

KERIO FIREWALL

Umut GEÇER

İçerik:

- 1) Kerio Firewall Kurulumu**
- 2) Kerio Aracılığıyla RDP**
- 3) Guest Network Kurulumu ve Giriş Sayfası Tasarımı**
- 4) Bazı Sitelere Erişimi Yasaklama ve Başka Sayfaya Yönlendirme**
- 5) Kerio ile Site-to-Site VPN**
- 6) Kerio ile IPSec Tunneling**

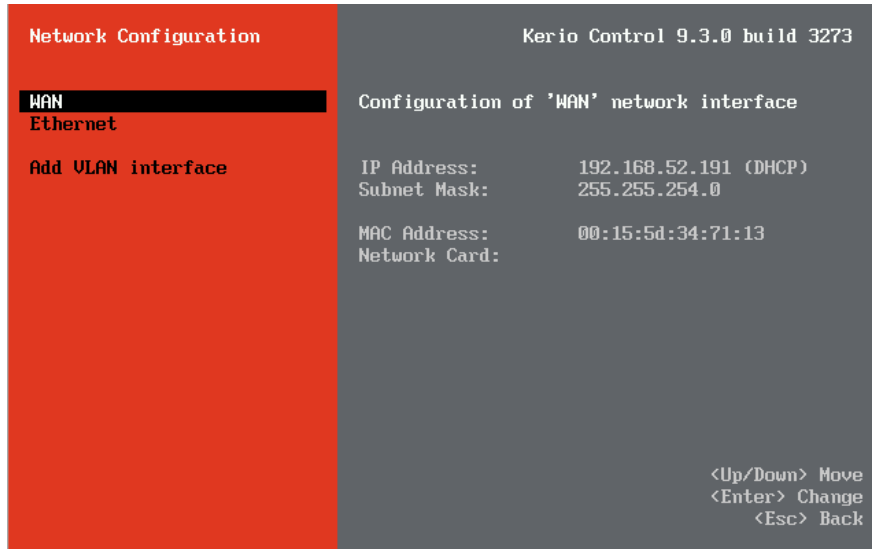
1) Kerio Firewall Kurulumu

Bir external, bir internal olmak üzere iki adet NIC, 2 GB Ram, 35 GB Disk boyutuyla kurulumu başlarız.

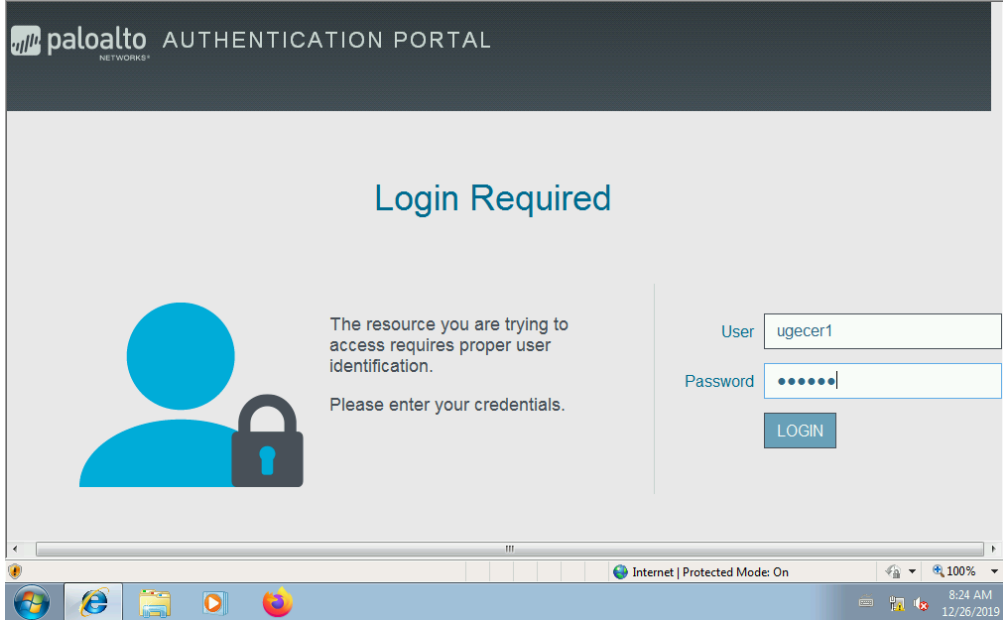
- 1) F8
- 2) 135 kodunu gir
- 3) Reboot at



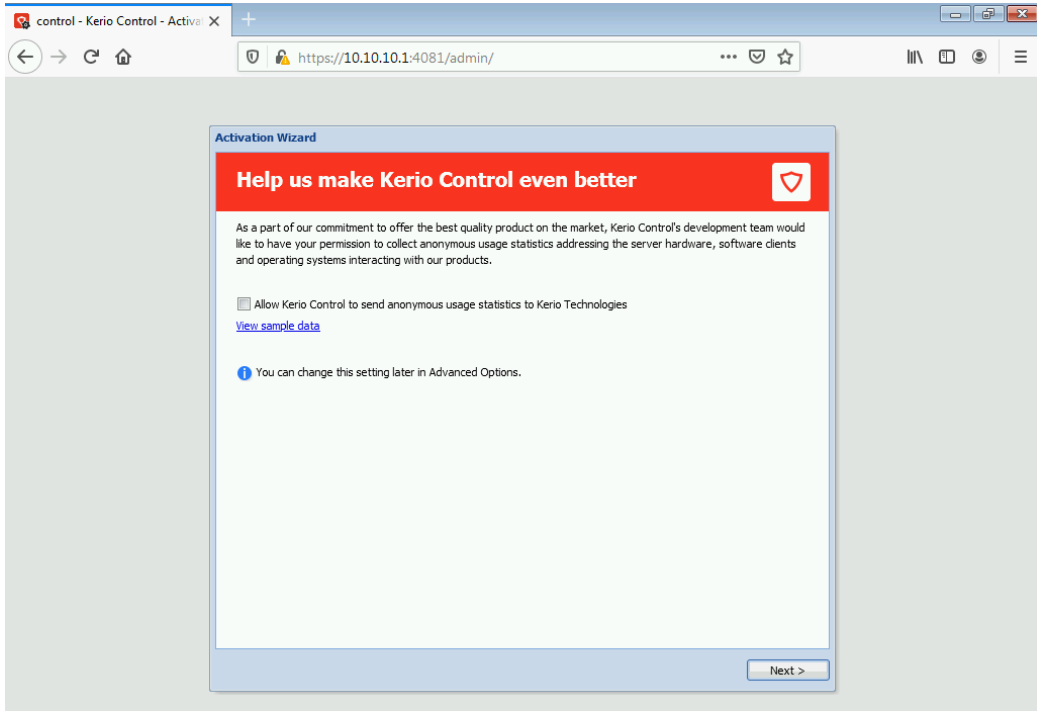
Internal ağ kartının adresi.



External (WAN) IP adresi.



Thin Client'ımızda WAN ağı üzerinden eriştiğimiz portaldan internete giriş yaparız.



ThinPC>Firefox> Internal adresimizi yani 10.10.10.1:4081 adresini gireriz: sonra bu sayfada tiki kaldırırız ve next deriz.

Administrator account

Please set a password for the administrator user account:

Username: Admin

Password:

Confirm password:

☐ Do you want to receive alerts?

Email address:

☒ Allow remote administration from MyKerio cloud service

☐ Open MyKerio and add this appliance after you finish

! Kerio Control cannot reach MyKerio right now. Please go back to these settings in Remote Services.

< Back Finish

Şifre belirleriz.

Dashboard

Interfaces

Traffic Rules

Intrusion Prevention

Security Settings

Bandwidth Management

Content Filter

Proxy Server

Antivirus

DHCP Server

IPv6 Router Advertisement

DNS

Routing Table

Accounting and Monitoring

Remote Services

Advanced Options

High Availability

Users and Groups

Users

Groups

Domains and User Login

Dashboard

Kerio News

System

Visit the [GFI upgrade center](#) to keep up to date with

System time: 06:28:23
9.3.0 build 3273
control

00:11:03
Update available. [Go to Update Checker](#)
Update failed. [Go to Antivirus](#)
Update failed. [Go to Intrusion Prevention](#)
Working properly
Not activated. [Go to Applications and Web Categories](#)
Working properly
Working properly
Disconnected. [Go to Remote Services](#)

RAM: 200.38 MB of 1.96 GB used
CPU: 1.75%

Status: Up
Current Rx: 104 KB/s
Current Tx: 4 KB/s

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Add Title

Configuration Assistant... Suggest Idea... Contact Technical Support...

Configuration Assistant

[Configure Internet connection and the local network...](#)
Choose a persistent Internet connection, Link Load Balancing or Failover.

[Define traffic policy...](#)
Configure basic traffic rules simply with few clicks.

[Export your configuration...](#)
Save the configuration into a file which can be used as a backup.

[Import configuration...](#)
Use the exported backup file to restore the configuration.

[Update license info...](#)
Upload license key, change license number or update your registration info.

☒ Show automatically after login

Close

Kullanıcı adı: admin

Şifre: Password1

Portala giriş yaptık. Configure Internet tıklarız.

Connectivity

?

×

Connectivity

Select your connectivity mode:

☒ Single Internet link

☐ Two Internet links with load balancing

☐ Two Internet links with failover

Connectivity

?

×

Single Internet Link

Internet Link

Interface:

WAN

▼

Mode:

Automatic

▼

The IP address, network mask, DNS server and Gateway will be assigned by DHCP. Please make sure a DHCP server is correctly configured on your network.

Connectivity

?

×

Local network

LAN

Interface:

Ethernet

▼

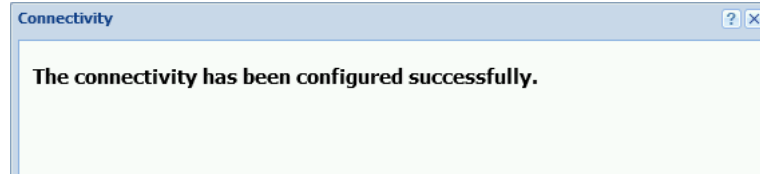
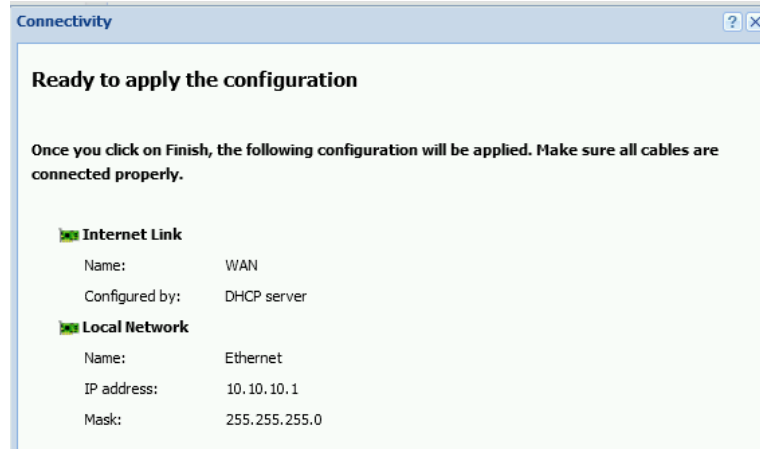
IP Address:

10.10.10.1

Mask:

