SOLUTION BRIEF

Trend Micro

HYBRID CLOUD SECURITY

Powerful, streamlined, and automated

INTRODUCTION

As you take advantage of the operational and economic benefits of virtualization and the cloud, it's critical to secure your virtualized data centers, cloud, and container environments effectively. If you neglect any aspect of security, you leave gaps that open the door to threats and serious data breaches. And, to comply with data privacy and industry regulations, you will need to demonstrate that you have the appropriate security, regardless of your computing environment.

Trend Micro™ Deep Security™ allows you to automate security within your DevOps processes and deliver multiple XGen™ threat defense techniques for protecting runtime physical, virtual, cloud, and container workloads, as well as scanning of container images in the software build pipeline. Deep Security combines the capabilities of multiple security tools, reducing the number of point solutions you need and providing a single dashboard that gives full visibility into leading environments like AWS, Google Cloud™, Microsoft® Azure®, and VMware®. Our platform lowers the cost and complexity of securing workloads across multiple environments by giving you purchase options aligned to the way you want to buy. This allows for automation of security operations, via extensive application programming interface (API) integration, and giving you security capabilities that can virtually shield servers from the latest advanced threats like ransomware and network-based vulnerabilities.

> Trend Micro is the **#1 provider of server security for physical, virtual, and cloud environments**[1]— combining the most complete set of security capabilities with automated management to dramatically reduce both risk and cost.

[1] IDC, Worldwide Endpoint Security Market Shares, 2015: Currency Volatility Headwind, #US41867116, November 2016

Why Trend Micro for hybrid cloud security?

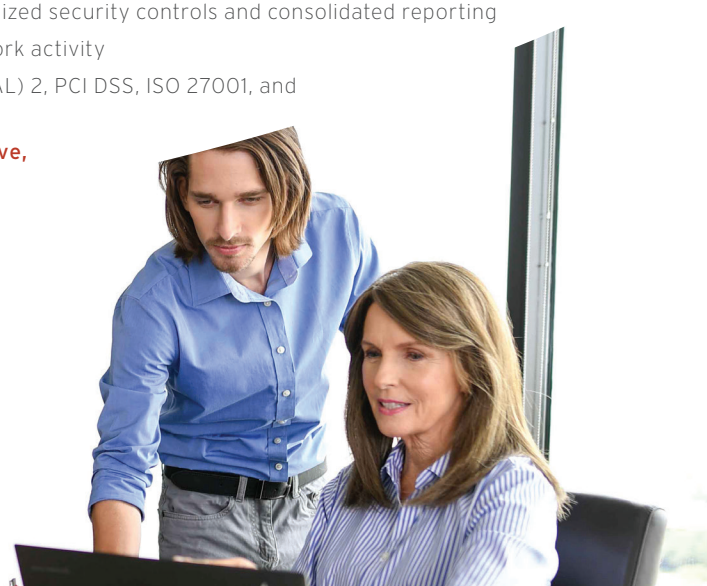
- Secures physical, virtual, cloud, and container environments with automated discovery, visibility, and policy management
- Provides the most complete set of security capabilities available from the global market share leader in server/workload security
- Reduces the number of security tools you need to protect your hybrid environment and meet compliance requirements
- Automates security to remove manual processes and reduce operational costs
- Offers a cross-generational set of security controls, powered by XGen security, optimized for leading environments
- Bakes security into your continuous integration and continuous delivery (CI/CD) pipeline with a rich set of APIs

ACCELERATE COMPLIANCE ACROSS THE HYBRID CLOUD

Compliance with major regulations and industry guidelines like the Payment Card Industry Data Security Standard (PCI DSS), Health Insurance Portability and Accountability Act (HIPAA), NIST 800-53, North American Electric Reliability Corporation (NERC), Federal Energy Regulatory Commission (FERC), SANS, International Organization for Standardization (ISO), and General Data Protection Regulation (GDPR) that span the data center and cloud. Deep Security helps by providing:

