

Hillstone Zero Trust Network Access (ZTNA) Solution Introduction

February, 2023



Reshape.Security
Embrace Cyber Resilience

Digital Transformation Brings New Challenge To Network Security









Virtualization



Containerization



BYOD



Remote Access



loT



M2M

Rapid Changes In Network Bring New Challenges

Evolving Threat Landscape

Compliance Requirements

Data Protection

Changing Perimeter



Traditional Perimeters

- · Connect first, then authenticate
- Firewall based perimeter protection
- · Trust anything inside by default

Services BYOD BY

The disrupting Perimeter

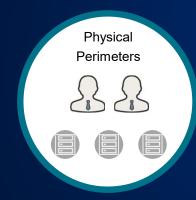
- · Out-of-date static FW policies
- Resource-intensive endpoint monitoring
- · No identity and context awareness

Challenges From Technology

- Cloud Computing
- Network Virtualization
- Known VPN vulnerability

Challenges From Business

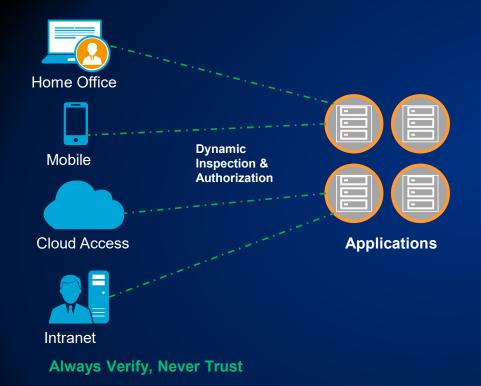
- Increased internal devices
- · Extended types of users
- Hybrid architectures



| See. Understand. Act.

ZTNA Matches The Evolving Business Requirements



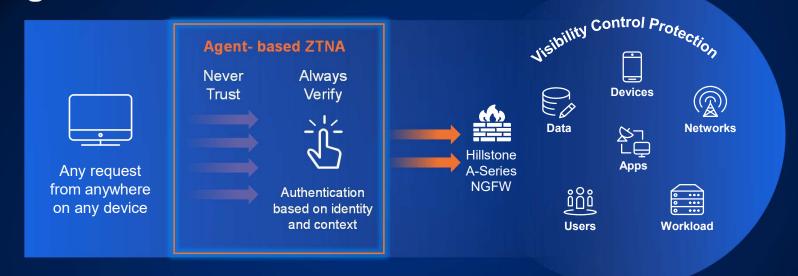


Hillstone ZTNA Brings

- Granular authentication before access
- Limited network connectivity& app exposure
- App-centric & policy-based authorization

Zero Trust Network Access (ZTNA) Solution Highlights





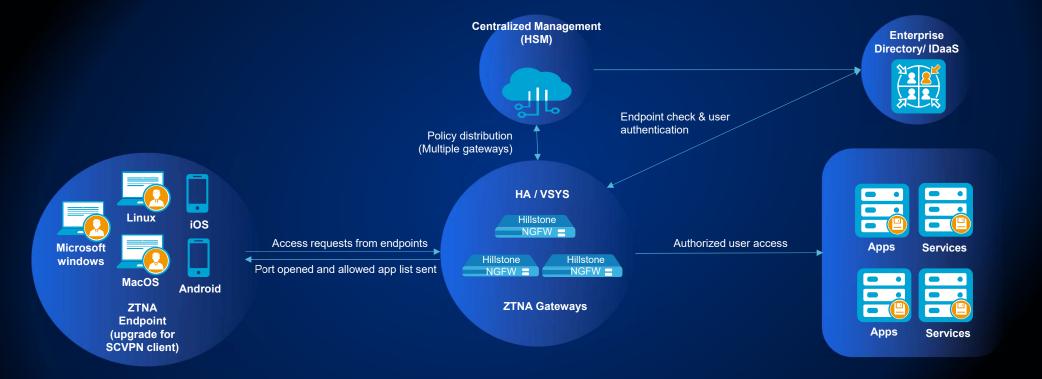


Highlights

- Identity-Based, Least-Privileged Secure Access
- Centralized and Efficient Management
- Context-Aware, Adaptive Access Control
- Award-Winning Enterprise-Grade Security Foundation