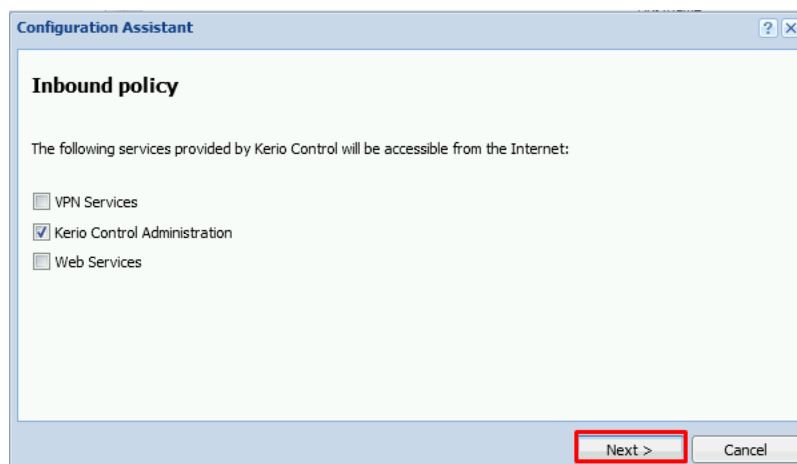
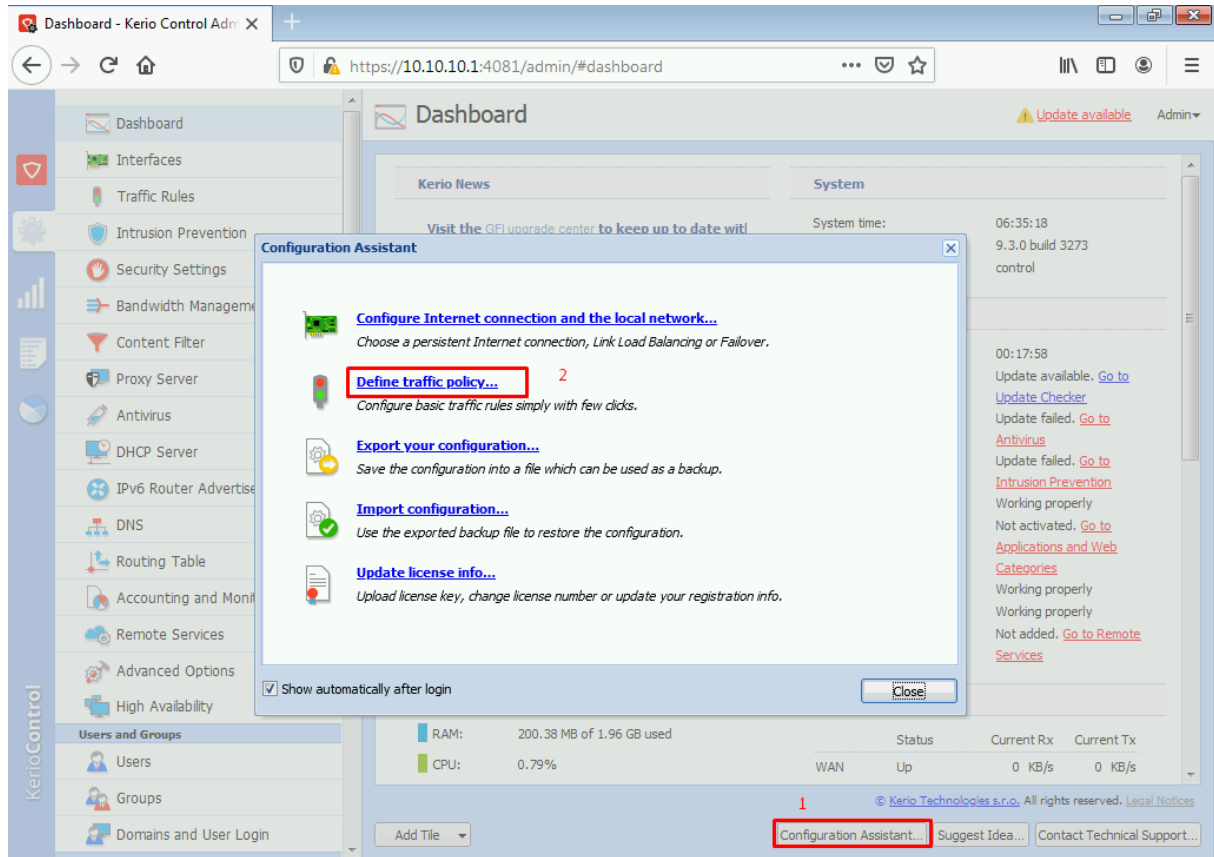
255.255.255.0

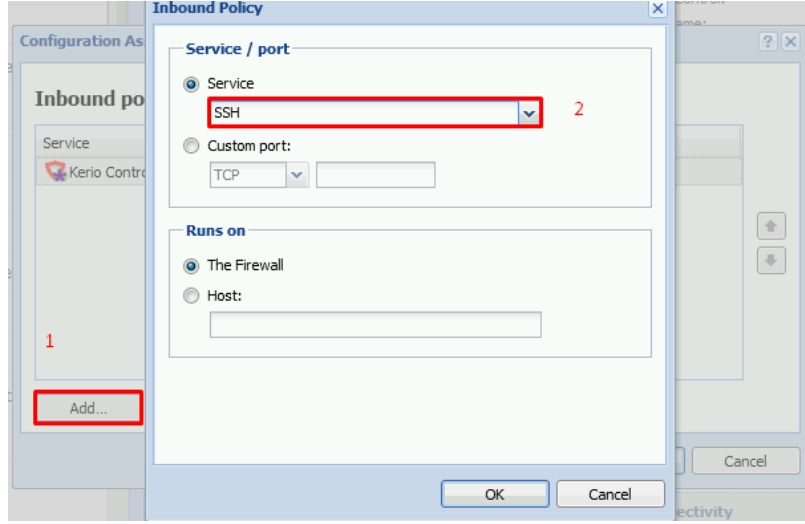
☒ Use DHCP for clients



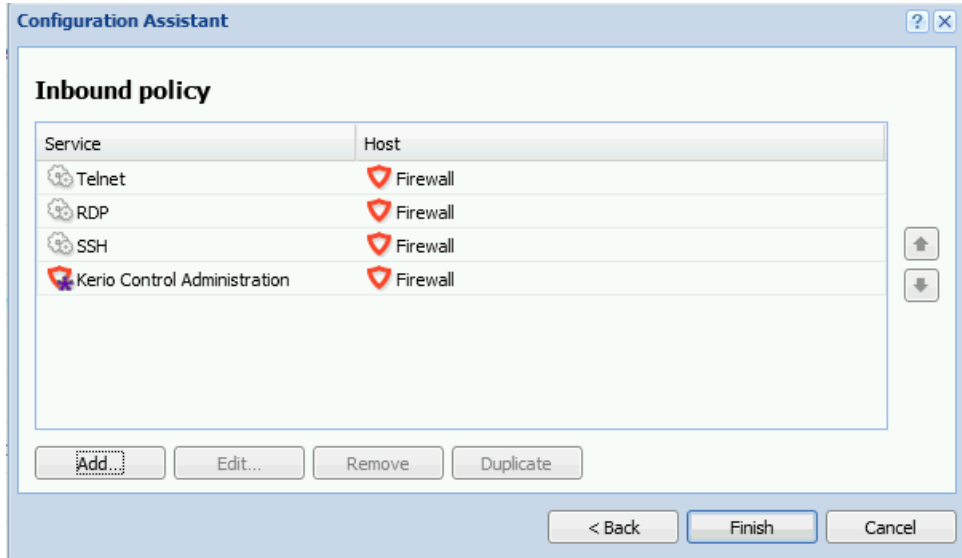
Ağlarımızda gerekli konfigürasyonları tamamlarız.

2) Kerio Aracılığıyla RDP

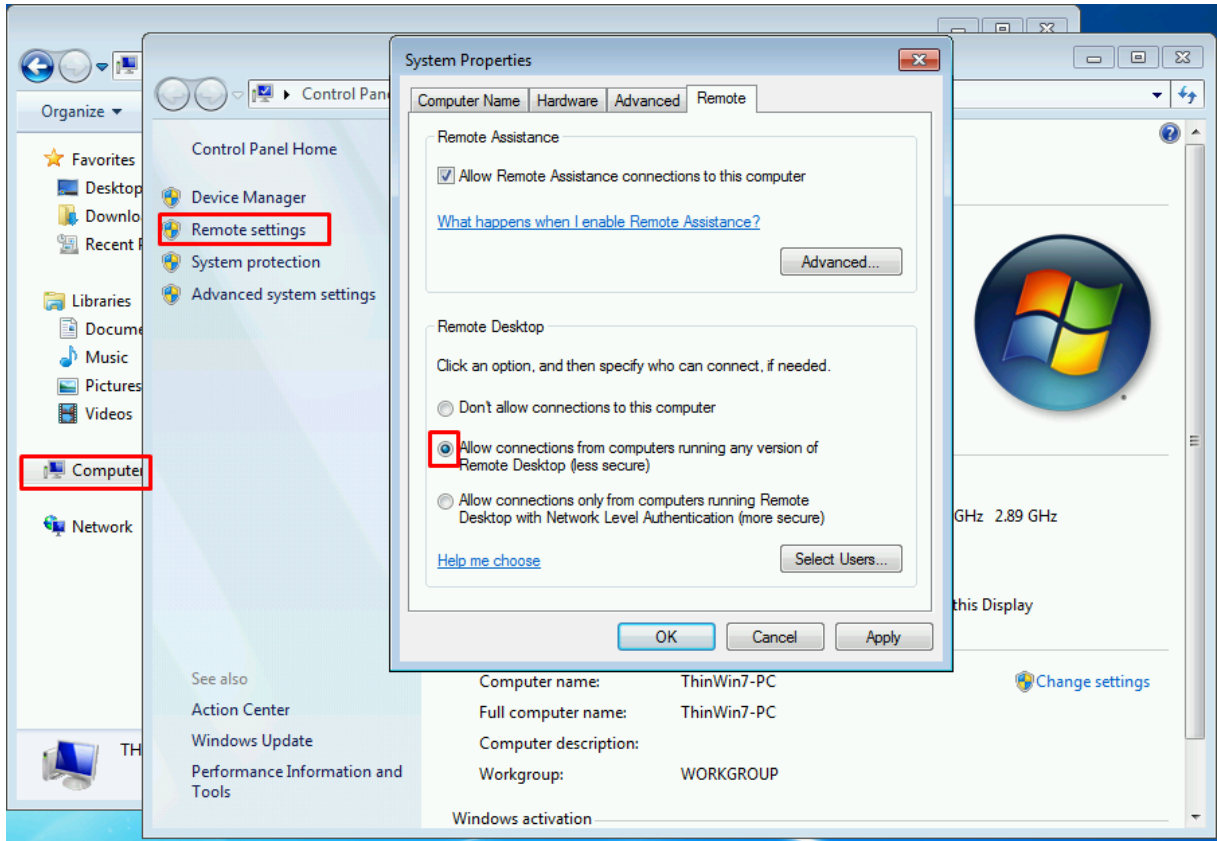




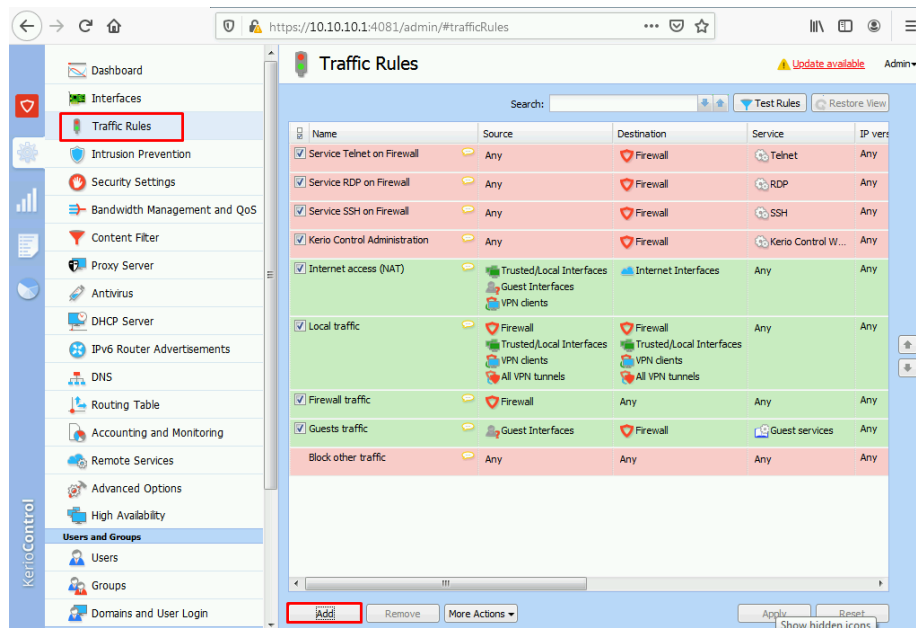
Bu pencereden SSH, Telnet ve RDP'yi teker teker ekleriz.



