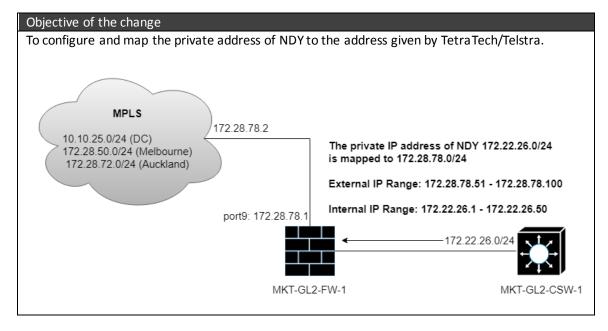
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Process Owner: IT Operations	Configuration Change Request	F-CMG-3.1

Request Information					
Requestor	Net	Network Operations			
Implementing Team	Net	work Operations	;		
Ticket Number/s	201916132				
Change Classification	Х	Major			Minor
After the fact		Yes		Χ	No
Emergency		Yes		Χ	No
Proposed Change Date	Jun	e 6, 2019			
Proposed Change Start/End Time	6:00 PM - 8:00 PM				
Proposed Change Verification Time	7:0	7:00 PM			



Technical/Operational Impact of	the change	
Negative:	Beneficial:	Neutral:
Additional CPU and Memory	All tools of NDY will pass thru	Additional cable for MKT-GL2-
consumption due to NAT and	their own MPLS network.	FW-2 for redundancy.
port6.		·

Affected	Affected IT Infrastructure components				
Site	Hostname	IP Address	Function		
G2	MKT-GL2-FW-1	172.17.3.102	Site Firewall		
G2	MKT-GL2-FW-2	172.17.3.102	Site Firewall		

Affected Departments and	corresponding contact persons	
Department	Contact Name	Contact Info
IT	Rynel Yanes	09178535630
Network Operations	Maurice Mendoza	09176328103

	Proprietary and Confidential	Effectivity:	Page 1
OPEN ACCESS WE SPEAK YOUR LANGUAGE	. roprically and confidential	April 1, 2019	Template Version : 02

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Test Environment implementation and Verification Summary

Testing will be after the implementation since there's no available test environment.

Test Environment Results Summary

Per testing, all networks given 10.10.25.0/24, 172.25.50.0/24, 172.28.72.0/24 should be reachable via NDY's private segment 172.22.26.0/24.



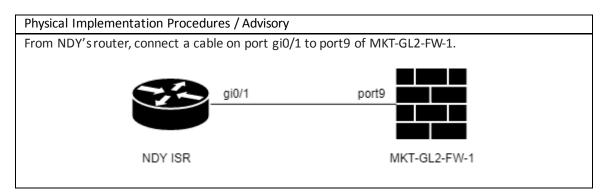
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Process Owner: IT Operations	Configuration Change Request	F-CMG-3.1

Configuration Change Template

Baseline File	3.1.10.2
Baseline Version	April 18, 2019

Baseline File Changes:

Existing Configuration	Proposed Change	Impact	Section
There are no existing	To add IPv4 Policies, Static	IPv4 Policies, Static	3.1.10.2
configurations.	Routing, and NAT for NDY.	Routing, Virtual IPs, IP	
		Pools, Address	
		Objects/Groups	



Backup Procedures

Access FortiGate G2 via Web.

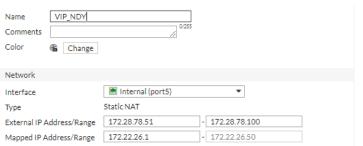
Backup the configurations files using the naming conventions:

BACKUP_DEVICENAME_DATE.cfg

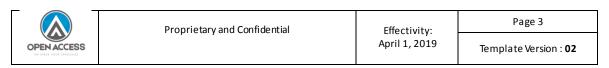
Example: BACKUP_MKT-GL2-FW-1_642019.cfg

Technical Configuration Procedures

- 1. Access FortiGate G2 via Web.
- 2. Navigate to Policy & Objects then Virtual IPs. Create new Virtual IP with the following details:



