INSTALLAZIONE MANAGEMENT CHECKPOINT SU WINDOWS 2003 ENTERPRISE EDITION

Inserire il CD ROM contenente la cartella Windows_wrapper_R55_15 quindi aprirla e lanciare il file Setup.exe .



Fig.1

Cliccare su Next



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Fig.4

Selezionare New Installation (già selezionato di default) e cliccare su Next



Fig.5

Selezionare SmartCenter e SmartConsole quindi cliccare Next.

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Fig.6

Selezionare Primary SmartCenter (selezioanto di Default) e cliccare su Next

Please read the following text.	
You have selected the following p	product(s):
SmartCenter	
1	▼ ►
InstallShield	
	< <u>B</u> ack <u>N</u> ext> Cancel
	Fig.7
xt	
Check Point ¥PN-1 Pro NG with Ap	pplication Intelligence (R55)
Destination Location	
Setup will install Check Point VPN following folder.	I-1 Pro NG with Application Intelligence (R55) in the
Setup will install Check Point VPN following folder. To install to this folder, click Next. another folder.	I-1 Pro NG with Application Intelligence (R55) in the To install to a different folder, click Browse and select
Setup will install Check Point VPN following folder. To install to this folder, click Next. another folder.	I-1 Pro NG with Application Intelligence (R55) in the To install to a different folder, click Browse and select
Setup will install Check Point VPN following folder. To install to this folder, click Next. another folder.	I-1 Pro NG with Application Intelligence (R55) in the To install to a different folder, click Browse and select
Setup will install Check Point VPN following folder. To install to this folder, click Next. another folder.	I-1 Pro NG with Application Intelligence (R55) in the To install to a different folder, click Browse and select
Setup will install Check Point VPN following folder. To install to this folder, click Next. another folder.	I-1 Pro NG with Application Intelligence (R55) in the To install to a different folder, click Browse and select
Setup will install Check Point VPN following folder. To install to this folder, click Next. another folder. Destination Folder C:\Program Files\FW1\R55	I-1 Pro NG with Application Intelligence (R55) in the To install to a different folder, click Browse and select Browse
Setup will install Check Point VPN following folder. To install to this folder, click Next. another folder. Destination Folder C:\Program Files\FW1\R55	I-1 Pro NG with Application Intelligence (R55) in the To install to a different folder, click Browse and select Browse

Cliccare su Next

52

Cliccare

Setup Status					
Check Point VPI requested opera	N-1 Pro NG with App tions.	lication Intelligence	(R55) Setup is perfi	orming the	
Installing:					
C:\WINDOWS\	-W1\R55\bin\upgra	ide_tools\upgrade_i	mport.exe		
		81%			
stallShield ———					
				Cancel	

Attendere il completamento dell'installazione (occorreranno alcuni minuti)





Fig.12

Inserire un utente che possa accedere alla GUI del client.

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	😤 GUI Clients 🔀
	GUI Clients:
	Remote hostname:
	You can use wildcards. See Help for details.
	In certain configurations, you must install a Security Policy before the GUI Clients settings can apply. See Help for details.
	Specify remote clients from which an Administrator can log on to this SmartCenter Server.
	Fig.14
Cliccare su Next	
A	

ey Hit Session	×
The random data will be used as a seed for cryptographic operations.	
Please enter some random text until you hear the beep and the bar is full:	
Handom Characters:	·×
Note: Strokes that are too fast or too similar to the predecessor strokes, are ignored.	
Thank you !	
< <u>B</u> ack <u>Next</u> > Cancel He	lp
Eig 15	

Premere a caso i pulsanti sulla tastiera per craere una chiave di sessione quindi cliccare su Next.

and the second s	×
The Internal CA will now be initialized with the following name:	
	کر
Internal CA Status: Not initialized	
< <u>B</u> ack <u>N</u> ext > Cancel Help	

Fig.16

Inserire il nome delle CA e cliccare su Next. (lasciare quello di default)

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Fig.19

Selezionare no, I will restart my computer later e cliccare su Finish.

Quindi rimuovere il CD ROM di installazione e riavviare la macchina.