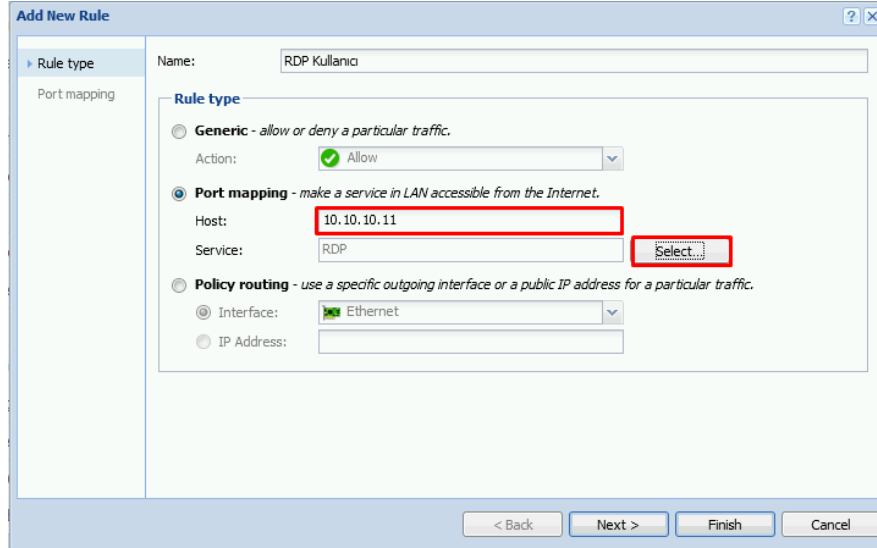
Bu prokollerin eklendiğini ve listelendiğini görürüz.



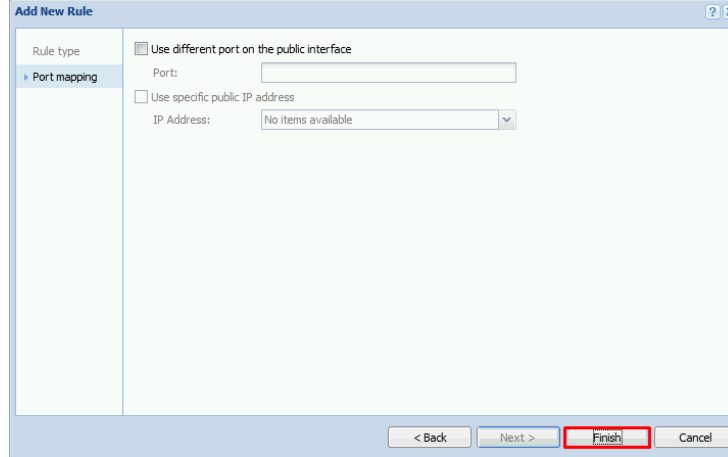
Computer sağ tık > Manage > Remote Settings diyerek Remote access izni vermiş oluruz.



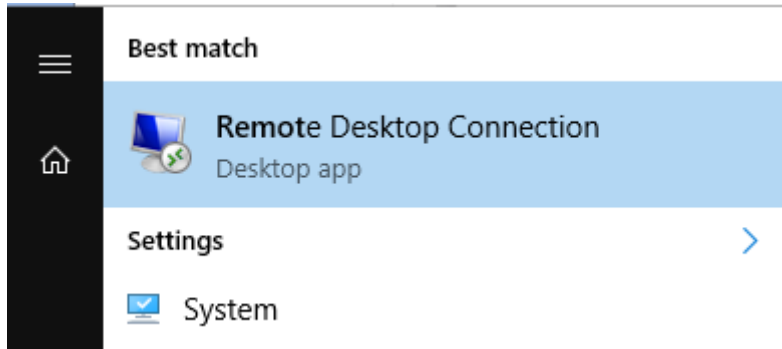
Yeni bir kural eklemek için Traffic Rules > Add deriz



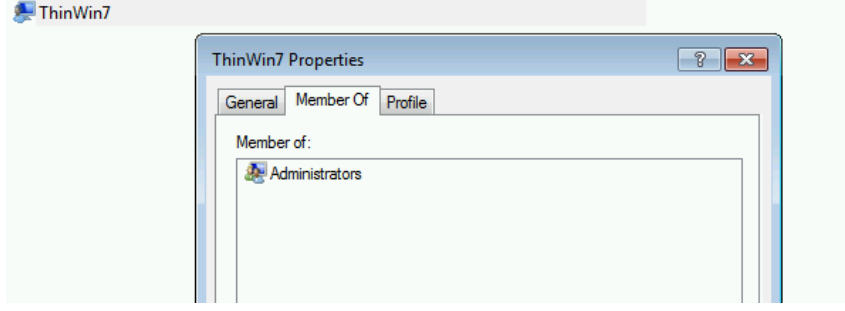
Thin Client'ımızın IP'sini gireriz.



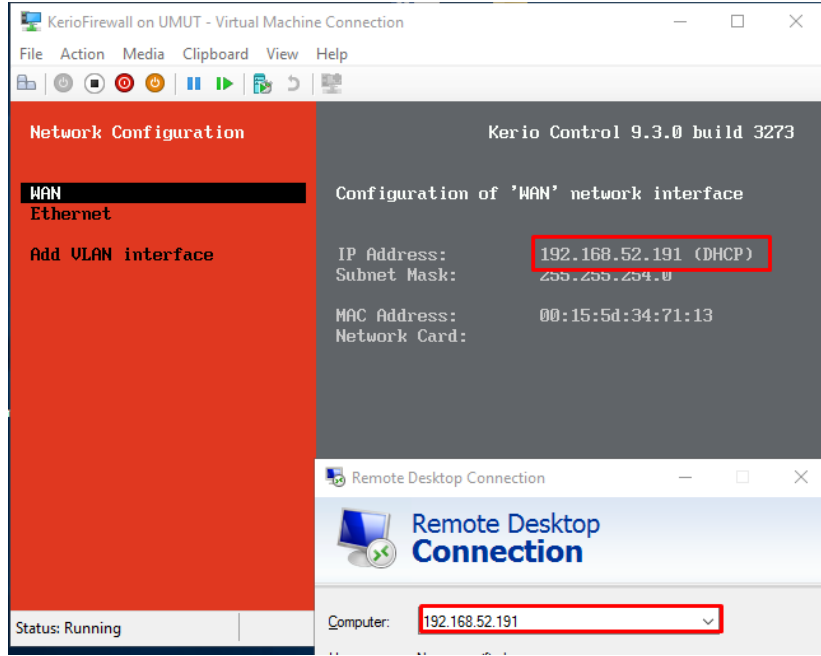
Port Mapping yani başka bir deyişle Port Forwarding işlemini tamamlarız.



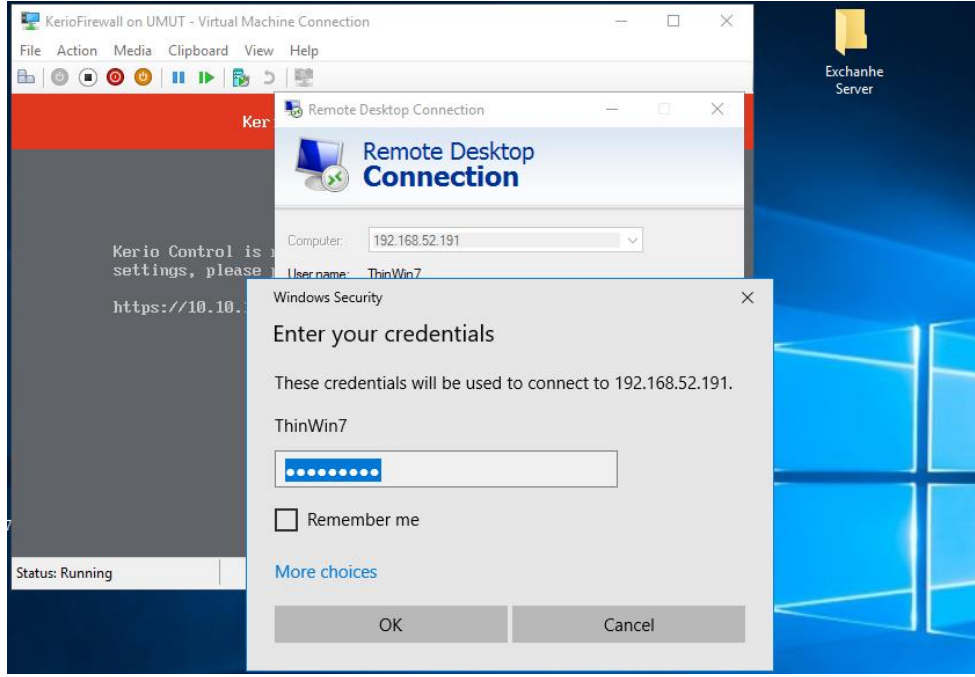
Fiziksel bilgisayarımızdan Remote Desktop Connection uygulamasını açarız. Thin Client'ımızdan Administrator yetkisi olan herhangi bir oturumumuza giriş yapmayı deneyeceğiz.



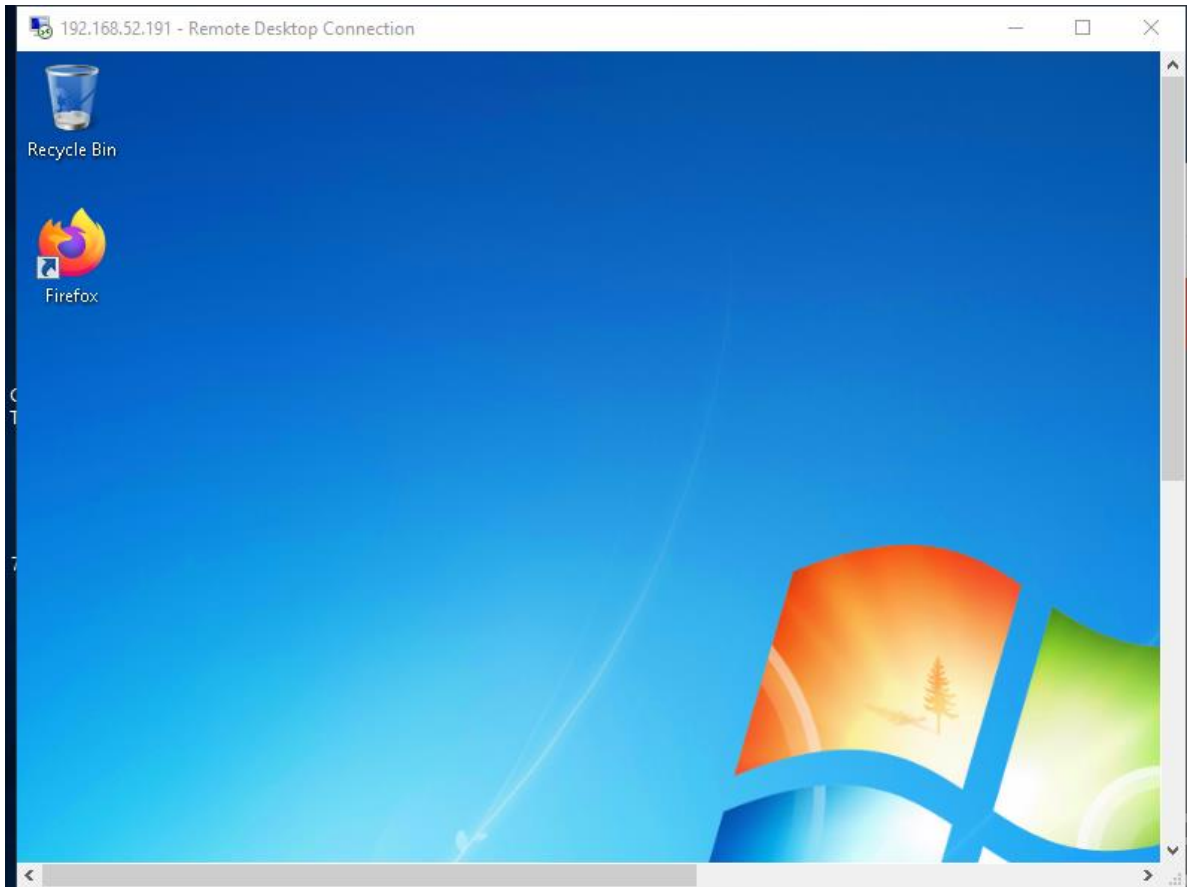
ThinWin7 oturumu bu işlem için uygun.



