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SECURING A WORLD IN MOTION

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Entrust CloudControl for VMware NSX

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SECURING A WORLD IN MOTION

Software-defined data centers (SDDCs) are being widely adopted as a way to make data centers more agile, operationally scalable, and secure. SDDC is defined by computer, storage, and network virtualization. Network virtualization enables network isolation by default and NSX native security capabilities provide in-kernel, scale-out firewalling with line-rate performance distributed to every hypervisor, automated provisioning of security services, automated workload moves/adds/deletes, granular policy enforcement at the virtual level, and orchestration of best-of-breed partner services.

VMware and Entrust have partnered on an integrated solution to enable fine-grained administrative access to configure, control, and monitor security policies for micro-segments to reduce operational and security risks. The solution includes centralized authentication, authorization, and audit control. Separation of duties and monitoring administrator access to security configurations and policies is analogous to the separation and protection of network segments delivered with NSX micro-segmentation.

The VMware NSX platform offers operationally feasible micro-segmentation inside the data center perimeter without compromising performance of data center traffic or increasing the cost and complexity of security infrastructure. The powerful segmentation that NSX delivers for the virtualized network must be matched with similar segmentation and control for virtual administrator access to prevent unlimited access and control of virtual routers, switches, and firewalls. Entrust delivers enterprise-class administrator controls for NSX.

Entrust CloudControl™ helps ensure that VMware NSX deployments have the required administrative controls and monitoring to fundamentally strengthen security and risk posture. Supporting VMware Cloud Foundation, organizations can realize the full benefits of micro-segmentation in the SDDC and also be assured that they can meet their security requirements with granular, role-based access control and monitoring, reduce the time for trouble resolution, and enable compliance monitoring.

Entrust CloudControl deployed with VMware NSX provides advanced administrative controls and monitoring, enabling networking teams to implement and enforce privileged user separation of duties and strong authentication for the NSX network virtualization platform, thereby protecting network resources from process failure or administrative configuration errors.

BENEFITS

- Saves time on compliance and audit reporting, and reduces troubleshooting and resolution timing with advanced reporting on NSX admin access and changes

- Strengthens security posture with granular control over security configuration and policy that is aligned with NSX micro-segmentation

- Prevents downtime and service disruption by protecting the virtualized network from process failure or administrative configuration error with change controls

- Achieves authorization and authentication requirements for two-factor authentication, tokens, smart cards, and AAA servers for VMware NSX deployments

Granular access control to support NSX micro-segmentation

Entrust CloudControl can contain and prevent damage to network resources due to process failure or privileged administrator error with a granular, role-based access control for NSX deployments, as well as provide separation of duties within networking teams and between networking and infrastructure virtualization groups.

Compliance assessment and remediation of critical NSX configurations

Entrust CloudControl can significantly improve an organization's ability to identify, remediate, and report on NSX, configuration and security management drift which can lead to unintended downtime or security exposure.

