



TERMIDESK
CONNECT



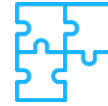
Termidesk Connect
Smart load balancing

Termidesk Connect:

Application delivery controller (ADC)



Virtual appliance



Rich business logic



Performance



Flexibility



High Availability



Simplicity

Use Cases:



Offload application functions



Scale up IT services



Organize geo distributed architecture for IT services



Help to achieve SLA for IT Services



Features

Traffic management

- Local Load balancing
- SSL Offload
- L3/L4/L7 Content Switching
- L7 modification
- WebSocket and other protocols
- Rich health-check logic
- PPv1/2
- L2/L3 DSR

Global Server Load Balancing (GSLB)

- Algorithms: RoundRobin, site nearest to user, IP hash etc
- EDNS/ECS
- Active/Active, Active/Standby topologies
- Rich health-check logic

High Availability

- Active / Standby architecture
- Files and configuration synchronization
- Condition based failover
- VRRP free
- Smart node management

Security and availability

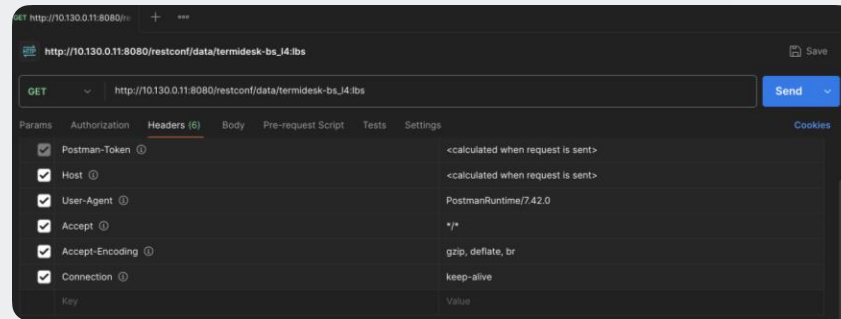
- Unified gateway for user connections (VDI)
- Secure connection between user and VM
- Support TLS 1.0/1.1/1.3