Hillstone ZTNA Solution Architecture



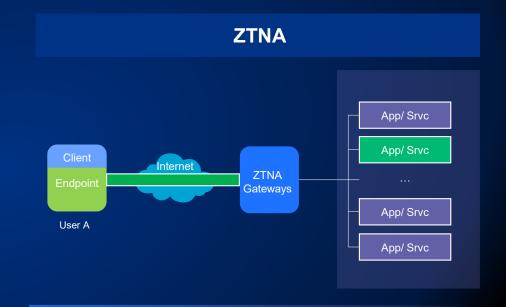


Identity-Aware, Least-Privileged Secure Access



Client Internet ZTNA Gateways User A App/ Srvc App/ Srvc

Default TrustedThe user's endpoint has the visibility to all the apps/services

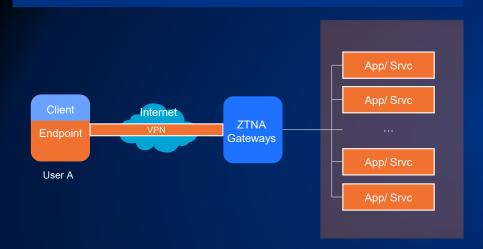


Identity-Aware, Least Privileged
user can only access the authorized apps/services
Single Packet Authorization (SPA) Support
reduce the attack surface and mitigate DoS attacks over TLS

Context-Aware Adaptive Access Control



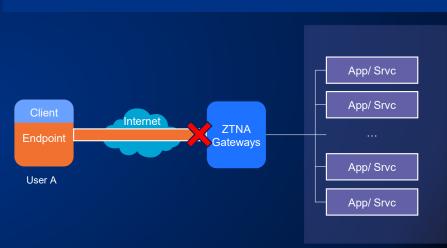
Traditional VPN



No context awareness

The attacker or malware can easily perform port/ IP scanning and attack the hosts and applications if the endpoint were compromised by spam/ phishing/malware.

ZTNA



Continuous Trust Evaluation

The ZTNA agent on the endpoint will monitor and evaluate the endpoint's status to see if it is secure for connection.

Once compromised, the endpoint will be blocked by the ZTNA gateway.

Award-Winning Enterprise-Grade Security Foundation





Hillstone Next-Gen Firewall Products Highlights



High Performance

Leading application layer performance meets real network security needs



Advanced Threat Prevention

Protection against known and unknown threats



Scalability as Needed

High-density ports
ensure excellent
access capability, while
large storage options
allow for deeper
analytics and better
visibility

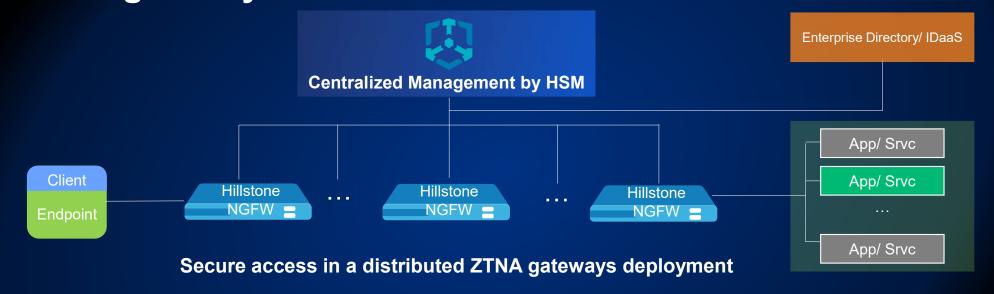


Smart and Automated Operation

Security operation made easy

Centralized and Efficient Management for ZTNA gateways





Integrated Device Management

Centralized ZTNA Policy Management Comprehensive Security
Monitoring

Comprehensive Endpoint Visibility





Monitor and evaluate the endpoint's status

- OS
- Patch
- AV

- DLP
- Time
- Location

Multiple mainstream OS support

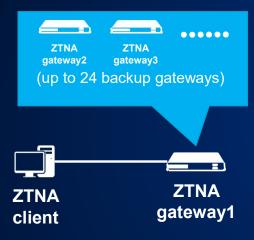
- Microsoft Windows
- Mac OS
- Linux

- iOS
- Android

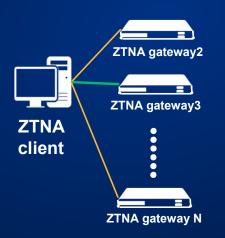
ZTNA Gateway High Availability (Multi-gateway)



Multiple GWs



Link quality detection



Multiple GWs

Failover when connecting



Client will automatically connect to the optimal backup gateway.

Failover when connected



Client will automatically switch to the optimal backup gateway without reauthentication.