Supporting VMware Cloud Foundation, the centralized solution enables organizations to achieve authentication, authorization, and audit control for UI and API access to critical infrastructure resources in the ecosystem including ESXi hosts, vCenters, NSX-T Managers, vSAN, and SDDC and associated workload and management domains.
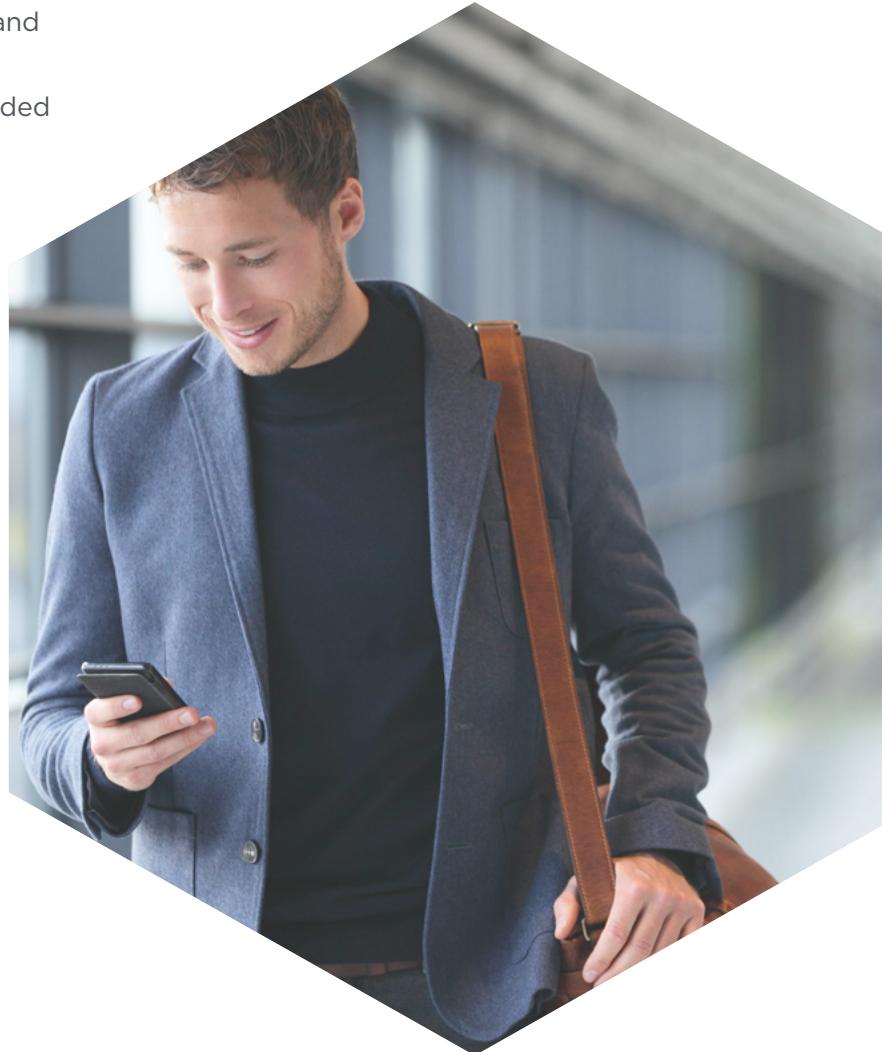
Strong authentication for NSX administrators

When Entrust CloudControl is deployed with NSX, organizations are able to control who gets access to NSX resources with strong authentication and authorization, including two-factor authentication using tokens, smart cards, and AAA servers.

Peer approval of critical NSX operations by admins

Secondary approval workflow increases the power and flexibility of Entrust CloudControl by enforcing a "two-person rule" integrity control. This secondary approval workflow can help prevent both malicious actions and unintentional mistakes to ensure operational integrity.

Powerful NSX logging and reporting

Entrust CloudControl provides event logging of privileged, user-level approved and denied operations on NSX resources. This provides organizations with detailed information beyond the standard logging provided by NSX for faster trouble resolution and compliance reporting.

SDDC enables data center operators to deliver – for the first time – operationally feasible micro-segmentation inside the data center perimeter without compromising performance of the data center traffic or increasing the cost and complexity of security infrastructure. Entrust CloudControl with VMware NSX strengthens network security posture and reduces operational risks by applying granular, role-based access controls and monitoring for administrators of NSX deployments.

Role-based access control (RBAC)

- Limit administrator actions for separation of duties and least privilege access
- Pre-defined and customizable roles specific to NSX

Strong administrator authentication

- Two-factor: RSA SecurID, CA AuthMinder
- RADIUS, TACACS+

Enhanced administrator logging

- Event logging based on Entrust CloudControl-configured and -managed roles for faster trouble resolution and easier compliance reporting

For more information

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ABOUT ENTRUST CORPORATION

Entrust is dedicated to securing a world in motion by enabling trusted identities, payments, and data protection. Today more than ever, people demand seamless, secure experiences, whether they're crossing borders, making a purchase, accessing e-government services, or logging into corporate networks. Entrust offers an unmatched breadth of digital security and credential issuance solutions at the very heart of all these interactions. With more than 2,500 colleagues, a network of global partners, and customers in over 150 countries, it's no wonder the world's most entrusted organizations trust us.

Learn more at
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