Integration and Management

- VLAN 802.1Q, LACP
- VRF, static routing
- BGP, OSPF.
- Route Health Injection

Configuration: CLI, web interface, API

CLI

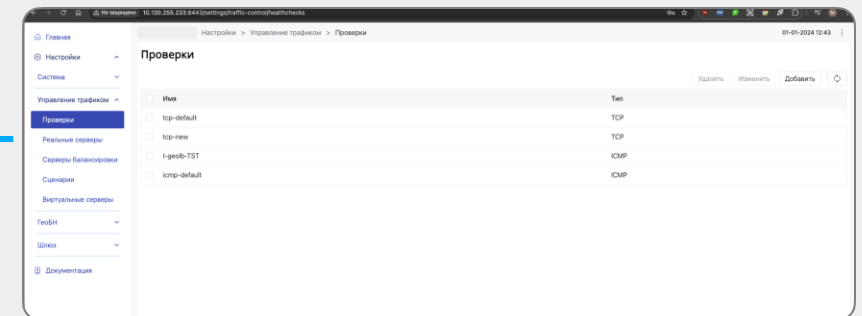


API

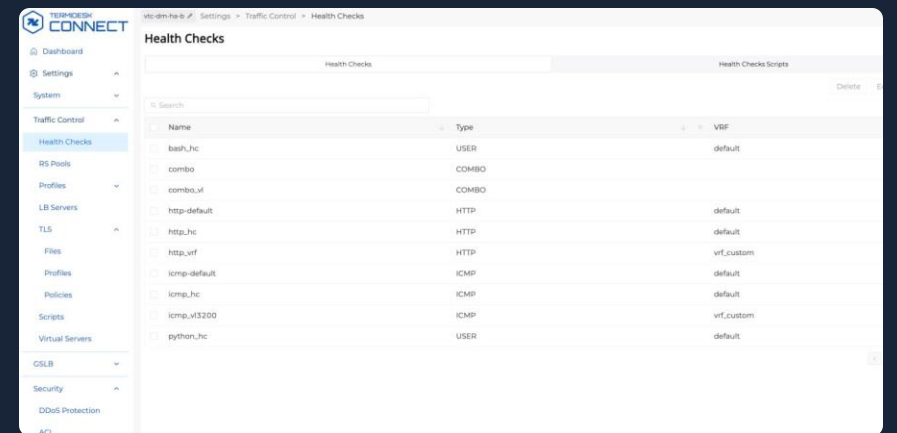
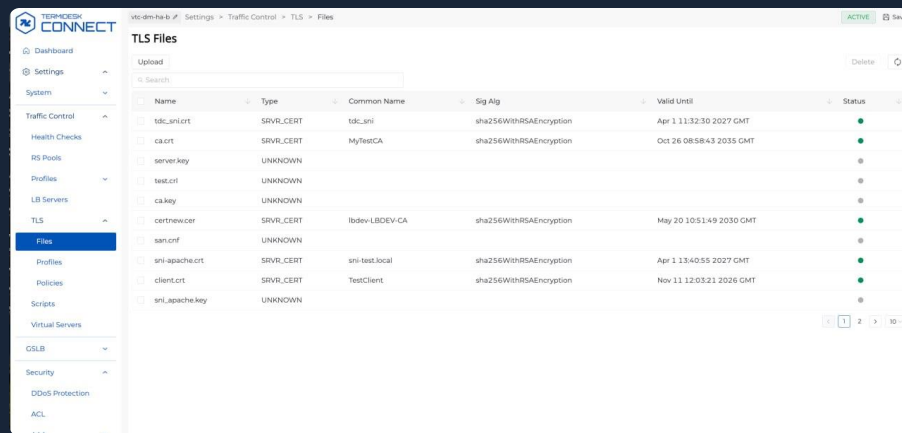
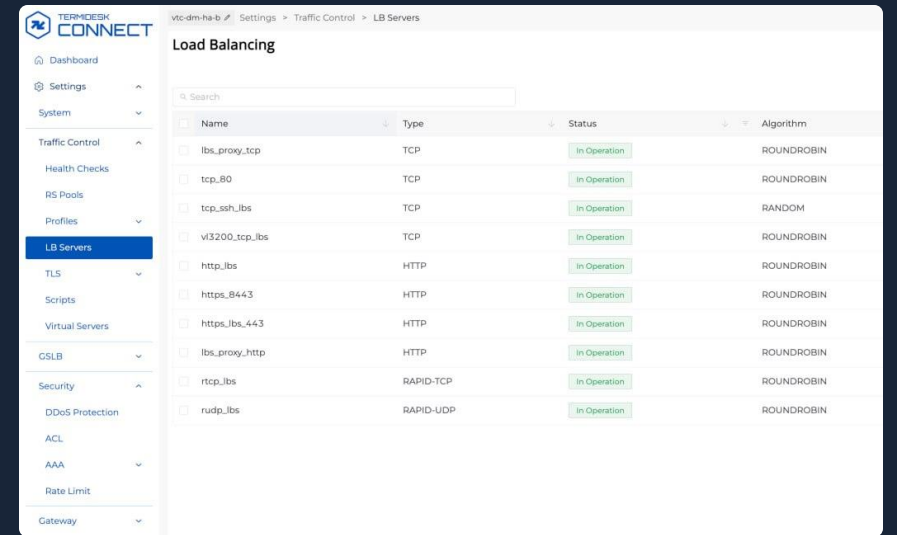
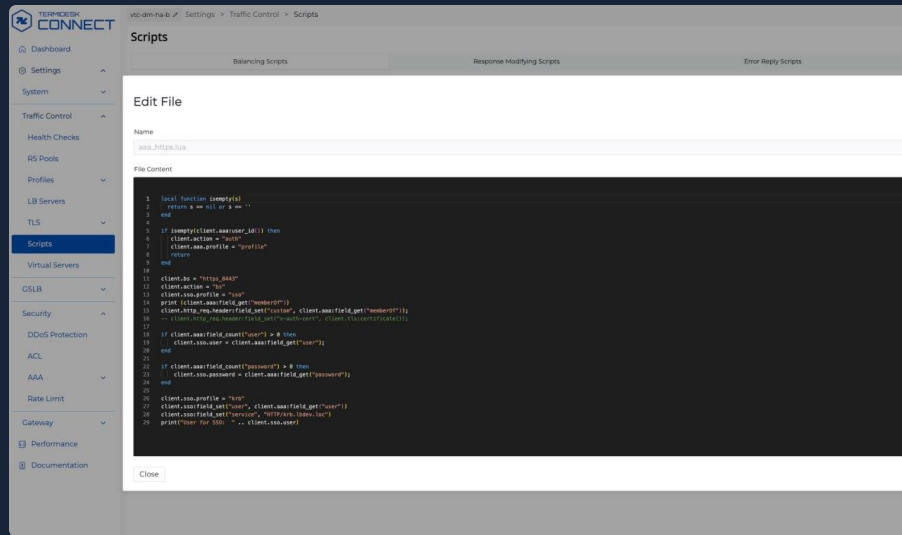
```
set lbs TCP lbs-01
set lbs TCP lbs-01 min-rs 1
set lbs TCP lbs-01 persistence IPSOURCE
set lbs TCP lbs-01 persistence IPSOURCE timeout 60
set lbs TCP lbs-01 algorithm LEASTCONNECTION
set vs TCP tcp-vs-01
set vs TCP tcp-vs-01 vip ip 10.140.226.237
set vs TCP tcp-vs-01 vip port 81
set vs TCP tcp-vs-01 check-lbs algorithm NONE
```



