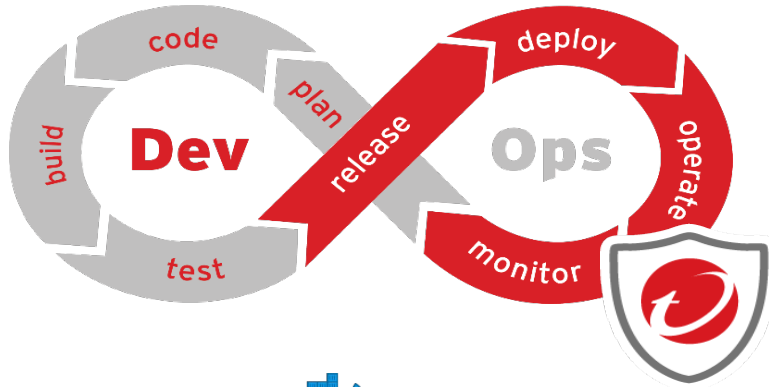


No More Platform Support Issues

Thousands of
supported kernels with
rapid updates



Optimized for DevOps



GitHub



servicenow™

CHALLENGE

Security is slowing down because it's hard to implement and isn't automated, missing-time-to market targets

CUSTOMERS WANT TO

Ship Fast: *automated security that is integrated in your CI/CD pipeline to reduce friction and increase speed*

VMWare-Trend Micro: Joint Development and Innovation

2009 – The first solution supporting introspection of network traffic through **the hypervisor**

2009 – First anti-malware introspection using VDDK. Trend Micro and VMware join hands in developing a next-generation Endpoint Security API allowing for **full agent-less** introspection of file systems

2010 –First and only partner solution to support **VMware vShield** - bringing to the world the first fully “agent-less” anti-malware

2011 – First fully **agent-less** security platform including anti-malware, intrusion prevention, and integrity monitoring

2012 – Supporting the latest vSphere platform, and providing security for hybrid clouds and vCloud-based service providers via vCloud Director integration

2013 – Deep Security with NSX integration at VMworld with VMware Hybrid Cloud Service.



MICROSOFT Leading Azure Partner



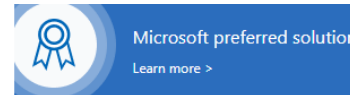
Trend Micro is Microsoft's leading Global security ISV driving Azure consumption

- Available on the Azure Marketplace
- Auto-detect instances and rapidly protect them
- Fully scriptable, including PowerShell scripts to automate provisioning and set up
- Broadest platform and kernel support



Microsoft Partner

Gold Application Development





Microsoft Dynamics™

The challenge: Transition multiple global physical data centers into a multi-region Azure configuration while maintaining compliance

The results:

- Multi-platform support with consistent security across the data center and cloud (Azure)
- Automated deployment of security controls without any security gaps
- Multiple security controls in a single platform, single agent

Security for **15,000+** Linux & Windows servers across data center AND cloud

Streamlined compliance with multiple global regulations (healthcare, financial services)

Accelerated deployment & easier management across physical and cloud

Amazon AWS Leading Partner in Growth



- AWS marketplace - simply billing, consumption contracts
- Auto-detect instances and rapidly protect them
- Broadest platform and kernel support
- Quick Start Reference Deployment Guide, including CloudFormation templates
- Member of SaaS partner program
- Container Competency Center

Advanced
Technology
Partner

ler
SaaS Partner





Gartner®

2018
Market Guide for
Cloud Workload
Protection Platforms

Free Download

**23 of 26
capabilities &
considerations**

**Trend Micro delivers
the most cloud
security controls of all
security vendors**

Leader in Managed Service/Cloud Service Provider Programs

CSP: “born-in-the-cloud” service providers who design, architect, build, migrate or manage cloud-based workloads and applications.



NORDCLOUD



Dedalus
Simplificando a tecnologia



CLOUDNEXA

CSP Platform: IaaS vendors; they’ve built platforms where a CSP can move their end customers’ data.



amazon
web services™



Microsoft



vmware®

Managed Cloud Providers: they offer managed solutions for the cloud.



Cloud Storefronts: they supply a platform that allows a CSP to have their own “storefront” offering



AppDirect

Odin



THE ART OF CYBERSECURITY

Unknown threats detected and stopped over time by Trend Micro. Created with real data by artist **Brendan Dawes**.