Adesso lanciamo il file fwgui_R55_541000127_2_Win.exe



Cliccare su Next.



boose Destination Location			
CHOOSE DESUNATION FOCUTION			
Setup will install Check Point SmartConsol following folder.	le NG with Applic	ation Intelligence (R55) i	in the
To install to this folder, click Next. To insta another folder.	all to a different fo	older, click Browse and se	elect
Destination Folder			
C:\Program Files\CheckPoint\SmartCor	nsole\R55	Bio	iwse
istallShield			
	< <u>B</u> ack	< <u>N</u> ext >	Cancel
	Fig.22	J	
heck Point SmartConsole NG with Appl	lication Intellig	gence (R55)	×
Select Clients Choose the clients Setup will install.			*@
Select the clients you want to install, and	clear the clients ;	you do not want to install.	
TTL crif SmartD ashbaard		Description	
SmartView Tracker		The SmartConsole ma	inages:
SmartView Status		FireWall-1, VPN-1, SmartDefense, Floodf	ate-1
SecureClient Packaging Tool		and more.	
SmartView Monitor			
SmartView Reporter			
User Monitor			
Space Required on C:	92136 K		
Space Available on IC:	2587152 K		
nstalioniela			a i 1

Fig.23

Cliccare su Next



Check Point	SmartConsole NG with Application Intelligence (R55)	×
Setup Sta	atus	
Check Po requested	oint SmartConsole NG with Application Intelligence (R55) Setup is performing the d operations.	
Installing:	Question	
-	Do you want to create SmartConsole Shortcuts on Desktop? Yes No	
La stall Chiefel		
Instalionielo —		
	Can	cel
	Fig.24	

Cliccare su No.

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are su No	D.		
	Check Point SmartConsole NG with Application Intelligence (R55)	×	
	Setup Status		
	Check Point SmartConsole NG with Application Intelligence (R55) Setup is performing the requested operations.		
7	ormation		×
	The Check Point Installation Wizard has successfully installed Check Point SmartConsole NG Intelligence (R55) .	; with App	lication
	OK]		
~	InstellShield		
	Cano	el	
	Fig 25		

Cliccare su \mathbf{OK}



Adesso avviamo lo SmartDashboard R55 da Start, Programmi.

APPLICATION INTELLIGENCE	elcome to Check Point martDashboard	
🔲 <u>D</u> emo Mode	Basic (Firewall)	
	Administrator	· X
C <u>C</u> ertificate:		
<u>P</u> assword:	*****	
<u>S</u> martCenter Server:	to1nets001	
Read O <u>n</u> ly	More Options >>	\mathbf{O}^{*}
<u></u> K	Quit	
	Fig.26	-

Autentichiamoci inserendo User Name, Password e SmartCenter Server (non è nient'altro che il nome DNS della macchina in oggetto).

Welcome to Check Point SmartDashboard				
This is the first time you are contacting this SmartCenter Server.				
<u>S</u> martCenter Server:	to1nets001 - 192.168.1.3			
Eingerprint:	FAKE ORE LUNG LIFT LOOT AIDS STAG HELD LEFT STEM SOUL GENT			
To be absolutely sure that no one is impersonating your management, compare the Fingerprint in the Configuration Tool on the SmartCenter Server, to this Fingerprint.				
Do you approve this Fingerprint as valid?				
C	<u>Approve</u>			
	Ein 07			

Fig.27

Cliccare su Approve (per il Fingerprint)





Adesso creiamo un Gateway Cluster.

Gateway Cluster Propertie	es - to1clts007.augustanet.prv	×
General Properties	Gateway Cluster Properties - General Properties	
- Cluster XL	Name: to1clts007.augustanet.prv	
Synchronization ⊕ Topology	IP Address: 10.70.0.7 Get address	
Imin NAT I∰⊷ VPN	<u>C</u> omment:]
Remote Access Authentication	Color:	
Logs and Masters Capacity Optimization	Check Point Products	
⊡ Advanced	Version: NG with Application Intelligence	
	Type: Check Point Enterprise/Pro	7
	✓ Firewall	
	□QoS Cluster XL	
	SecureClient Policy Server	1
]
	OK Cancel Help	
11/1	Fig.30	

Questa è la configurazione delle General Properties.