Web interface



Web User Interface



Business Scenarios for Termidesk Connect



Scaling Business Applications

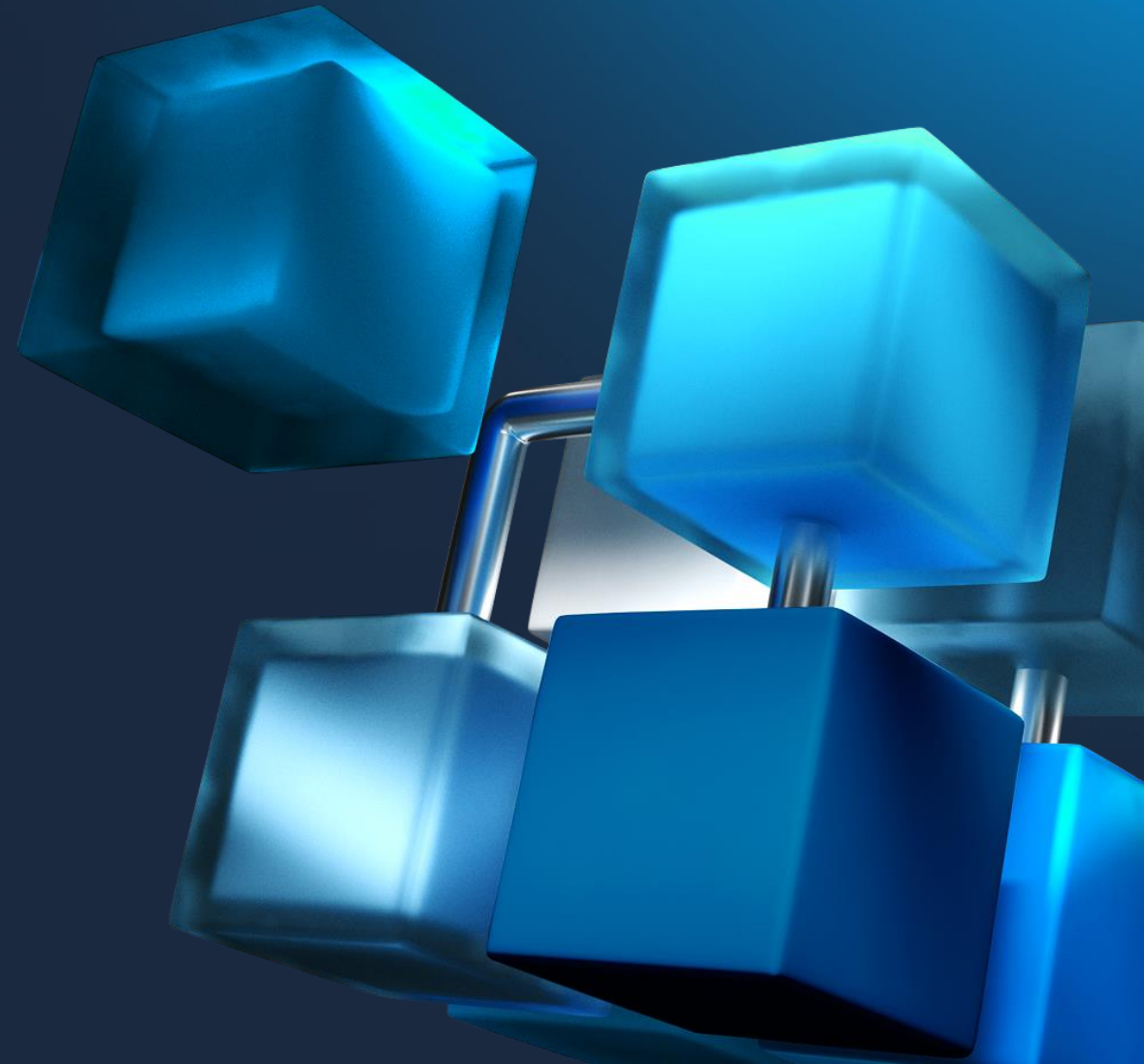
! Problem

The business application overloaded. Users complain about service unavailability, slow responses, and other performance issues

✓ Solution

By design, the ADC is built to scale infrastructure by providing a single point of entry. Technologies such as SSL Offload, TCP Offload, and others help reduce the load on individual application instances

*Application = Email, databases, web portals, telephony, etc



Geo-Redundancy for Applications

! Problem

The application is deployed across multiple data centers. Using L2 connectivity between sites creates challenges. Traffic needs to be evenly distributed between Data Centers

✓ Solution

GSLB functionality provides load balancing using flexible algorithms and performs application health checks

*Application = Email, databases, web portals, telephony, etc



Business Continuity

! Problem

With open-source solutions, scheduled application maintenance often results in service disruptions, effectively turning planned work into emergency downtime

✓ Solution

Advanced session management features include: forced temporary removing balanced server from the pool, graceful disable server preserving active sessions, multiple persistence methods, and more



Dynamic Changes to Business Logic with Minimal Cost

! Problem

Some web applications provide limited options for extending business logic, constrained by the lack of developer resources and the proprietary nature of the solution

✓ Solution

HTTP request and response modification: add or delete data to requests and responses or stripping away unnecessary information.



A/B Testing and Canary Releases

! Problem

The development team has released a new version of the interface. Deploying it to all users at once is undesirable — preliminary testing with a limited audience is required

✓ Solution

Termidesk Connect enables traffic distribution configuration: 95% of users are directed to the old version (v1.0), while 5% — either randomly or based on User-Agent — are directed to the new version (v2.0). Once testing proves successful, the traffic share directed to the new version is gradually increased to 100%



Content-Based Routing (Content Switching)

! Problem

Two applications reside on the same corporate domain: [site.com/images](#) (static content delivery) and [site.com/api](#) (business logic). These require handling by distinct server pools, each with its own independent settings

✓ Solution

Flexible configuration is achieved through Lua scripting or configuration policies



Persistence Support for Sticky Sessions / User-to-Server Affinity

! Problem

After authentication in the online banking system, user requests are routed to different servers when navigating between pages, resulting in session loss and the need for repeated authentication

✓ Solution

The system ensures that after authentication, the user is "sticky" to the server maintaining the session, based on IP address or cookie. All requests from that user are consistently routed to that same server until the browser is closed.