WAN ağımızın IP'sini, fiziksel cihazımızda remote desktop uygulamasına gireriz



Remote Access için uzaktan erişeceğimiz thin client'tan admin yetkisine sahip bir oturumun ismini ve şifresini gireriz.



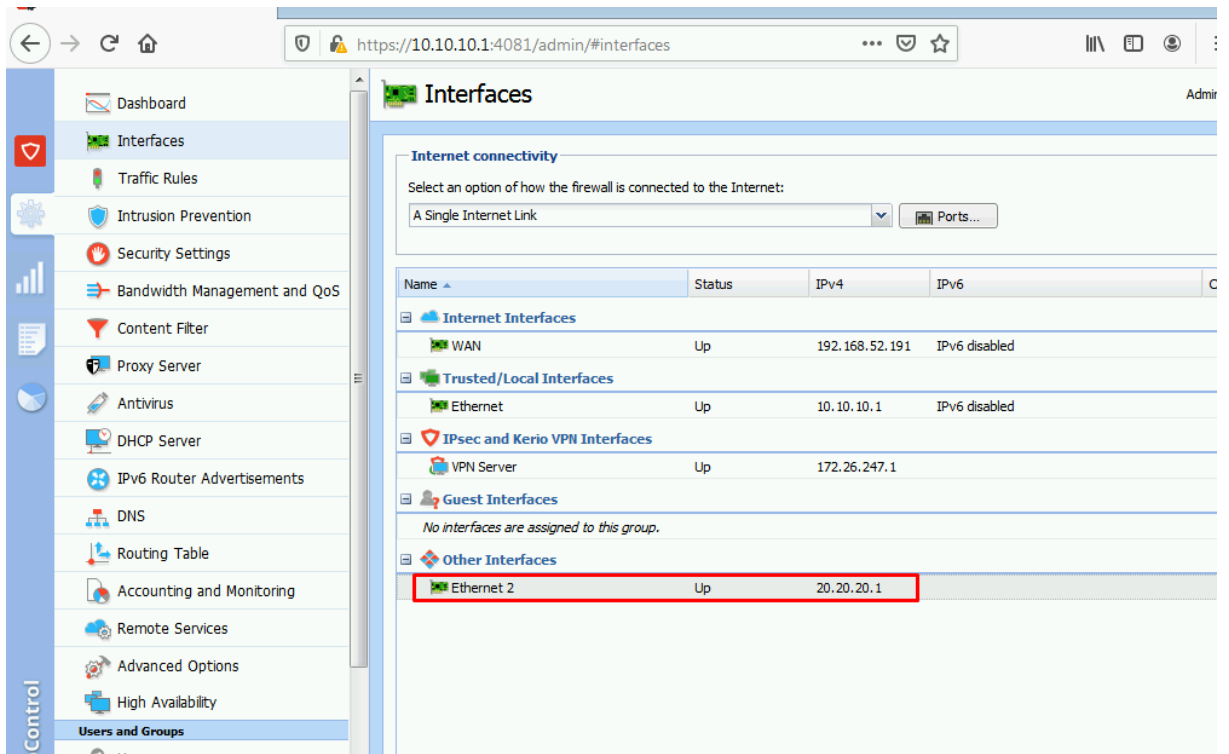
Ve erişimimiz sağlandı

3) Guest Network Kurulumu ve Giriş Sayfası Tasarımı

Guest Network;

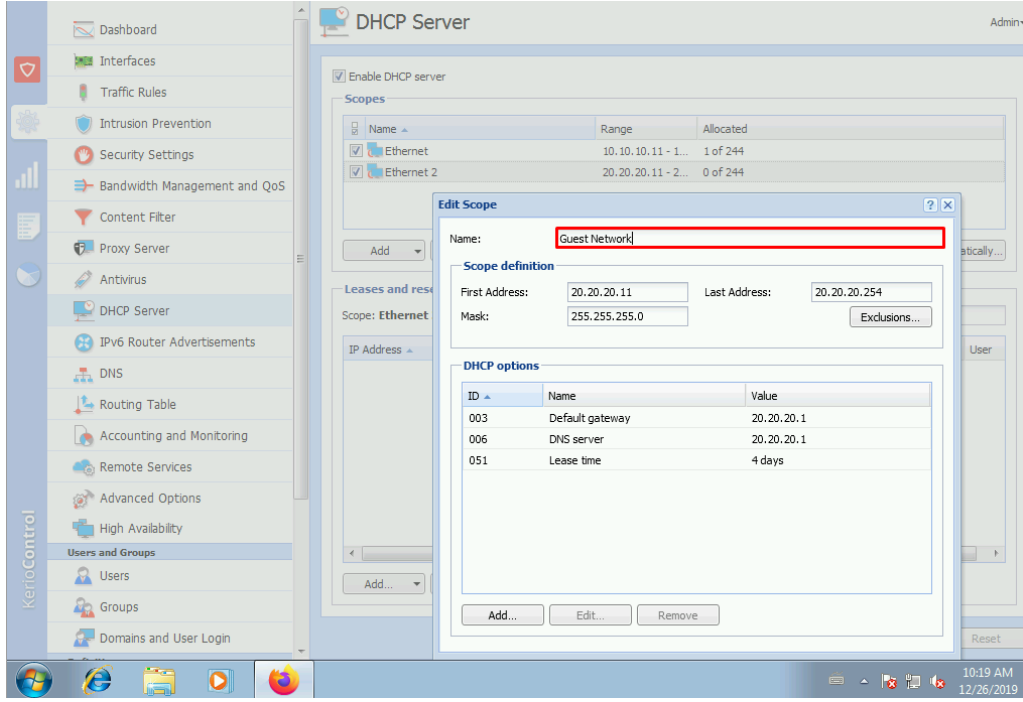
İçerideki LAN'a erişmeden internete erişebilmek için oluşturduğumuz servistir.

Kerio firewall shut down edilir ve bir tane daha internal ağ kartı eklenir.

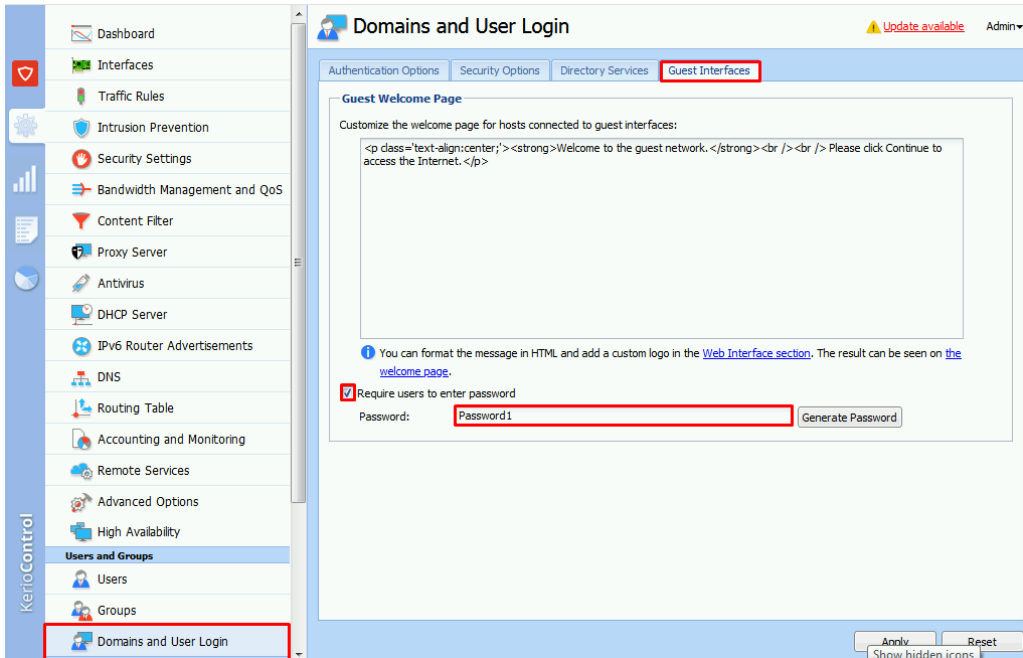


Oluşturduğumuz ikinci internal NIC'in listelendiği gözlemlenir.

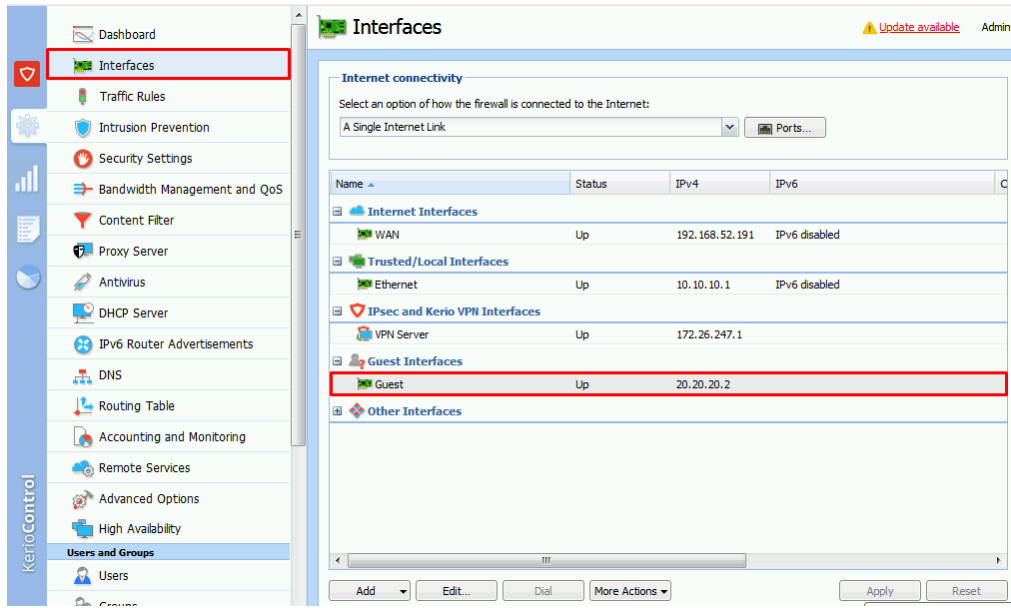
Sol listedeki DHCP Server > Ethernet 2 > Click to configure scope... tıklarız. Sonra:



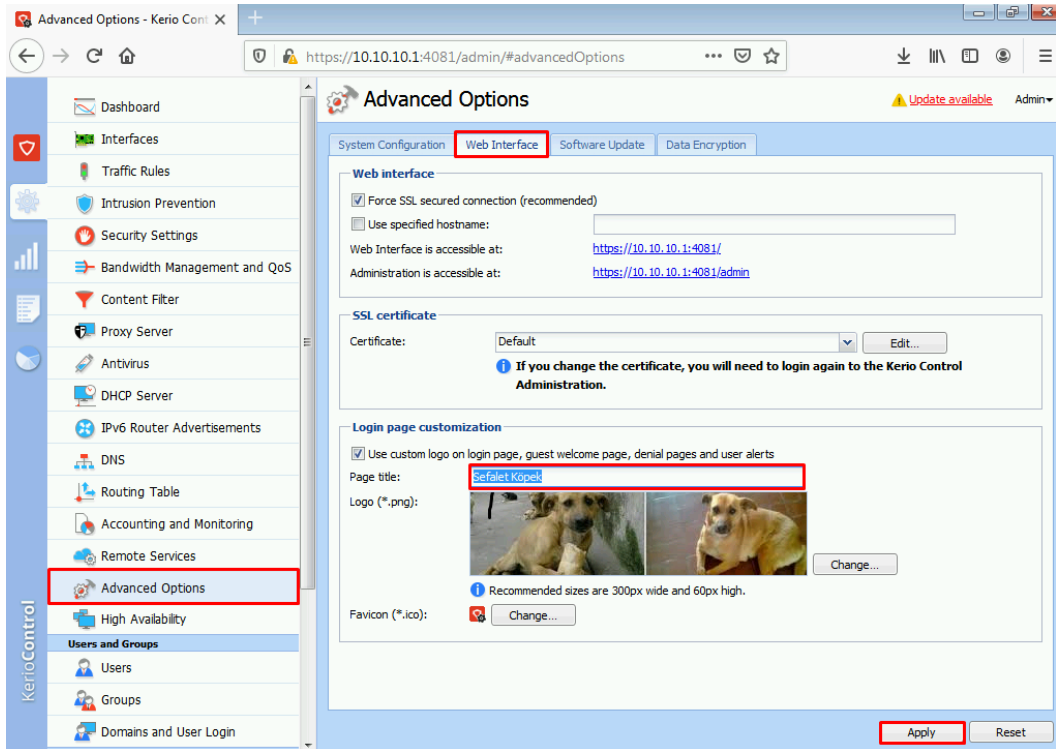
Networkümüzün adını Guest Network yaparız.