eway Cluster Properties	s - to1clts007.augustanet.prv	
General Properties Cluster Members Cluster XL	Cluster Members Gateway Cluster members List ordered by priorities:	
- Synchronization	News DB Address	
± Topology	Name IP Address	
	Increase	Risilu
E Remote Access	Tunicas	s r-noncy
- Authentication		
E Logs and Masters	Decreas	e Priority
Advanced		
	Add Edit Bemove	
	Nou Cluster Member	
	Add Gateway to Cluster	
	OK Cancel	Help
	Fig.31	

Clicchiamo su Add per aggiungere un New Cluster Member

Cluster Membe	r Properties - to1cltn011.augustanet.prv 🛛 🔀	(
General Topo	logy NAT VPN	1
<u>N</u> ame: IP <u>A</u> ddress: <u>C</u> omment: Co <u>l</u> or:	to1cltn011.augustanet.prv 10.70.0.8 Get address	×
Secure Interna <u>Commu</u> nicati	al Communication on DN:	
	OK Cancel Help Fig.32	

Inseriamo il nome del primo nodo del cluster seguito dall'indirizzo IP.

 \bigcirc

Name	IP Address	Network Mask	IP Addresses behind interface	
•			•	
<u>A</u> dd	<u>E</u> dit	: <u>R</u> emove	<u>S</u> how	
<u>A</u> dd	<u>E</u> di	t <u>R</u> emove	Show	
Add	Edi	t <u>R</u> emove	Show	
<u>A</u> dd	<u>E</u> di	t <u>R</u> emove	Show	
bb <u>A</u>	Edi	t <u>R</u> emove	Show	
<u>A</u> dd	<u>E</u> di	t <u>R</u> emove	Show	
<u>A</u> dd	Ēdi	t <u>R</u> emove	Show	

Nella sezione **Topology** inseriamo gli indirizzi corrispondenti alle interfacce.

<u>G</u> et				
Name	IP Address	Network Mask	IP Addresses behind interface	
Eth1	172.16.0.7	255.255.0.0	This Network	
Eth2	10.70.128.2	255.255.255.192		
Eth3	10.70.128.66	255.255.255.192		
Eth4	10.70.0.8	255.255.252.0		
Eth6	10.70.128.194	255 255 255 192		
Eth7	10.70.128.130	255.255.255.192		
Add		L'arsoura		
		Demove	Show	
_	<u>E</u> uk	Demove	Show	
_		<u>D</u> emove	Show	
_			Show	
_	<u>E</u> di		Show	
	<u>E</u> di	<u>Tenove</u>	<u>Show</u>	
		Tenove	<u>Show</u>	
	<u>E</u> di	Tenove	Show	
_	<u>E</u> di	Tenove	Show	
_	<u>E</u> di	Teurove	2how	
_	<u>E</u> di	Teurove	<u>Show</u>	
_	<u>E</u> di	Tenove	2how	
_	<u>E</u> di	Teurove	2how	
_	<u>E</u> di	Tenove	2how	
_	<u>E</u> di	Tenove	<u>Show</u>	

Dobbiamo ottenere il seguente risultato (Fig.34)

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!!!ATTENZIONE!!! Tutte le interfacce vanno settate come Cluster Interface tranne l'interfaccia di Sync che va settata come mostrato in Figura 35



Interface Properties	×
General Topology	
Topology	
External (leads out to the internet)	
Internal (leads to the local network)	
IP Addresses behind this interface:	- X
◯ <u>N</u> ot Defined	
Network defined by the interface IP and Net Mask	
O Specific:	
Anti-Spoofing	
Perform Anti-Spoofing based on interface topology	
Spoof Tracking: O None 💿 Log 🔿 Alert	
OK Cancel Help	
Fig 35	

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Clicchiamo su \mathbf{OK} fino ad arrivare alla seguente schermata

Gateway Cluster Propertie	es - to1clts007.augustanet.prv	×
Gateway Cluster Properties General Properties Cluster Members Cluster XL Synchronization Topology NAT VPN Remote Access Authentication Capacity Optimization Advanced	es - to1clts007.augustanet.prv Cluster Members Gateway Cluster members List ordered by priorities: Name IP Address I to1cltn011.augustanet.prv 10.70.0.8 Increase Priority	X
	OK Cancel Help Fig.36	

Adesso procediamo con l'inserimento del secondo nodo del Cluster (la procedura è uguale)



Di seguito mostrerò la schermata con gli indirizzamenti IP.

