



Secure Administration of IT Infrastructure

Background

Administrative access to IT resources using traditional usernames and passwords is a major security vulnerability. Malicious actors attack an organization's business-critical systems like servers, storage, networking, and security infrastructure to take control, propagate malware, and steal confidential and proprietary information. A new solution is needed to enable IT administrators to securely access these systems remotely.

Challenges

Whether accessing remotely or locally on-prem, IT administrators face the following challenges in managing tens, hundreds or even thousands of routers, switches, servers, storage, firewalls and other networking and security resources.



Credential Management

Manually managing and rotating credentials on IT infrastructure is error-prone, labor-intensive, inefficient and costly.



Access Control

Enforcing access control at the infrastructure level is operationally complex and costly.



Accountability

Many organizations are unable to monitor IT access to critical infrastructure and lack comprehensive reporting and analysis tools, which may cause regulatory compliance violations.

Solution Overview

Zentry is a next-generation secure remote access solution based on 'never trust, always verify' zero trust principles. It streamlines credential management using transient authentication, and controls and monitors access across on-premise and cloud-based infrastructure. Users can securely access network infrastructure from anywhere in the world, without the need for traditional VPN connectivity and receive a consistent experience for both local and remote access.

How it Works



Transient Authentication

Transient authentication helps enterprises modernize their user access process by seamlessly combining single sign-on (AAA, federation with SAML/OIDC), multi-factor authentication (MFA) and device certificates. For seamless access to back-end IT infrastructure, Zentry uses a unique passwordless single sign-on mechanism that automatically generates temporary credentials. Transient authentication also eliminates unneeded root privileges, reduces the risk of root credentials being stolen and eliminates labor-intensive administrative tasks for infrastructure credential rotation and management.



Centralized Policies

Zentry centrally manages and enforces secure remote access of critical IT infrastructure. Rather than relying on device-level access controls and root credentials, it enhances security by enforcing access control from a centralized policy engine, based on a set of attributes that includes user, group, time, location, device IP address, and a range of additional criteria.



Reporting & Analytics

To maintain accountability, Zentry logs data from all user activity — including IT administrative access. Reporting and analytics provide a centralized view from which to monitor, analyze and search data on infrastructure access at scale to meet compliance and audit requirements



Highlights

- Zentry ClientAccess and Zentry WebAccess deliver flexible access for both managed and unmanaged devices.
- Designed with zero trust technologies like single sign-on (SSO) and multi-factor authentication (MFA) for increased security
- Self-service portal allows users to publish and manage SSH, Telnet, and Web-based access to back-end IT infrastructure
- Passwordless Zentry transient authentication enables single sign-on to back-end IT infrastructure while improving security and streamlining credential management
- Policy engine centralizes access controls for IT infrastructure
- End-to-end encryption
- Accountability through reporting, analytics and extensive dashboards and visualization

Benefits

Ease-of-Use

- Clientless, privileged user access through HTML5 browsers
- Seamless client experience for managed devices
- Consistent user experience for local and remote access
- Self-service portal for SSH, Telnet and Web access to IT infrastructure
- Passwordless transient authentication

Security

- Device validation
- SSO minimizes repeat authentication
- Multi-factor authentication
- Transient Authentication
- Fine-grained access control policy engine
- End-to-end encryption

Performance

- High-performance access gateway, Web services and policy engine
- Scalable, reliable and modular architecture
- High-performance SSL/TLS TPS and throughput
- Low latency

Reduce IT Burden & Minimize TCO

- Modernizes secure administration of critical IT infrastructure using SSO, MFA and passwordless transient authentication
- Eliminates credential rotation for network infrastructure
- Centralizes privileged access control

Regulation & Compliance

- Credential management
- End-to-end encryption
- MFA
- Complete logging, reporting, and analytics

Zentry Security provides next-generation secure access solutions that improve security, productivity, visibility, and usability. Zentry empowers modern enterprises by delivering zero trust secure access from any device to any application or resource located on-premises or in the cloud.

Learn more at www.zentrysecurity.com

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