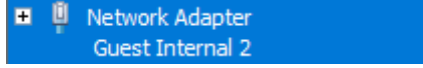
Bu sayfaya gelinir. Ağa katılmak için userların şifre girmesi istenir.



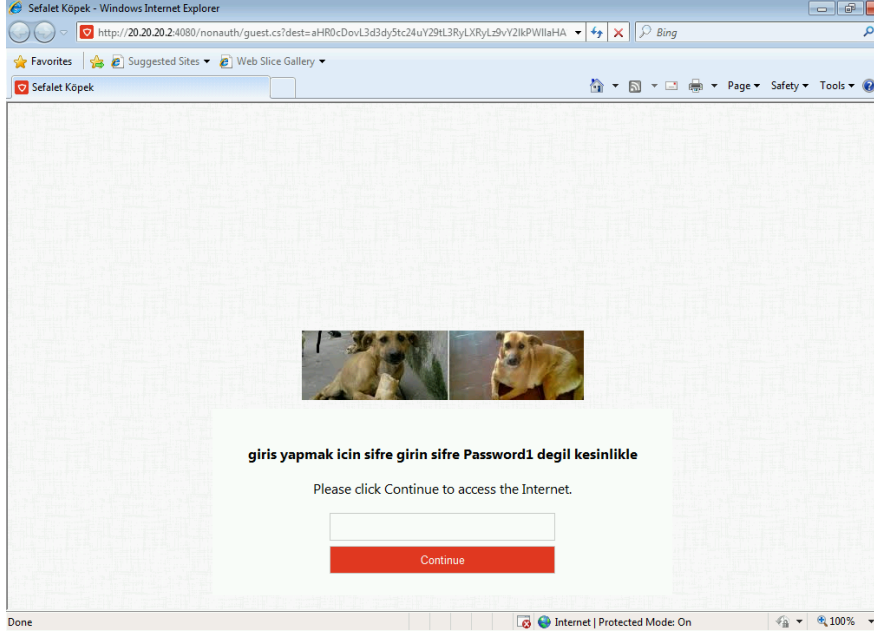
Guest ağımızı Interfaces kısmında Guest Interfaces kısmına sürüklemeyli UNUTMAYALIM.



Guest Network sayfasında hoşgeldin yazısı ve görseli tasarımı.

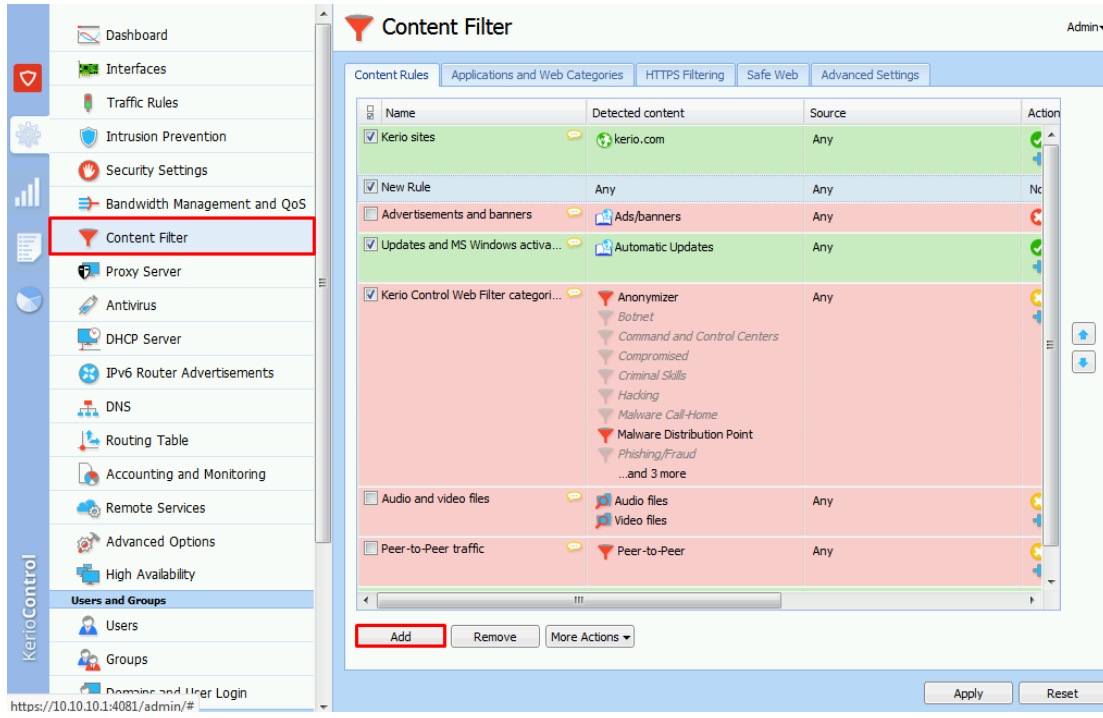


Thin Client'ımızın NIC'ini, 10 lu network olan NIC'den, 20 'li network olan Guest ağının NIC'ine geçirdik.

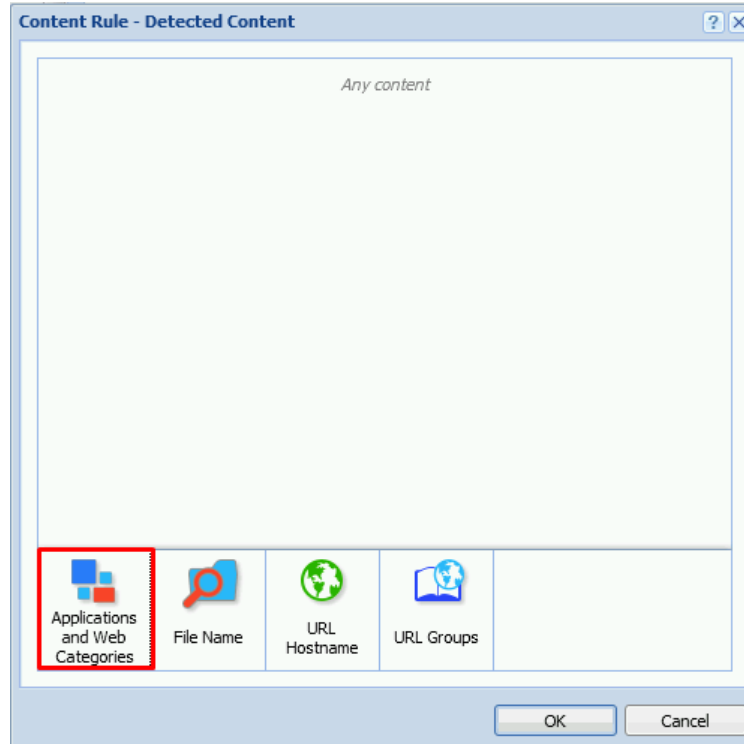


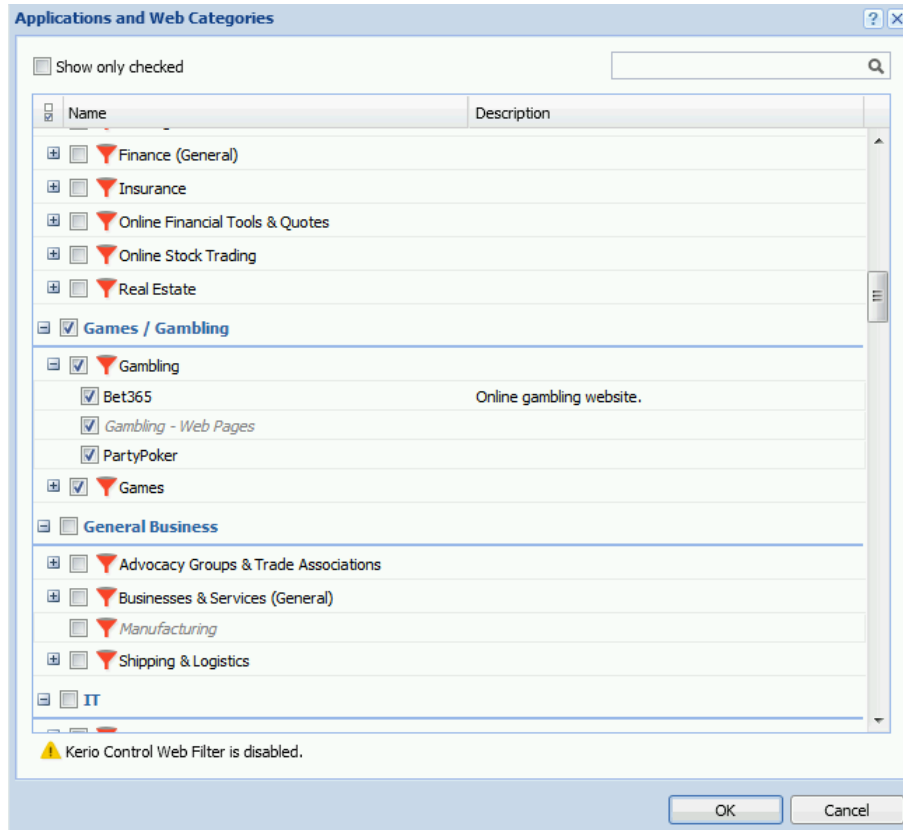
İnternet explorer açtığımızda direkt olarak authentication sayfası geldiğini görürüz.

4) Bazı Sitelere Erişimi Yasaklama ve Başka Sayfaya Yönlendirme

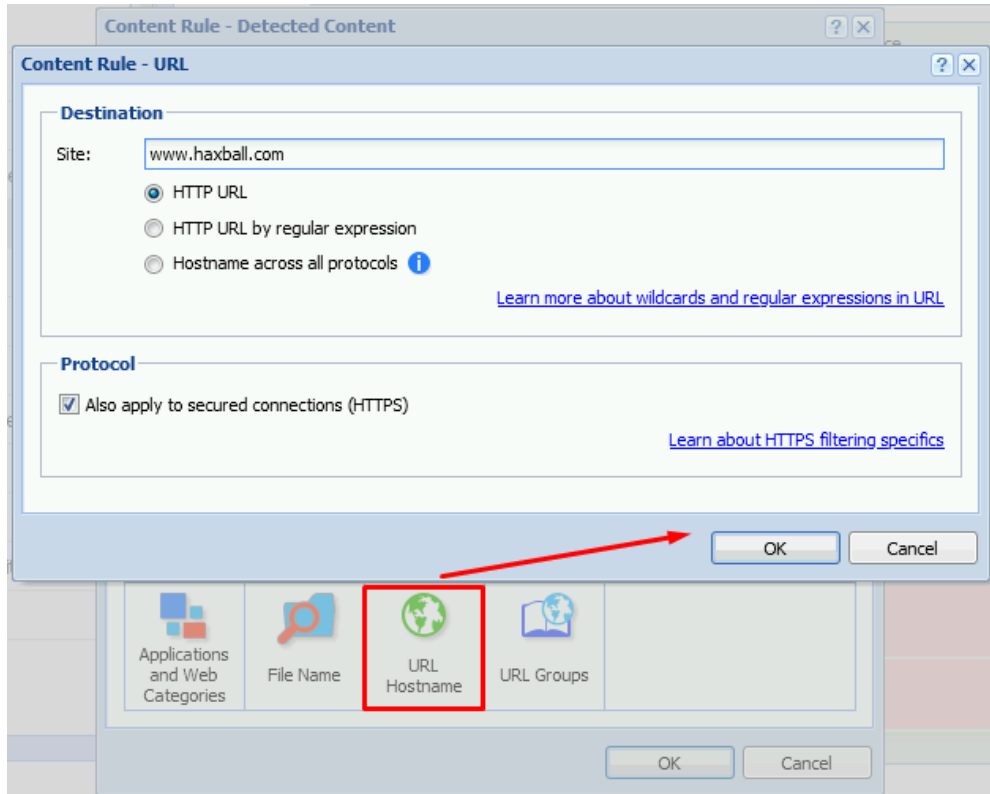


Content Filter sekmesinden Add butonuna tıklarız.