General Topology NAT VPN	
Name: to1cltn012.augustanet.prv	
IP Address: 10.70.0.9 Get address	
Comment:	
Color:	
Secure Internal Communication	
 UK Cancel Help	
Fig.37	

La Topologia

er Men	nber Properties -	to1cltn012.augus	stanet.prv	×
neral 1	opology NAT	VPN		
<u>G</u> et.				
Name	IP Address	Network Mask	IP Addresses behind interface	
Eth1 Eth2 Eth3 Eth4 Eth5	172.16.0.8 10.70.128.3 10.70.128.67 10.70.0.9 194.185.203.86	255.255.0.0 255.255.255.192 255.255.255.192 255.255.255.250 255.255.255.248	This Network	
Eth7	10.70.128.135	255.255.255.192		•
•				
	01	Cancel	Help	
		Fig 38		

	Indirizzamenti	IP	secondo	nodo	del	Cluster
--	----------------	----	---------	------	-----	---------



Adesso all'interno di Gateway Cluster Properties dovremmo avere una situazione come raffigurato in figura sottostante

eneral Properties	Cluster Members		
uster XL	Gateway Cluster members List order	ed by priorities:	
ynchronization opology	Name	IP Address	
AT	to1cltn011.augustanet.prv	10.70.0.8	
PN	to1cltn012.augustanet.prv	10.70.0.9	Increase Priority
emote Access uthentication			
ogs and Masters			Decrease Brievity
pacity Optimization			Decrease Priority
lvanced			
	,,		
	<u>A</u> dd <u>E</u> dit	<u>R</u> emove	
	08	Cancel	Help
			· ·
	Fig.39		

Nella Sezione Synchronization aggiungere la rete per la sincronizzazione tra i nodi come raffigurato in Figura 40

	Add Synchroniza	tion Network		×	
	Name:	Eth1			
	Network Address:	172.16.0.0			
	Net <u>M</u> ask:	255.255.0.0			X
	<u>0</u> K	<u>Cancel</u>	<u>H</u> elp	18	
		Fig.40	S	X,	
			\sim		
			0		
		XV			
		6			
	$\langle \rangle$				
1.					
)				



Ottenendo un risultato come in figura seguente

ateway Cluster Propertie	s - to1clts007.august	tanet.prv		×
General Properties	Synchronization			
- Cluster Members				
- Cluster XL Synchronization	🔽 🛛 se State Synch	hronization		
⊒. Topology	Synchronization net	works:		
ISP Redundancy	Network News		Natural Martin	
···NAT	Eth1	172.16.0.0	255 255 0.0	
emote Access		112.10.0.0	200.200.0.0	
Authentication				
Logs and Masters				
Advanced				
	<u>G</u> et	<u>Add E</u> c	dit <u>R</u> emove	
	Make sure the abo See Help for detail	ove networks are safe		
	see neip toi detaii	8.		
		OK	Cancel H	lelp
		Fig.41		



Adesso nella sezione Topology aggiungiamo nuovamente le interfacce di rete tranne la SYNC. (Fig 42)

General Properties	Topology	
Cluster Members		
Cluster XL		
Synchronization	Name IP Address Network Mask IP Addresses behind in	erface
ISP Bedundancu		
NAT		
VPN		
Remote Access		
Authentication		
Logs and Masters		
Capacity Optimization		►
Advanced		
	Add Edit <u>R</u> emove	
	Show all IPs behind Gateway	
	allow and a pointe a stoway	
	Enable Extended Cluster Anti-Spoofing	
	(Supported from NG with Application Intelligence (R55) and above)	
	VPN Domain	
	All IP Addresses behind Cluster Members based on Topology information	n
	Air n Addresses Dening Cluster Members based on ropology informatio	1.
	C Manually defined	W
	Show VPN Domain	
	OK Cancel Help	
	Fig. 10	
	FIG.42	
	FIG.42	