- Detailed, auditable reports that document prevented vulnerabilities, detected attacks, and policy compliance status
- Reduced preparation time and effort required to support audits through centralized security controls and consolidated reporting
- Support for internal compliance initiatives to increase visibility of internal network activity
- Proven technology certified to Common Criteria Evaluation Assurance Level (EAL) 2, PCI DSS, ISO 27001, and Federal Information Processing Standard (FIPS) 140-2 validated

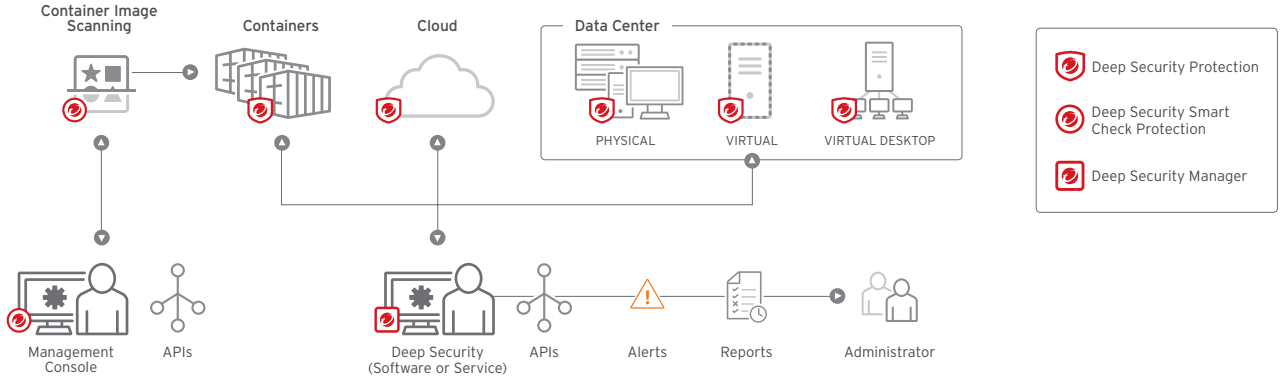
To learn more about our hybrid cloud security capabilities or to take a test drive, visit trendmicro.com/hybridcloud



DEEP SECURITY

Delivering multiple security techniques in a single solution, Deep Security makes the deployment and management of security faster and easier—simplifying the transition to cloud and microservices such as containers. To save you time and resources, Deep Security includes centralized management, automated server discovery, and vulnerability shielding—leveraging integration with environments like AWS, Azure, Google Cloud, and VMware, that have been optimized for maximum performance without compromising on security.

Deep Security is also available as a service. Our cloud-based security enables quick setup, and automates security operations for cloud instances.



FULL LIFE CYCLE CONTAINER SECURITY

Deep Security delivers complete protection across the container life cycle, from the image build stage through to runtime. Deep Security Smart Check is a registry and build-time scan service for container images, improving protection of images prior to deployment. Deep Security Smart Check delivers automated, continuous image scanning for malware, vulnerabilities, secrets, and policy compliance, along with image assertion. Custom compliance policies can be set to ensure you meet compliance regulations. Secure images earlier in the CI/CD pipeline, without negatively impacting the ability for DevOps teams to continuously deliver production ready applications and meet the needs of the business.

At runtime, Deep Security works seamlessly to protect containers at multiple layers of the application stack, including host-based security controls, protection at the container platform (Docker®), and orchestration (Kubernetes®) layers, as well as security for the containers and even the containerized applications. Designed with strong API integration for leading cloud vendors, IT Security can protect cloud environments with automated protection while DevOps teams can leverage security as code by baking security into the CI/CD pipeline for frictionless and automated protection.