3. Navigate to Policy & Objects then IP Pools. Create new IP Pools with the following details:



4. Navigate to Network then Interfaces. Edit port9 with the following details:

Alias: NDY Role: LAN

Addressing mode: Manual

IP/Network Mask: 172.28.78.1/24 Administrative Access: PING Interface State: Enabled

5. Navigate to Network then Static Routes. Create new route entries with the following details:

Destination: Subnet - 10.10.25.0/24

Interface: port9(NDY)

Gateway Address: 172.28.78.2 Administrative Distance: 10

Comments: NDY DC Status: Enabled

Destination: Subnet - 172.28.50.0/24

Interface: port9(NDY)

Gateway Address: 172.28.78.2 Administrative Distance: 10 Comments: NDY Melbourne

Status: Enabled

Destination: Subnet - 172.28.72.0/24

Interface: port9(NDY)

Gateway Address: 172.28.78.2 Administrative Distance: 10 Comments: NDY Auckland

Status: Enabled

6. Navigate to Policy & Objects then Addresses. Create new Address objects and group with the following details:

Name: EXT_NDY_DC

Type: Subnet

Subnet / IP Range: 10.10.25.0/24



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Name: EXT_NDY_Melbourne

Type: Subnet

Subnet / IP Range: 172.28.50.0/24

Name: EXT_NDY_Auckland

Type: Subnet

Subnet / IP Range: 172.28.72.0/24

Address Group
Name: EXT_GR_NDY

Members: EXT_NDY_DC, EXT_NDY_Melbourne, EXT_NDY_Auckland

7. Navigate to Policy & Objects then Services. Create new Category, Service, and Service Group.

Category

Name: NDY Services

Services

Name	Comment	Category	Туре	Destinat	ion Port
NDY_53	DNS	NDY Services	TCP/UDP/SCTP	TCP - 53	UDP - 53
NDY_80	НТТР	NDY Services	TCP/UDP/SCTP	TCP - 80	UDP - 80
NDY_443	HTTPS	NDY Services	TCP/UDP/SCTP	TCP - 443	
NDY_123	NTP	NDY Services	TCP/UDP/SCTP	TCP - 123	UDP - 123
NDY_389	LDAP	NDY Services	TCP/UDP/SCTP		UDP - 389
NDY_636	LDAP	NDY Services	TCP/UDP/SCTP	TCP - 636	
NDY_1494	ICA	NDY Services	TCP/UDP/SCTP	TCP - 1494	UDP - 1494
NDY_1812	Radius	NDY Services	TCP/UDP/SCTP	TCP - 1812	UDP - 1812
NDY_2589	Session	NDY Services	TCP/UDP/SCTP	TCP - 2589	UDP - 2589
NDY_3268	LDAP	NDY Services	TCP/UDP/SCTP		UDP - 3268
NDY_3269	LDAP	NDY Services	TCP/UDP/SCTP	TCP - 3269	
NDY_9080	Active Sync	NDY Services	TCP/UDP/SCTP	TCP - 9080	UDP - 9080
NDY_9443	HTTPS	NDY Services	TCP/UDP/SCTP	TCP - 9443	UDP - 9443
NDY_8443	HTTPS	NDY Services	TCP/UDP/SCTP	TCP - 9443	UDP - 9443

Service Group

Name: NDY Ports

Members: NDY_53, NDY_80, NDY_443, NDY_123, NDY_389, NDY_636, NDY_1494, NDY_1812, NDY_2589, NDY_3268, NDY_3269, NDY_9080, NDY_9443,

NDY_8443



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8. Navigate to Policy & Objects then IPv4 Policy. Create new IPv4 Policies for the outbound traffic with the following details:

Name: PublishRule NDY to Citrix Outbound

Incoming Interface: internal(port5) Outgoing Interface: NDY(port9)

Source: INT_SUB_NDY Destination: EXT_GR_NDY

Schedule: always Service: NDY Ports Action: ACCEPT

NAT: Enabled

IP Pool: Use Dynamic IP Pool - Pool NDY

Log Allowed Traffic: Enabled - Security Events

Verification Procedures

- 1. Coordinate with NDY agents and have them test their Citrix connectivity.
- 2. Go to the Forward Logs of FortiGate and filter it by Policy: PublishRule NDY to Citrix Outbound. There should be a traffic passing thru.