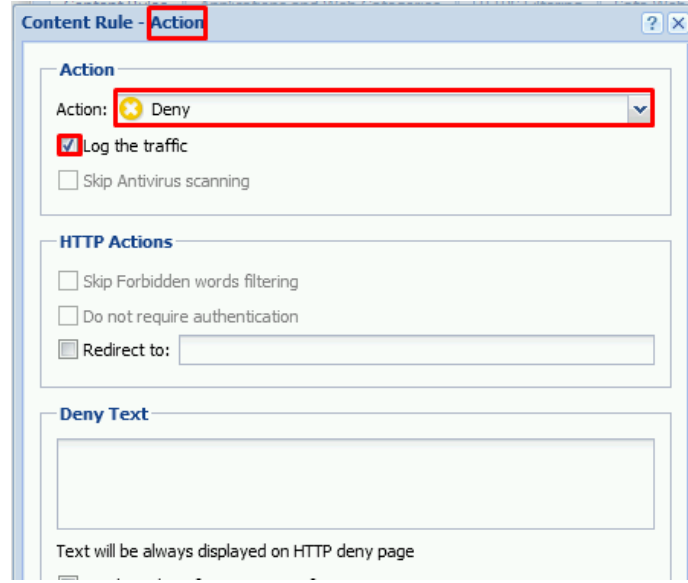




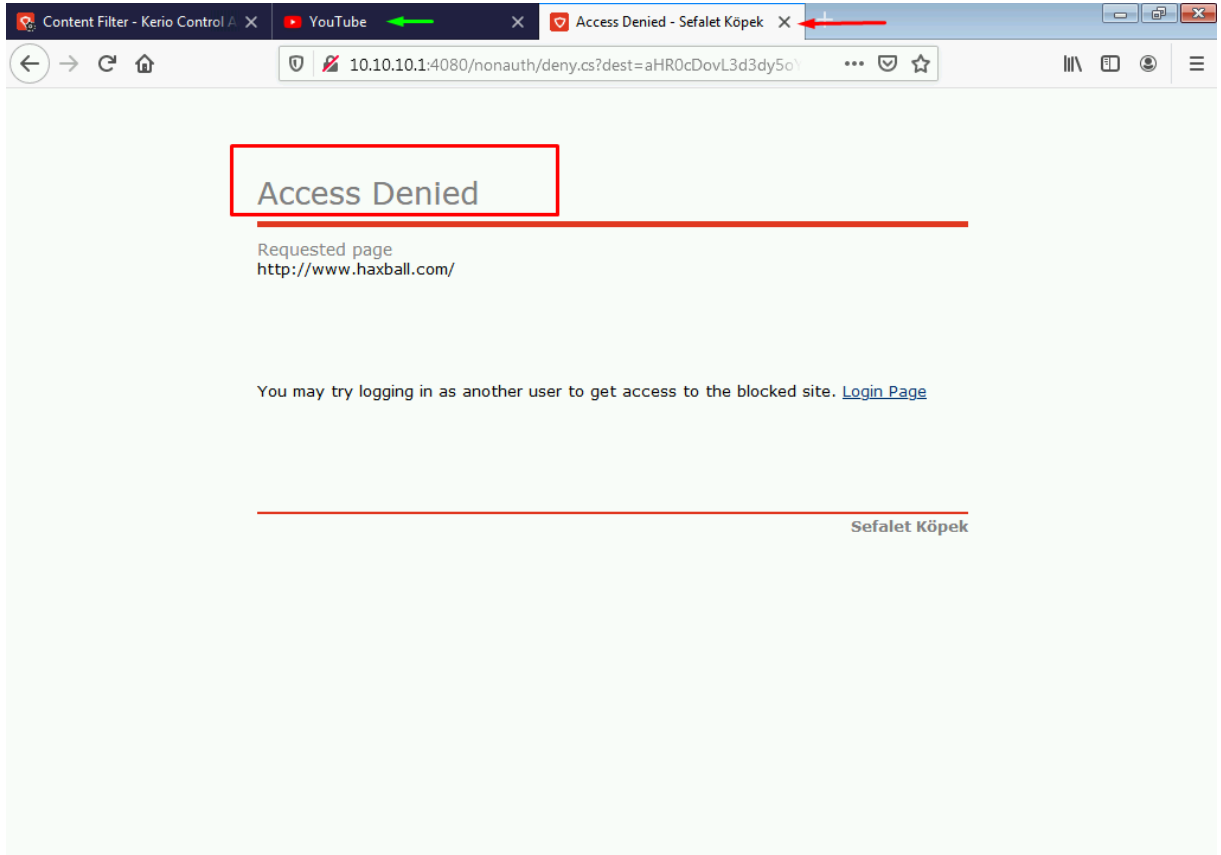
Bir oyun sitesinin erişimi engellemeyi seçelim, Games butonuna tıklarız.



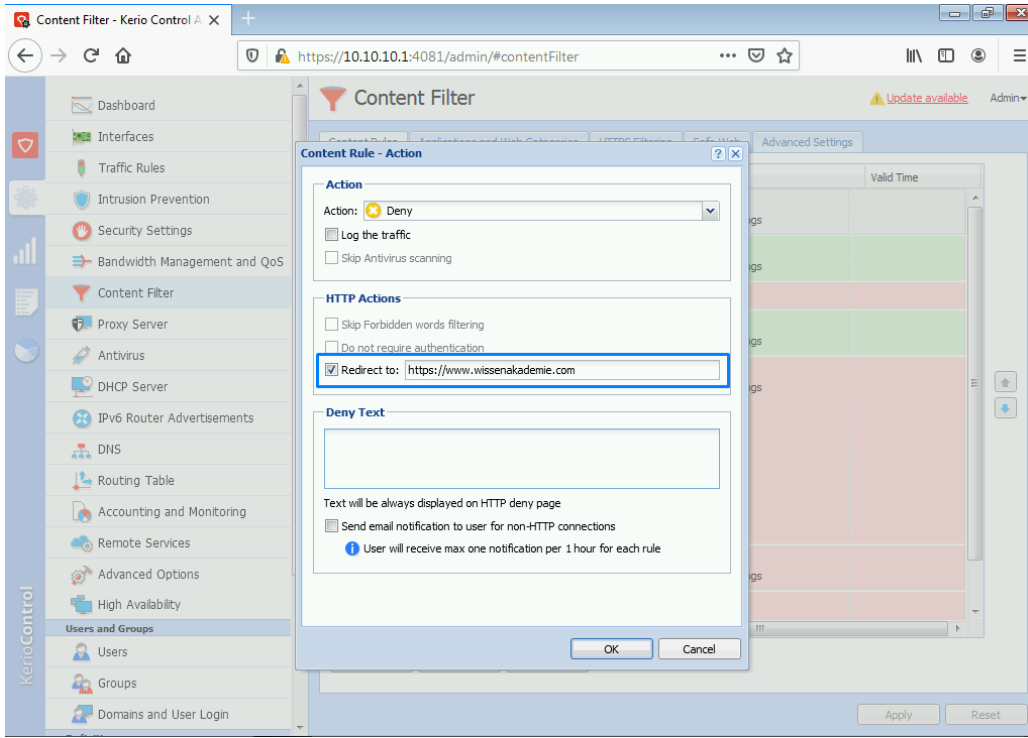
Sitenin URL'sini yazarı



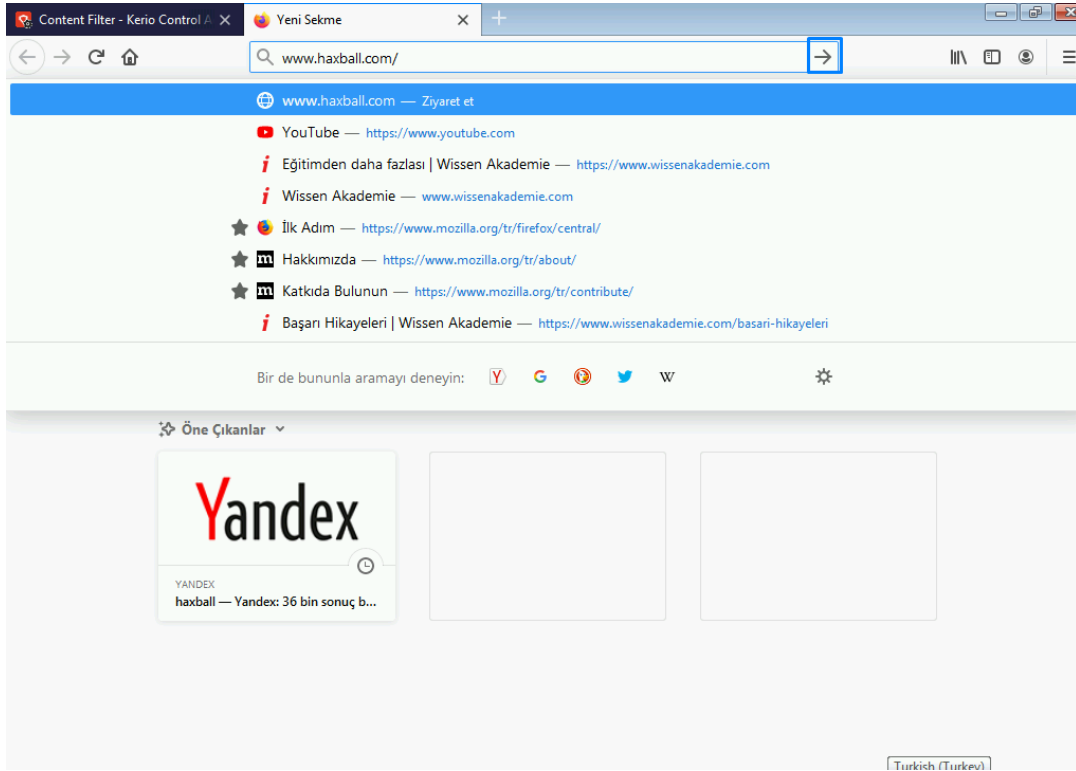
O site üzerinde yapmak istediğimiz işlem erişim engellemesi olduğu için, Deny aksiyonunu seçeriz.



Görüldüğü üzere, sitenin URL'sini girdik ancak giriş yapamadık



Yönlendirmeyi ise Redirect to: kısmından yaparız yönlendirmek istediğimiz sitenin URL'ini yazarız.



Content Filter - Kerio Control A X

Eğitimden daha fazlası | Wissen X

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📞

Aramak için en az 3 harf giriniz...