Auditing and Logging of Traffic

! Problem

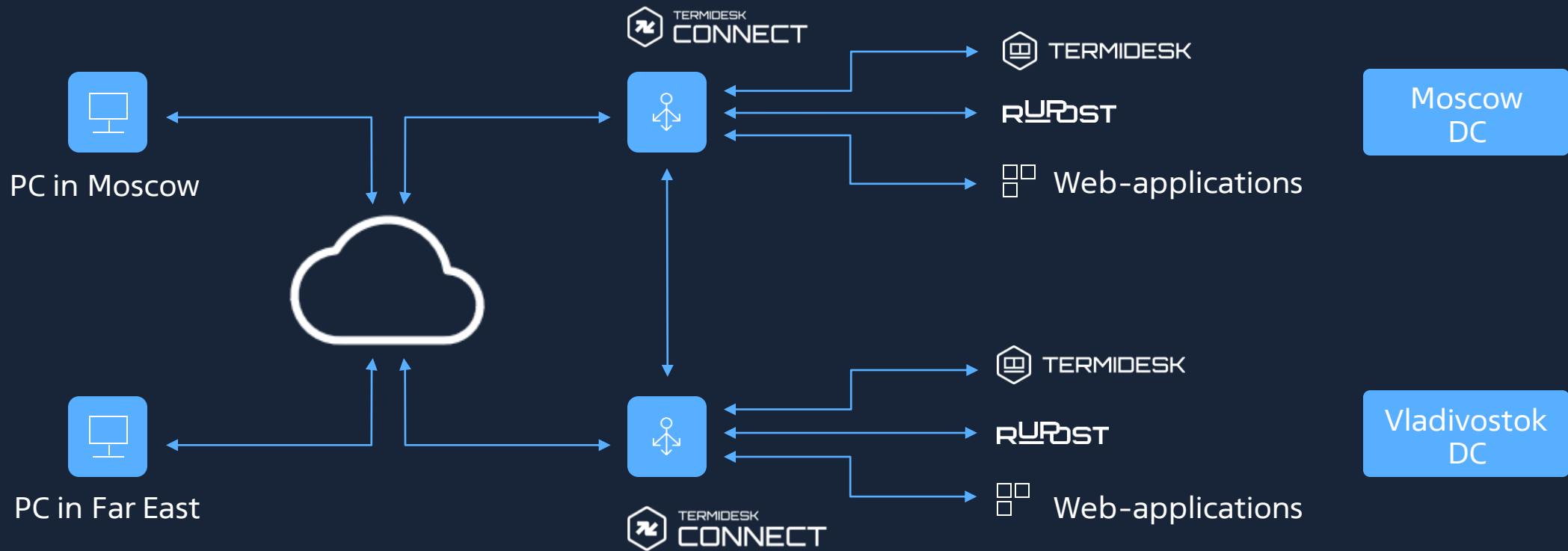
The information security team requires a comprehensive report of all access attempts to the information system, including user identity, timestamp, and source address

✓ Solution

Termidesk Connect serves as a unified traffic gateway, capturing detailed logs of all connections (authentication attempts, data volume, session time) and sending them to SIEM systems



Architecture



Licensing

Termidesk Connect - 1	Termidesk Connect - 2	Termidesk Connect - 4	Termidesk Connect - 10	Termidesk Connect - 16	Termidesk Connect - 20
1 vCPU	2 vCPU	4 vCPU	10 vCPU	16 vCPU	20 vCPU

Termidesk Connect licensed by vCPU amount, without limitations for features or parameters

Advantages of Termidesk Connect



High availability

High availability of product components and business applications



Flexible management

Ability to manage device from web-interface, CLI or using API



Performance

Different operation's modes with clients' connections



Functionality

High-level programming language for setting rules and defining policies



Business scaling

Fast publication of new services, changing and adding new business logic in application



Business continuity

Improving quality of IT-services delivery



TERMIDESK
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<https://t.me/termidesk>



<https://termidesk.ru/>

Thank you!