Back-out Procedures

- 1. Navigate to Policy & Objects then IPv4 Policy. Delete the IPv4 Policy named PublishRule NDY to Citrix Outbound.
- 2. Navigate to Policy & Objects then Addresses. Delete the following Address group and objects:

Address Group

EXT_GR_NDY

Address Object

EXT_NDY_DC

EXT_NDY_Melbourne

EXT_NDY_Auckland

- 3. Navigate to Policy & Objects then Services. Delete all the services listed below:
- 4. Navigate to Policy & Objects then Services. Create new Category, Service, and Service Group.

Category

Name: NDY Services



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Services

Name	Comment	Category	Туре	Destination Port	
NDY_53	DNS	NDY Services	TCP/UDP/SCTP	TCP - 53	UDP - 53
NDY_80	НТТР	NDY Services	TCP/UDP/SCTP	TCP - 80	UDP - 80
NDY_443	HTTPS	NDY Services	TCP/UDP/SCTP	TCP - 443	
NDY_123	NTP	NDY Services	TCP/UDP/SCTP	TCP - 123	UDP - 123
NDY_389	LDAP	NDY Services	TCP/UDP/SCTP		UDP - 389
NDY_636	LDAP	NDY Services	TCP/UDP/SCTP	TCP - 636	
NDY_1494	ICA	NDY Services	TCP/UDP/SCTP	TCP - 1494	UDP - 1494
NDY_1812	Radius	NDY Services	TCP/UDP/SCTP	TCP - 1812	UDP - 1812
NDY_2589	Session	NDY Services	TCP/UDP/SCTP	TCP - 2589	UDP - 2589
NDY_3268	LDAP	NDY Services	TCP/UDP/SCTP		UDP - 3268
NDY_3269	LDAP	NDY Services	TCP/UDP/SCTP	TCP - 3269	
NDY_9080	Active Sync	NDY Services	TCP/UDP/SCTP	TCP - 9080	UDP - 9080
NDY_9443	HTTPS	NDY Services	TCP/UDP/SCTP	TCP - 9443	UDP - 9443
NDY_8443	HTTPS	NDY Services	TCP/UDP/SCTP	TCP - 9443	UDP - 9443

Service Group

Name: NDY Ports

Members: NDY_53, NDY_80, NDY_443, NDY_123, NDY_389, NDY_636, NDY_1494, NDY_1812, NDY_2589, NDY_3268, NDY_3269, NDY_9080, NDY_9443,

NDY 8443

5. Navigate to Network then Static Routes. Delete all the route entries going to NDY.

Destination: Subnet - 10.10.25.0/24

Interface: port9(NDY)

Gateway Address: 172.28.78.2 Administrative Distance: 10

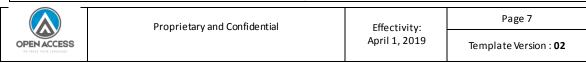
Comments: NDY DC

Destination: Subnet - 172.28.50.0/24

Interface: port9(NDY)

Gateway Address: 172.28.78.2 Administrative Distance: 10 Comments: NDY Melbourne

Destination: Subnet - 172.28.72.0/24



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Interface: port9(NDY)

Gateway Address: 172.28.78.2 Administrative Distance: 10 Comments: NDY Auckland

6. Navigate to Network then Interfaces. Edit port9 to its default properties.

Alias: none Role: undefined

Addressing mode: dhcp Administrative Access: none Interface State: Disabled

- 7. Navigate to Policy & Objects then IP Pools. Delete the IP Pool named **Pool_NDY**.
- 8. Navigate to Policy & Objects then Virtual IPs. Delete the Virtual IP named **VIP_NDY**.