PROVEN VIRTUALIZATION & DATA CENTER SECURITY

The Deep Security solution brings discovery, visibility, and protection to your virtualized environments and removes the complexity and risk of managing security across multiple environments. Deep Security has been optimized for the virtualized data center and virtual desktop infrastructure (VDI) environments, helping the operations and security teams to maximize security with minimal impacts on performance. It delivers decreased risk, lower operational costs, and rapid response to threats with automatic policy management, hypervisor-based security, and central visibility and control.

AUTOMATED CLOUD SECURITY

Deep Security helps to defend your cloud workloads, addressing the need to protect what is deployed in the cloud as a part of the shared security responsibility for the cloud. It provides elastic security for dynamic workloads running in AWS, Azure, Google Cloud, and more. Deep Security's REST APIs allow for security to be integrated with your existing toolset, enabling automated security deployment, policy management, health checks, compliance reporting, and more.

SUPPORT AND EMPOWER INCIDENT RESPONSE

Deep Security supports incident response teams with powerful capabilities for detection, response, and investigation, including the ability to monitor for indicators of attack and lockdown suspicious applications and processes. Deep Security also integrates with leading security information and event management (SIEM) platforms to analyze telemetry data for advanced threat hunting and IOC sweeping, as well as security orchestration, automation, and response (SOAR) tools. Additionally, when resources or time to investigate, remediate, and hunt for threats is limited, Trend Micro offers a comprehensive Managed Detection and Response (MDR) service that provides many of these functions as a managed service.

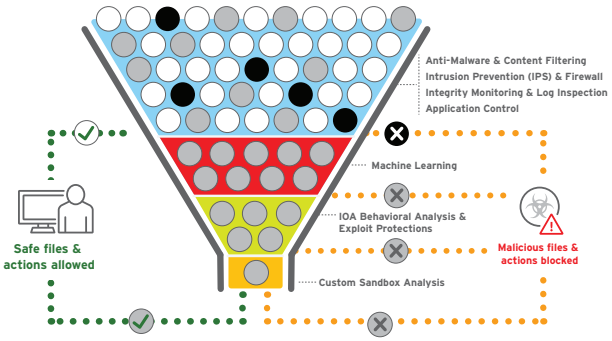
> "Trend Micro Deep Security offers amazing extensibility to manage all policies and controls in our hybrid cloud environment with minimal resources."

Todd Williams
Manager, Security Operations
MEDHOST
Tennessee, US

BE POWERFUL:

Threats are becoming more sophisticated and disruptive, increasing the risk of leaving the business unprotected and potentially damaging the reputation of your security team and the organization.

Your security team needs a full range of security capabilities to protect against more threats faster. Protect against vulnerabilities, malware, and unauthorized change with the broadest range of security capabilities in a single tool with Deep Security.

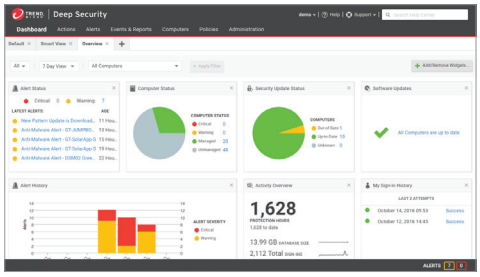


A consolidated solution with multiple security tools lowers the maintenance, budget, and overhead associated with support and operational functions. Ensure security throughout the entire development and operations' pipeline from build pipeline image scanning to runtime security for deployed workloads.

GET STREAMLINED

As the business demands increase and the growth of hybrid cloud environments continues, teams and tools used to secure these environments can become more siloed. This leads to inconsistent security due to multiple consoles and an increase of complexity in investigation and compliance reporting.

To overcome this challenge, Deep Security ensures consistent security and central visibility, which is required to manage risk and meet compliance.



Accelerate incident response through intuitive dashboards and actionable insights across your entire environment, meaning your limited resources are able to accomplish more in less time.

GO AUTOMATED

Development and operations teams are moving fast and as a security expert, it can sometimes feel as though you're losing control to shadow IT and business units. This can lead to a lack of security adoption because security is viewed as a roadblock, resulting in organizational risk.