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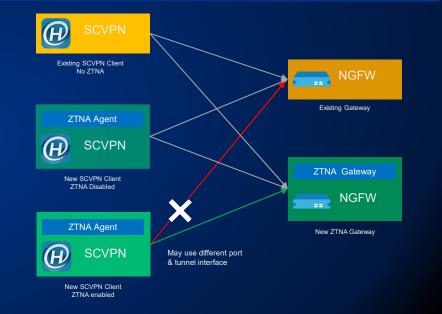
Smooth Transition To ZTNA



Just a Software Upgrade



Backward Compatible



- Support the same user authentication services (local, LDAP, TACACS+, Radius)
- Support two factors authentication
- Support NGFW HA and VSYS

Typical Use Cases



Remote Office & Mobile Worker

- only authorized devices are allowed to access with least privileges
- The OS is up-to-date & antivirus software is running
- Access will be blocked or limited once compromised
- Reduce the attack surfaces for this blended workplace strategy
- Protect corporate data/ resources/ assets from exposure or loss

Government Agencies / Regulated Industries

- The security policy with least-privileged access based on a need-to-know, need-to-access philosophy
- · Leverage multi-factor authentication and trusted devices for remote access.
- Aligns with the industrial compliance and strict security requirement
- · Protect critical data even in the face of potential device compromise

Partner Access

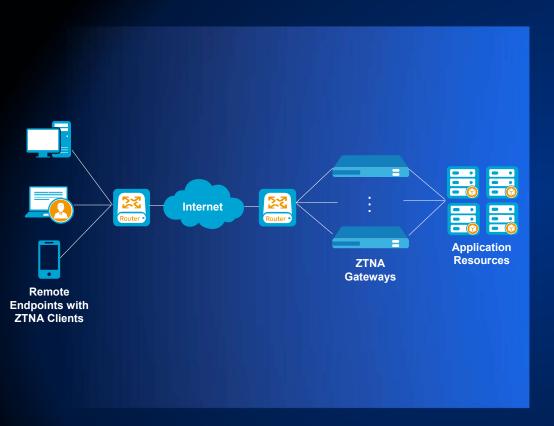
- Remote access to proper resources with a secure connection
- Protect the assets of Intranet while enabling necessary access
- Enable easy collaboration without compromising any security

Service Providers

- Enable ZTNA-based security services for customers of small-to-medium organizations.
- · Additional add-on security services beyond the reliable and secure
- Cost-effective solution without requiring in-house security experts

Customer Cases





Case 1

- **Customer profile:** Financial institution
- Challenge and requirement: Since some internal applications are quite sensitive, the access with the least privileges is highly needed to meet different access demands and limitations of various departments
- Hillstone solution: Deploy two NGFWs with 400 ZTNA licenses at the perimeter, working as ZTNA gateways. The zero-trust access helps further ensure access security.

Case 2

- **Customer profile:** Telecommunication enterprise
- Challenge and requirement: The enterprise has high requirement for remote access, because many departments are located in different places. And there are also some compliance requirements for the operating systems and endpoints, thus traditional SSL VPN can not be applied Hillstone solution: Deploy one data center firewall with 250 ZTNA licenses at the perimeter, working as ZTNA gateway. The application of ZTNA enables the zero-trust access of telecommuting for all employees

2023 ZTNA Roadmap





Intranet Access Support

- ZTNA clients connect to firewalls through intranet: supports users authentication without creating tunnels, distributing host routes, creating virtual NICs and assigning IP to the host
- Intranet access control: host information collection, terminal tags matching, ZTNA policy matching and control
- Access to whitelist configuration before authentication



Agentless Access Support

- Supports global portal for agentless access, applicable to scenarios including SSLVPN, ZTNA, and intranet access
- Supports application resources of HTTP/HTTPS proxy, and the application resources are invisible to end users

Security that Works!



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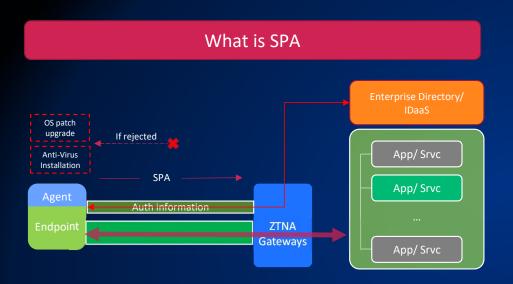






Single Packet Authorization





Benefits

- Reduce attack surface
- Mitigate DoS attacks over TLS
- Protect assets