Diseguito saranno riportate le configurazioni delle singole interfacce

Eth2

Interface Properties X	Interface Properties
General Topology Member Network	General Topology Member Network
Name: Image: 10.70.128.1 Net Mask: 255.255.255.192 Note: This is a definition of the virtual interface as it is seen by the network behind it.	Topology ● External (leads out to the internet) ● Internal (leads to the local network) IP Addresses behind this interface: ● Not Defined ● Network defined by the interface IP and Net Mask ● Specific: ✓ Anti-Spoofing Perform Anti-Spoofing based on interface topology Spoof Tracking: ● Ngne ● Log
OK Cancel Help	OK Cancel Help
	•

Interface Properties	×
General Topology Member Network	
Network Address: 10.70.128.0	
Net Mask: 255 255 255	192
100.200.200	
Eth3	
Interface Properties	Interface Properties
General Topology Member Network	Interface Properties X General Topology Member Network
General Topology Member Network	Interface Properties X General Topology Member Network
Interface Properties X General Topology Mame: Eth: ID 70 120 CF	Interface Properties X General Topology Topology
Interface Properties X General Topology Member Network Name: Eth2 IP Address: 10.70.128.65 Net Mask: 255 255 192	Interface Properties X General Topology Member Network Topology External (leads out to the internet) © [Internal (leads to the local network]
Interface Properties X General Topology Member Network Name: Eth3 IP Address: 10.70.128.65 Net Mask: 255.255.255.192	Interface Properties X General Topology Member Network Topology External (leads out to the internet) Internal (leads to the local network) IP Addresses behind this interface:
General Topology Member Network Name: Eth3 IP Address: 10.70.128.65 Net Mask: 255.255.255.192	Interface Properties X General Topology Member Network Topology External (leads out to the internet) Image: External (leads to the local network) Image: External (leads to the local network) IP Addresses behind this interface: Not Defined
Interface Properties X General Topology Member Network Name: Eth: IP Address: 10.70.128.65 Net Mask: 255.255.255.192 Note: This is a definition of the virtual interface as it is seen by the network behind it.	Interface Properties X General Topology Member Network Topology External (leads out to the internet) Image: External (leads to the local network) Image: External (leads to the local network) IP Addresses behind this interface: Not Defined Image: Network defined by the interface IP and Net Mask
Interface Properties X General Topology Member Network Name: Eth: IP Address: 10.70.128.65 Net Mask: 255.255.255.192 Note: This is a definition of the virtual interface as it is seen by the network behind it.	Interface Properties Image: Second Secon
General Topology Member Network Name: Eth: IP Address: 10.70.128.65 Net Mask: 255.255.255.192 Note: This is a definition of the virtual interface as it is seen by the network behind it.	Interface Properties Image: Second state sta
General Topology Member Network Name: Eth: IP Address: 10.70.128.65 Net Mask: 255.255.255.192 Note: This is a definition of the virtual interface as it is seen by the network behind it.	Interface Properties Image: Second state sta
General Topology Member Network Name: Ethe IP Address: 10.70.128.65 Net Mask: 255.255.192 Note: This is a definition of the virtual interface as it is seen by the network behind it.	Interface Properties Image: Specific for the interface inter
General Topology Mame: Ethe IP Address: 10.70.128.65 Net Mask: 255.255.255.192 Note: This is a definition of the virtual interface as it is seen by the network behind it.	Interface Properties Image: Specific for the interface inter
General Topology Mame: Image:	Interface Properties General Topology Member Network Topology © External (leads out to the internet) © Internal (leads to the local network) IP Addresses behind this interface: © Not Defined © Network defined by the interface IP and Net Mask © Specific: Anti-Spoofing IP Anti-Spoofing Spoof Tracking: © None © Log © Alert
General Topology Member Network Name: Ethe IP Address: 10.70.128.65 Net Mask: 255.255.255.192 Note: This is a definition of the virtual interface as it is seen by the network behind it. OK Cancel Help	Interface Properties General Topology Member Network Topology © External (leads out to the internet) © Internal [leads to the local network] IP Addresses behind this interface: © Not Defined © Network defined by the interface IP and Net Mask © Specific: ✓ Anti-Spoofing ✓ Perform Anti-Spoofing based on interface topology Spoof Tracking: None © Log ØK