Having the right tools to fit into your teams' current processes can make all the difference.

With Deep Security, you give your business tools that fit seamlessly into the development and operations processes, without introducing friction. This will allow you to become a trusted partner with DevOps and increase security adoption across your organization.

Benefit from Trend Micro's Connected Threat Defense, which enables the sharing of threat intelligence and event information across Trend Micro and third-party security technologies, including:

- Trend Micro: Endpoint, email, web, and network security solutions
- SIEM: Splunk®, Sumo Logic®, HP® ArcSight®, and IBM® QRadar®
- SOAR: Splunk Phantom, Demisto®, Swimlane, ServiceNow®
- Infrastructure provider security offerings: AWS web application firewall (WAF), AWS GuardDuty, Amazon Macie®, AWS Security Hub
- Vulnerability management: Qualys®
- Security tools: Okta® integrated identity, Tenable®

Optimized for:

aws

Azure

Google Cloud

vmware

docker

kubernetes

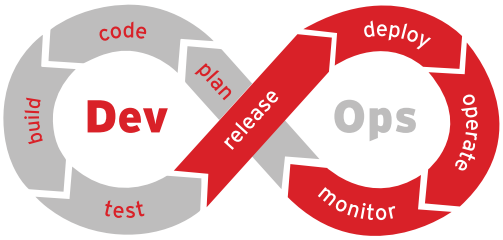
> "In addition to increasing system performance by almost 50 percent, Trend Micro solutions provide the comprehensive security platform we need to secure our physical, virtual, and cloud environments, and to support evolving compliance requirements"

Tanweer Surve
Director, Enterprise Architecture and Cloud Technologies
Essilor
Texas, US

BUILD SECURE

Increased security and compliance requirements are causing unplanned work, which means you're wasting too much time proving compliance and doing re-work to meet security requirements.

Development and operations teams need security as code that will help to reduce disruption, but still satisfies security and compliance teams. Deep Security has smart security controls that ensure you meet security and compliance requirements from the first build.



Security is moving left and covers your entire development and operations processes with both build-time image scanning and runtime workload protection.

SHIP FAST

Although important, security tools can often slow down your CI/CD pipeline, which means development teams are missing time-to-market targets because security is hard to implement and isn't automated.

Your teams need automated security to reduce friction and increase speed. With Deep Security, protection is connected through automation and integration in your CI/CD pipeline with the tools that you already use today.

Automate manual processes with security that integrates into your DevOps toolchain using RESTful APIs.

- Orchestration tools: Chef, Puppet®, Ansible, AWS OpsWorks, SaltStack®, Kubernetes®
- Monitoring tools: New Relic®, AWS CloudTrail®, AWS Config
- Continuous delivery: GitHub®, Jenkins®
- IT service management: ServiceNow, Jira®, Slack®

RUN ANYWHERE

Often times, security tools are incompatible or simply not optimized for the cloud or your deployment processes. This means that security ends up causing high overhead due to multiple environments requiring unique tools, thus hindering your ability to streamline operations.

You need adaptable security tools that fit anywhere you build, from the data center to any cloud. Deep Security is optimized for the place that best suits your application, ensuring that you can run your applications anywhere.

Deep Security is an optimized security solution with API integrations to seamlessly build across leading cloud (AWS, Azure, Google Cloud), virtualization (VMware), container (Docker, Kubernetes), and data center environments.

Trend Micro Hybrid Cloud Security solution is powered by XGen, a smart, optimized, and connected security approach.

POWERED BY XGen™ SECURITY

> "Businesses face ever-growing and ever-changing threats on the internet. By blocking threats, Deep Security protects the online experiences of our customers. This upholds our reputation and theirs."

Todd Redfoot
Chief Information Security Officer
Go Daddy

TREND MICRO™

Securing Your Connected World

To learn more about our hybrid cloud security capabilities or to take a test drive, visit trendmicro.com/hybridcloud

Available on aws marketplace Azure