☐ YAZILIM☐ MOBİL☐ SİSTEM
☐ NETWORK☐ ARAYÜZ☐ TEKNİK ÇİZİM
☐ OFİS☐ ERP☐ CMS
☐ ANIMASYON☐ GÜVENLİK☐ YÖNETİM
☐ CLOUD

Adınız Soyadınız

Telefon

E-Posta

Mesajınız

☐ KVKK kapsamında kişisel bilgilerimi paylaştığımı kabul ediyorum.
Kişisel Verilerin Korunması Kanunu Metni

GÖNDER

Etkinlik Takvimi

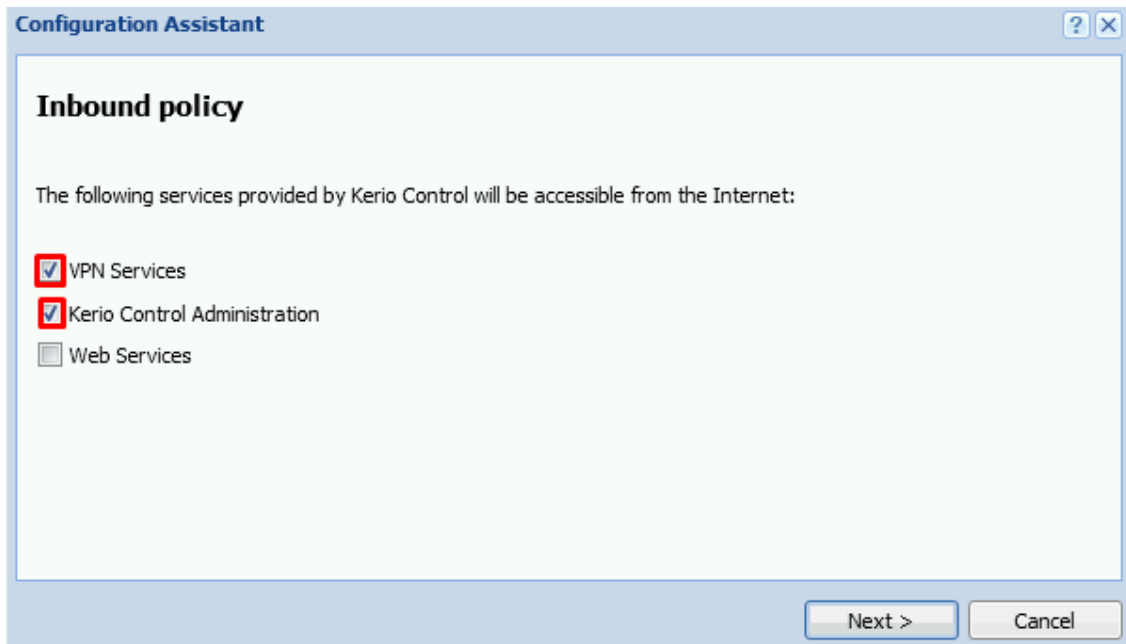
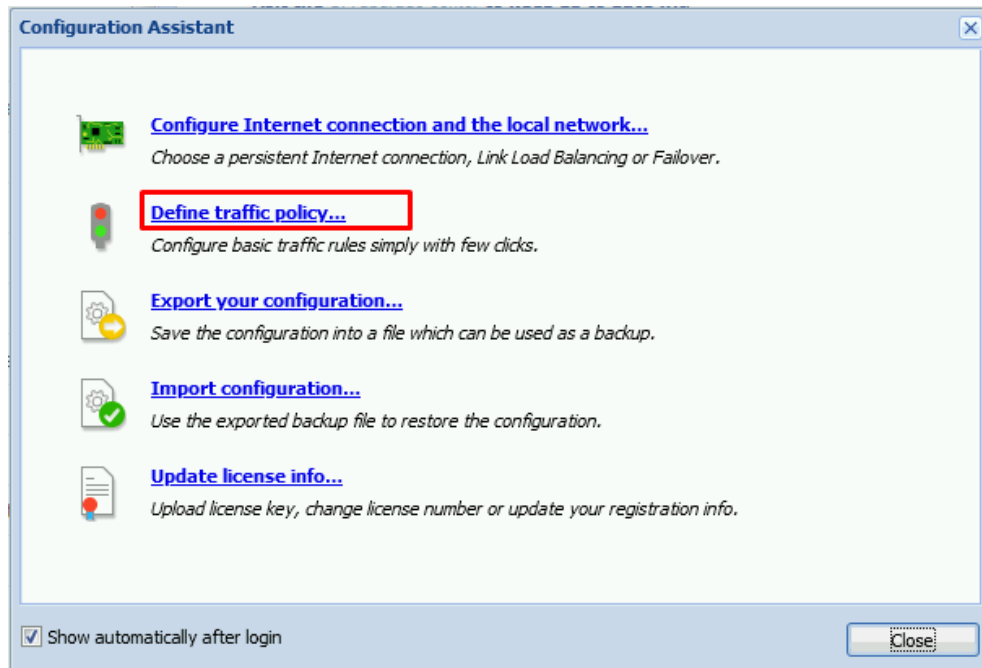
Cumartesi 21 Aralık	PYTHON WORKSHOP	Python ile Yapay Zeka Uygulamaları	50
Çarşamba 18 Aralık	Proje Yönetimi	Proje Yönetimi	50

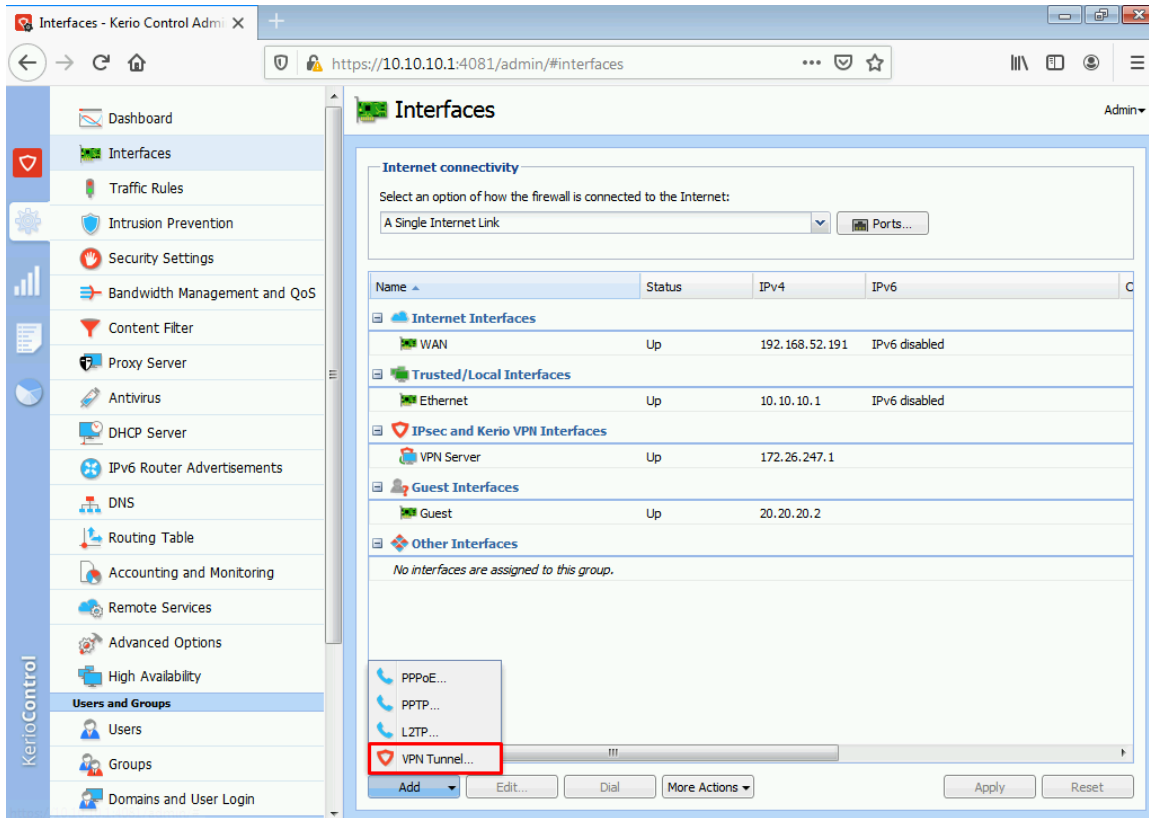
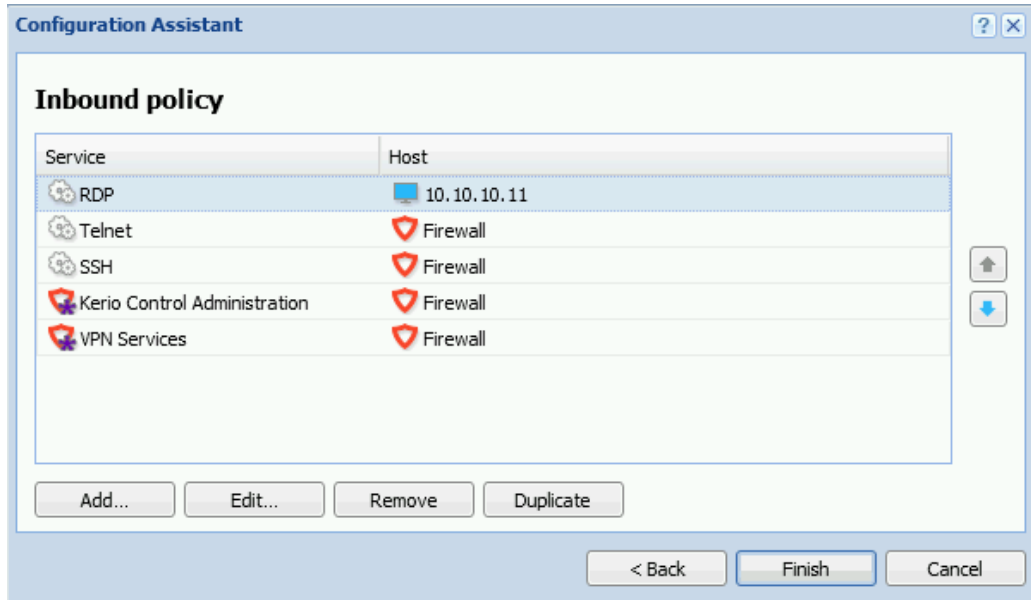
static.hotjar.com okunuyor

Wissen Akademie Ta... ⋮

Yönlendirmenin başarılı olduğunu gözlemleriz.

5) Kerio ile Site-to-Site VPN





Servislerimizin eklendiğinden emin oluruz ve VPN tunnel konfigürasyonumuza başlarız.

VPN Tunnel Properties

General

Name: umutesraVPN

☒ Enable this tunnel

☒ Active - it connects to the remote endpoint **esranın WAN IP'si**
192.168.52.57

Use semicolons (;) to separate multiple hostnames or IP addresses of the remote endpoint.

☐ Passive - it only accepts incoming connections

Type: IPsec **Kerio VPN**

Authentication **Remote Networks**

Local endpoint's SSL certificate fingerprint: d9:7f:71:7b:a0:c0:31:12:55:8d:8c:cd:a9:ec:4f:e6

Remote endpoint's SSL certificate fingerprint:

The authenticity of the remote endpoint during the creation of a tunnel session is verified by checking its public SSL certificate - the fingerprint of the certificate received from the remote endpoint must match the fingerprint entered here.

Detect remote certificate...

OK Cancel

Önce active seçiyoruz ki IP girebilelim detect remote certificate tıklayabilelim. Sonra passive'e alacağız. Yazdığımız IP,VPN bağlantısı yapacağımız karşıdaki cihazın WAN IP'si.

Confirm SSL Certificate

Attributes

SSL Certificate has been detected successfully.
Do you want to accept this certificate?

Name	Value
Organizational Unit	<not specified>
City	<not specified>
State or Province	<not specified>
Country	US

Subject

Hostname	cd5cbdf-a743-2d43-acd7-8a9e00685aec
Organization name	<not specified>
Organizational Unit	<not specified>
City	<not specified>
State or Province	<not specified>
Country	US

Fingerprint: c0:49:0c:8d:31:29:f0:8d:5d:51:3e:be:39:b2:9c:8

SHA1 fingerprint: 35:eb:f4:7e:d8:4f:1e:e9:11:db:aa:73:b0:a7:b3:9

SHA-256 fingerprint:

Valid from: 2019-12-23 06:19

Valid to: 2020-12-22 06:19

Accept Certificate Cancel

Detect remote certificate tıklarız ve bu pencere açılır. Kırmızı olan fingerprint karşıdaki cihazın. Accept deriz

VPN Tunnel Properties

General

Name: umutesraVPN

☒ Enable this tunnel

☐ Active - it connects to the remote endpoint

192.168.52.57

Use semicolons (;) to separate multiple hostnames or IP addresses of the remote endpoint.

☒ Passive - it only accepts incoming connections

Type: IPsec Kerio VPN

Authentication **Remote Networks**

Local endpoint's SSL certificate fingerprint: d9:7f:71:7b:a0:c0:31:12:55:8d:8c:cd:a9:ec:4f:e6

Remote endpoint's SSL certificate fingerprint: c0:49:0c:8d:31:29:f0:8d:5d:51:3e:be:39:b2:9c:8d

The authenticity of the remote endpoint during the creation of a tunnel session is verified by checking its public SSL certificate - the fingerprint of the certificate received from the remote endpoint must match the fingerprint entered here.

Detect remote certificate...