Interface Properties	X
General Topology Member Network Network Address: 10.70.128 Net Mask: 255.255.25	k
OK Cancel	Help
Eth4	
Interface Properties X	Interface Properties
General Topology Member Network	General Topology Member Network
Name: Eth4	Topology
IP Address: 10.70.0.7	C External (leads out to the internet)
Net Mask: 255.255.252.0	Internal (leads to the local network)
	IP Addresses behind this interface:
Note: This is a definition of the virtual interface as	○ Not Defined
it is seen by the network behind it.	Network defined by the interface IP and Net Mask
	Anti-Spoofing
	Perform Anti-Spoofing based on interface topology
	Spoof Tracking: O None 💿 Log O Alert
OK Cancel Help	OK Cancel Help

Interface Properties	×
General Topology Member Network	<]
Network Address: 10.70.00	
Net Mark: 255 255 25	20
NGL <u>M</u> ask. [200.200.20	
General Transform Manufacture to Land	General T0000000 Member Network
deneral Lobology wember Network	General ropology Member Network
Name: Eth5	Topology
Name: Eth5 IP Address: 194.185.203.84	Topology
Name: Eth5 IP Address: 194.185.203.84 Net Mask: 255.255.248	Topology
Name: Eth5 IP Address: 194.185.203.84 Net Mask: 255.255.248	Topology External (leads out to the internet) Internal (leads to the local network) IP Addresses behind this interface: Not Defined
Name: Eth5 IP Address: 194.185.203.84 Net Mask: 255.255.255.248 Note: This is a definition of the virtual interface as it is seen by the network behind it	Topology External (leads out to the internet) Internal (leads to the local network) IP Addresses behind this interface: Not Defined Network defined by the interface IP and Net Mask
Name: Eth5 IP Address: 194.185.203.84 Net Mask: 255.255.255.248 Note: This is a definition of the virtual interface as it is seen by the network behind it.	Topology • External (leads out to the internet) • Internal (leads to the local network) IP Addresses behind this interface: • Not Defined • Network defined by the interface IP and Net Mask • Specific: • Specific: • • • • • • • • • • • • • • •
Name: Eth5 IP Address: 194.185.203.84 Net Mask: 255.255.255.248 Note: This is a definition of the virtual interface as it is seen by the network behind it.	Topology • External (leads out to the internet) • Internal (leads to the local network) IP Addresses behind this interface: • Not Defined • Network defined by the interface IP and Net Mask • Specific: • Specific: • Anti-Spoofing • Material Specific
Name:Eth5IP Address:194.185.203.84Net Mask:255.255.255.248Note:This is a definition of the virtual interface as it is seen by the network behind it.	Topology • External (leads out to the internet) • Internal (leads to the local network) IP Addresses behind this interface: • Not Defined • Not Defined • Network defined by the interface IP and Net Mask • Specific: • Specific: • Perform Anti-Spoofing based on interface topology
Name:Eth5IP Address:194.185.203.84Net Mask:255.255.255.248Note:This is a definition of the virtual interface as it is seen by the network behind it.	Topology ● External (leads out to the internet) ● Internal (leads to the local network) IP Addresses behind this interface: ● Not Defined ● Network defined by the interface IP and Net Mask. ● Specific: ● Perform Anti-Spoofing based on interface topology Spoof Tracking: None ● Log ▲lent
Name:Eth5IP Address:194.185.203.84Net Mask:255.255.255.248Note:This is a definition of the virtual interface as it is seen by the network behind it.	Topology • External (leads out to the internet) • Internal (leads to the local network) IP Addresses behind this interface: • Not Defined • Network defined by the interface IP and Net Mask • Specific: • Specific: • Anti-Spoofing Perform Anti-Spoofing based on interface topology Spoof Tracking: • None • Log • Alert • Output
Name:Eth5IP Address:194.185.203.84Net Mask:255.255.255.248Note:This is a definition of the virtual interface as it is seen by the network behind it.	Topology • External (leads out to the internet) • Internal (leads to the local network) IP Addresses behind this interface: • Not Defined • Network defined by the interface IP and Net Mask • Specific: • Specific: • Anti-Spoofing Perform Anti-Spoofing based on interface topology Spoof Tracking: • None • Log • Alert • Defined • Log • Alert • Output • Outpu
Name: Eth5 IP Address: 194.185.203.84 Net Mask: 255.255.255.248 Note: This is a definition of the virtual interface as it is seen by the network behind it.	Topology • External (leads out to the internet) • Internal (leads to the local network) IP Addresses behind this interface: • Not Defined • Network defined by the interface IP and Net Mask • Specific: • Specific: • Anti-Spoofing • Perform Anti-Spoofing based on interface topology Spoof Tracking: • None • Log • Alert • Other content is the second of the s

