White Paper

trustgrid

Secure Connectivity for Healthcare Applications

Seamless connectivity to healthcare providers and medical imaging devices

Trustgrid delivers a cloud-native SD-WAN to enable highly available and secure connectivity between public and private cloud healthcare applications and the provider systems or medical equipment they serve.

More Protection for Healthcare Data

Trustgrid integrates state-of-the-art security with software-defined networking to deliver an industry leading security posture. The Zero Trust model ensures policies and trust are enforced throughout the network environment and leverages an implicit deny on all traffic until authorized. By removing all pre-shared keys (PSKs) from the network and using certificate-based authentication, Trustgrid eliminates many possible attack vectors.

Trustgrid encrypts all connections using TLS 1.2 in place of traditional IPsec tunnels.

This delivers a higher level of encryption and future proofs the connection as IPsec is deprecated by the Internet Engineering Task Force (IETF).

Changes

Actions

Search

Advanced Search | Clear Advanced Search

Date	IP	Event...	Details	User Name	Item Type
2021-02-22	1 .246	change	Node (uid=9d2d2e8e-37fd-40ab-b9c5-201b0cb55095, fqdn=edge1-cluster-1.demo.trustgrid.io) config.snmp.engineId 073Cgo0RveaJNEmPs4qf7dv2 to NcCGZ3IASUYkjLa5wooupF7K	joe+demo@trustgrid.io	Node
2021-02-22	1 .246	change	Cluster (fqdn=edge1-cluster.demo.trustgrid.io) config.exec.limits.memory.max 53 and 50	joe+demo@trustgrid.io	Cluster

Showing Rows 1 to 2 of 2 10

Figure 1 Configuration audit logs in Trustgrid portal.

For more information visit www.trustgrid.io

Simplify Compliance for Healthcare Applications

Designed to meet the increasingly complex needs of highly regulated institutions, Trustgrid offers native features designed to simplify compliance for healthcare application and medical equipment providers. Trustgrid is audited annually for compliance with SOC 2 Type II security standards which includes a full penetration test of all systems. Centralized logs capture netflow, all configuration or system access changes, patches/updates, and are easily integrated into SIEM systems. The Trustgrid cloud management portal natively requires multi-factor authentication and can be restricted to specific IP ranges. Support for many common SSO providers (Okta, Azure AD, etc) is also provided.

Trustgrid Secure Architecture

The security and privacy of healthcare data is enhanced with Trustgrid's application architecture. Trustgrid utilizes a centralized, multi-tenant suite of applications deployed in Amazon Web Services (AWS) for management of all Trustgrid Nodes including configuration, security policy, and monitoring. This is called the Control Plane. A separate single-tenant, distributed application handles all data transmission, called the Data Plane. The Data Plane is a point-to-point connection from the financial institution data centers directly to the application provider's environment. The Data Plane is dedicated to each provider or equipment data source and is unable to connect to anything other than the application provider.

The separation of the Control Plane from the Data Plane enables complete privacy and security of all data transmitted between the application and the provider or medical equipment.

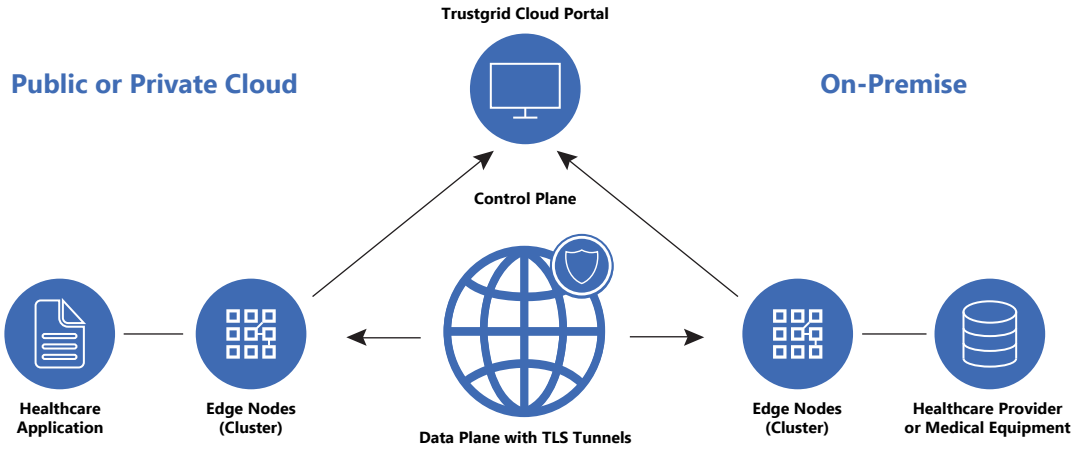

Figure 2 Trustgrid's application architecture

Trustgrid Secure Operations

Trustgrid develops, deploys and operates the software platform used for application connectivity. Trustgrid provides Tier 2 and 3 support services as well as automated patches/updates. The SOC 2 Type II compliance audit ensures all necessary controls are in place to prevent access to the sensitive data that is encrypted and transmitted in the Data Plane. These controls include role-based access controls for all support and development staff, no retention of any data plane traffic for any reason including testing, and a comprehensive IT Security Policy.

Trustgrid utilizes Amazon Web Services (AWS) for all Control Plane application functionality. AWS' extensive security and compliance investments also protect access to critical Control Plane assets.

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