OK Cancel

Karşıdaki cihazın fingerprint'i otomatik olarak eklenir. Çünkü karşıdaki cihaz active durumda.

KerioControl

Interfaces

Internet connectivity

Select an option of how the firewall is connected to the Internet:

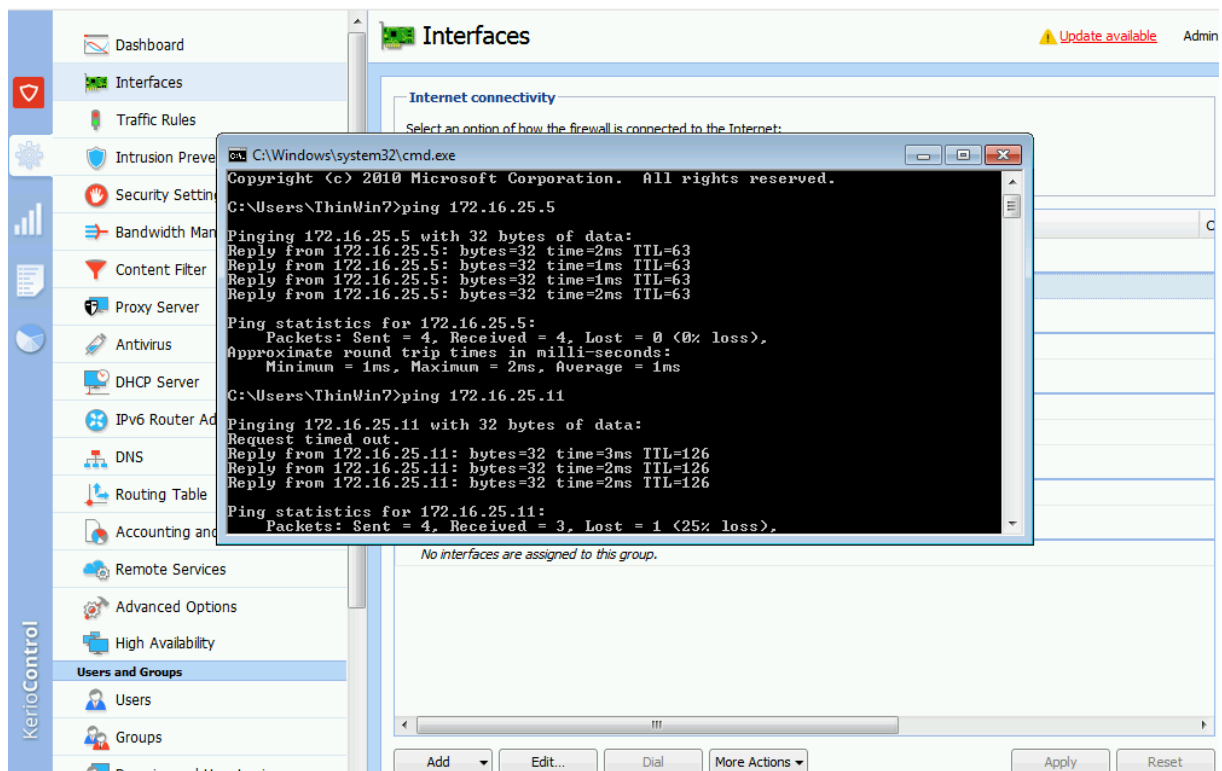
A Single Internet Link

Name	Status	IPv4	IPv6
Internet Interfaces			
WAN	Up	192.168.52.191	IPv6 disabled
Trusted/Local Interfaces			
Ethernet	Up	10.10.10.1	IPv6 disabled
IPsec and Kerio VPN Interfaces			
umutesraVPN	Up		
VPN Server	Up	172.26.247.1	
Guest Interfaces			
Guest	Up	20.20.20.2	
Other Interfaces			
No interfaces are assigned to this group.			

Add Edit... Dial More Actions Apply Reset

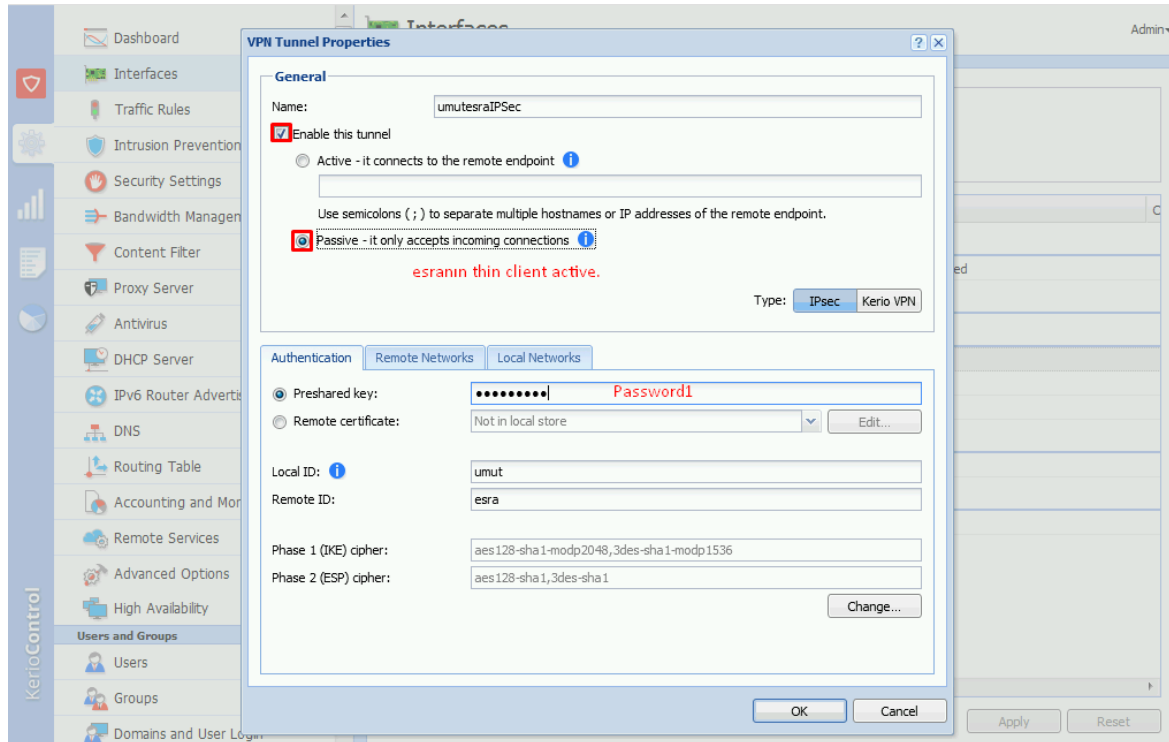
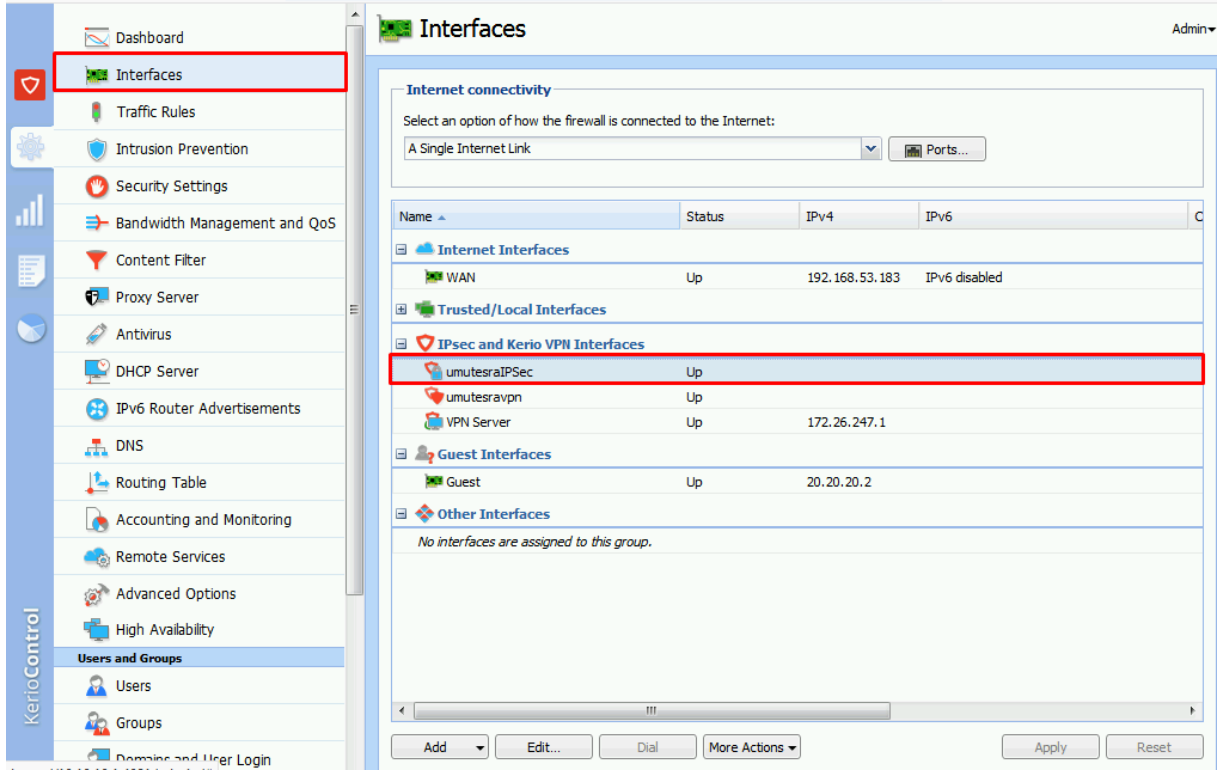
Apply deriz ve sertifikamız up olur.

Firewall kapatılır. Karşıdaki cihazın, bizim ThinClient cihazımıza ping atabilmiş olması lazımdır.



Ping atabildik.

6) Kerio ile IPSec Tunneling



Biz passive, karşı taraf active durumda. Ayrıca yaptığımız işlem tünelleme olduğu için ortak bir şifre var.

Authentication Remote Networks Local Networks

Please define all remote networks accessible via this tunnel:

Network	Mask	Description
<input checked="" type="checkbox"/> 172.16.25.0	255.255.255.0	

Add... Edit... Remove

OK Cancel

Karşıdaki cihazın internal NIC networkünü, Remote Networks kısmına ekleriz.

Dashboard Interfaces Traffic Rules Intrusion Prevention Security Settings Bandwidth Management and QoS Content Filter Proxy Server Antivirus DHCP Server IPv6 Router Advertisements DNS Routing Table Accounting and Monitoring Remote Services Advanced Options High Availability Users and Groups Users Groups Domains and User Login

Interfaces

Internet connectivity

Select an option of how the firewall is connected to the Internet:

A Single Internet Link Ports...

Name	Status	IPv4	IPv6
Internet Interfaces			
WAN	Up	192.168.53.183	IPv6 disabled
Trusted/Local Interfaces			
IPsec and Kerio VPN Interfaces			
umutesraIPSec	Up		
umutesravpn	Up		
VPN Server	Up	172.26.247.1	
Guest Interfaces			
Guest	Up	20.20.20.2	
Other Interfaces			
No interfaces are assigned to this group.			

Add Edit... Dial More Actions Apply Reset

IPSec Interface'imiz UP hale gelir.

```
C:\Windows\system32\cmd.exe

C:\Users\ThinWin7>ping 172.16.25.11

Pinging 172.16.25.11 with 32 bytes of data:
Reply from 172.16.25.11: bytes=32 time=2ms TTL=126
Reply from 172.16.25.11: bytes=32 time=2ms TTL=126
Reply from 172.16.25.11: bytes=32 time=4ms TTL=126
Reply from 172.16.25.11: bytes=32 time=2ms TTL=126

Ping statistics for 172.16.25.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 4ms, Average = 2ms

C:\Users\ThinWin7>tracert 172.16.25.11

Tracing route to 172.16.25.11 over a maximum of 30 hops
  0  <1 ms    <1 ms    <1 ms    control [10.10.10.1]
  1  1 ms     1 ms     2 ms     172.16.25.5
  2  2 ms     1 ms     1 ms     172.16.25.11

Trace complete.

C:\Users\ThinWin7>
```

Ping atabildik.