	Interface Properties	×
	General Topology Member Netwo	rk
	Network Address: 194.185.2	03.80
	Net <u>M</u> ask: 255.255.2	55.248
		• X •
	Eth6	
Interface Properties	×	Interface Properties X
General Topology Member N	etwork	General Topology Member Network
Ett 0		Topology
Name: JEth6		C External (leads out to the internet)
Net Mask: 255.255.255.19)2	Internal (leads to the local network)
		IP Addresses behind this interface:
Note: This is a definition	of the virtual interface as	◯ <u>N</u> ot Defined
it is seen by the network	t behind it.	Network defined by the interface IP and Net Mask Specific:
		Anti-Spoofing
		Perform Anti-Spooting based on interface topology
		Spoor Hacking, O None IO Log O Alert
OK Ca	incel Help	OK Cancel Help

	Interface Properties	×
	General Topology Member Netv	vork
	Network Address: 10.70.12	8.192
	Net <u>M</u> ask: 255.255	255.192
		• X.•
	OK Cano	el Help
	Eth	
Interface Properties	2	Interface Properties
General Topology Member N	etwork	General Topology Member Network
Eth7		Topology
IP Address: 10.70.128.129		C External (leads out to the internet)
Net Mask: 255.255.255.1	92	Internal (leads to the local network)
,		IP Addresses behind this interface:
NUMER THE COLDENSE	والمراجع	O <u>N</u> ot Defined
it is seen by the networ	k behind it.	Network defined by the interface IP and Net Mask
		Anti-Spoofing
		Perform Anti-Spoofing based on interface topology
		Spoof Tracking: O None 💿 Log O Alert
ОКСС	ancel Help	OK Cancel Help

Interface Properties	×
General Topology Member Net	vork
Network <u>A</u> ddress: 10.70.13	28.128
Net <u>M</u> ask: 255.255	.255.192
OK Cano	el Help
	0



Dovremmo ottenere un risultato come raffigurato in Figura 43

- Cluster Members	Topology			
Cluster XL Synchronization	Name	IP Address	Network Mask	IP Addresses behind interface
⊡ · Topology	Eth2	10.70.128.1	255.255.255.192	This Network
- NAT	Eth3	10.70.128.65	255.255.255.192	This Network
±-VPN	Eth5	194.185.203.84	255 255 255 248	External
E Remote Access	Eth6	10.70.128.193	255.255.255.192	This Network
- Authentication	Eth7	10.70.128.129	255.255.255.192	This Network
🛨 Logs and Masters				
Capacity Optimization	•	1		•
	Enab (Supp	le Extended Cluster. ported from NG with.	Anti-Spoofing Application Intelligen	ce (R55) and above)
	VPN Dor C <u>M</u> anu Show \	nain Addresses <u>b</u> ehind C Ially defined /PN <u>D</u> omain	iluster Members base	d on Topology information.

Adesso andare all'interno della Configurazione dei due nodi e impostiamo il SIC.



Adesso andiamo in Policy quindi Global Properties.

lobal Properties		
FireWall-1 NAT - Network Address	FireWall-1 Implied Rules	ne rules in the Rule Base:
	Accept VPN-1 & FireWall-1 control connections:	First
SmartDirectory (LDAP) SmartMap UserAuthority	Accept Remote Access control connections:	First
Management High Ava ConnectControl OSE - Open Security E:	Accept BIP:	First
Stateful Inspection Tog and Alert OPSEC SmortConter Access	 Accept Domain Name over UDP (Queries): Accept Domain Name over TCP (Zone Transfer): 	First
- SmartDashboard Custo	Accept ICMP requests:	Before Last
	 Accept CPRID connections (SmartUpdate): Accept dynamic address Modules' DHCP traffic: 	First
	Track	
	I™ Log Implied Hules	
۱		
	OK C	Cancel Help

Settiamo tutto come mostrato in Figura 44.



Per quanto riguarda Smart Directory LDAP settiamo tutto come in Figura 45

Global Properties

ilobal Properties			×
	SmartDirectory (LDAP)		
HireWall-1 NAT - Network Address			
Authentication ⊕ VPN	Use SmartDirectory (LDAP)		
	SmartDirectory (LDAP) Properties: —		
SmartDirectory (LDAP)	Timeout on cached users:	900	seconds
Management High Ava	<u>C</u> ache size:	1000	users
- OSE - Open Security E:	Password <u>e</u> xpires after:	90	days
Stateful Inspection Log and Alert OPSEC SmartCenter Access Non Unique IP Address SmartDashboard Custo	Display User's DN at Login Don't Display Display Display	y O Display on Regu	iest
	Password Strength:		
	Minimal password length: 6	🛨 characters	
	Password must include lowerca	ise character	
	Password must include an upper	ercase character	
	Password must include a <u>d</u> igit		
	Password must include a symbol	bl	
	Enforce rules for user managem	ient administrators	
		OK Cancel	Help
	Fig.45		



Fig.46

Effettuati tutti i settaggi bisogna installare le Policy su entrambe i nodi del cluster Clicchiamo su **OK** e attendiamo la fine dell'installazione.



Se tutto è andato bene dovrebbe uscire una schermata come quella di seguito

Installation				
Installation				
Installation Targets	Version	Advanced Security		
to1clts003.lab1.prv	NG with A	 		
1				
				Legend
riogress				
			[Close]	Help
		Fig.47	[lose]	<u>H</u> elp
lose per uscire.	• (Fig.47	(<u>C</u> lose)	<u>H</u> elp
lose per uscire.	~	Fig.47	[lose]	<u>H</u> elp
lose per uscire.	~	Fig.47	[lose]	<u>H</u> elp
lose per uscire.	<u>(</u>	Fig.47	(<u>Close</u>)	<u>H</u> elp
lose per uscire.		Fig.47	[]	<u>H</u> elp
lose per uscire.	ŝ	Fig.47	(<u>C</u> lose)	<u>H</u> elp
lose per uscire.		Fig.47	(Oose)	<u>H</u> elp
lose per uscire.	ŝ	Fig.47	(<u>Close</u>)	<u>H</u> elp
lose per uscire.		Fig.47	(<u>Close</u>)	<u>H</u> elp
lose per uscire.		Fig.47	Close	<u>H</u> elp



Adesso da **Start**, **Programmi**, **Check Point SmartConsole R55** selezioniamo l'utility **SmartView Status** Ci chiederà di fare di nuovo l'autenticazione per poi arrivare alla seguente schermata

📅 to1cltn009 - Check Point Smart¥iew Status				
<u> Eile View Tree Products System Alert Tools Window H</u> elp				
🕽 🔁 🖃 🎹 🖸 🗰 🖬 💷	🗟 ● 🗗 🗖	. 💷 🎫 📘 🛤	💾 🕨 🗉	₩ ?
😵 System Status 🕎 System Alert				
Check Point Gateways	IP Address	Status	Updated	Gateway Details
🖃 🖃 👷 to1 cltn009				Status: OK
📄 🕞 to1clts003.lab1.prv	10.1.1.37	₽₽ОК	11:38:31	IP Address: 10.1.1.26
to1cltn011.lab1.prv	10.1.1.25	⊊ик	11:38:31	Comment:
FireWall-1		🗸 ОК	11:38:31	
		🗸 ОК	11:38:31	
ClusterXL		🗸 ОК	11:38:31	
SVN Foundation		✔ОК	11:38:31	
to1cltn012.lab1.prv	10.1.1.26	₽₽ОК	11:38:25	
FireWall-1		🗸 ОК	11:38:25	
- 🙃 VPN-1		🗸 ОК	11:38:25	
ClusterXL		🗸 ОК	11:38:25	
SVN Foundation		🗸 ОК	11:38:25	
📋 🗄 📆 TO1CLTN009	10.1.1.35	⊐⊋ок	11:38:52	
📕 🚽 🖶 Management		🗸 ОК	11:38:52	
SVN Foundation		🗸 ОК	11:38:52	
P				

Fig.48

Se non c'è nessun problema dovrebbe essere tutto verde con gli **OK** di fianco.