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

Request Information				
Requestor	lan	Ian John Lastimoso		
Implementing Team	Net	twork Operations		
Ticket Number/s	201915324			
Change Classification	Х	Major		Minor
After the fact		Yes	Х	No
Emergency		Yes	Х	No
Proposed Change Date		y 11, 2019		
Proposed Change Start/End Time	6:00 PM			
Proposed Change Verification Time	7:00 PM			

Objective of the change

Implementation of VLAN 228 on Core switch and Web Filter, Application Control & IPv4 policies for Firewall

Technical/Operational Impact of the change				
Negative:	Beneficial:	Neutral:		
High Utilization of RAM and CPU usage on the Firewall during the Implementation	Segment Implementation for DATA_SCAN Clinic campaign	Access Switches connected to Core switch		
	FSSO user based access will be			
	implemented			

Affected IT Infrastructure components			
Site	Hostname	IP Address	Function
G2	MKT-GL2-	172.22.2.1	Core Switch
	CSW-1		
G2	MKT-GL2-	172.22.0.75	Firewall
	FW-1		

Affected Departments and corresponding contact persons				
Department	Contact Name	Contact Info		
IT	Rynel Yanes	09178535630		
Network Operations Maurice Mendoza 09176881085				

Test Environment implementation and Verification Summary

No Test Environment needed as this was implemented before. *Please refer on this ticket* #201914195

Test Environment Results Summary

Implementation was a success based on the previous Implementations. *Please refer on this ticket* #201914195

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Configuration Change Template

Baseline File	3.1.101, 3.1.401, 3.1.402, 3.1.403, 3.1.404
Baseline Version	As of March 01, 2019

Baseline File Changes:

Existing Configuration	Proposed Change	Impact	Section
No separate segment	Create new VLAN, address	VLAN Database,	3.1.101,
for DATA_SCAN	group, ipv4 policy and WAN	Address Object,	3.1.102,
campaign	LLB Rules specially for	Ipv4 Policies,	3.1.402,
	DATA_SCAN	Address Group	3.1.403,
MKT-GL2-FW1:		Web Filter	3.1.404,
No existing IPv4 Policy	DHCP Server:		3.1.405
for DataScan	Create IP Pool for DataScan		
	with an IP address of		
DHCP Server:	172.22.28.0/24		
No existing IP pool for			
DataScan	FSSO Implementation for User		
	Based Policy and Access		

Physical Implementation Procedures / Advisory		
N/A		

Backup Procedures

- I. Part A (Switch Configuration)
 - 1. Access G2 Core Switch via SSH (172.22.2.1)
 - 2. Run the command "Show run".
 - 3. Highlight all the text and paste it to notepad with the naming convention and save it inside \\172.17.0.124\it \Back Up\Network Backup Logs
- II. Part B (Firewall Configuration)
 - 1. Access G2 Firewall (https://172.22.0.75:10443)

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- 2. Backup Configuration with the following naming convention and then save it inside \\172.17.0.124 \IT\Back up\G2_FW
- 3. BACKUP;Device;Date;Time,.Extension e.g. BACKUP_G2_07152017_17:45.cfg

III. Part C (DHCP Configuration)

- 1. Access G2 AD via RDP
- 2. Open the DHCP Management by typing dhcpmgmt.msc
- 3. Click on the DHCP Server then right click choose Backup

Create New folder and name it DHCP<Date> then click OK to save.

Physical Implementation Procedures		
N/A		

Technical Configuration Procedures

- I. PART A (Switch Configuration)
 - A. Access G2 Core Switch via SSH (172.22.2.1)
 - B. Enter the following commands below line by line

en
conf t
vlan 228
name DATA_SCAN
exit
interface Vlan228
description GW_DATA_SCAN
ip address 172.22.28.253 255.255.255.0
ip helper-address 172.22.1.1
end
wr



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II. PART B (Firewall Configuration)

A. Login to Fortigate G2 (https://172.22.0.75:10443)

B. Policy & Object > Addresses > Click on Create new and select Addresses

Name: INT_SUB_DATA_SCAN Subnet/IPRange: 172.22.28.0/24

C. Click Create New and select Address Group.

Group name: **EXE_GR_DATA_SCAN_Managers_TLs**

Members: Bypass NULL

D. Go to Security Profile > Web Filter

Click the + button at the upper right corner to create new web filter.

Name: WF_DATA_SCAN

Follow the Category Filter

Category	Name	Action
Local Categories	OAM_Blocked	Block
	Child Abuse	Block
	Discrimination	Block
	Drug Abuse	Block
	Explicit Violence	Block
Potentially Liable	Extremist Groups	Block
	Hacking	Block
	Illegal or Unethical	Block
	Plagiarism	Block
	Proxy Avoidance	Block
	Abortion	Block
Adult / Mature Content	Advocacy Organizations	Block
	Alcohol	Block

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		_
	Alternative Beliefs	Block
	Dating	Block
	Gambling	Block
	Lingerie and Swimsuit	Block
	Marijuana	Block
	Nudity and Risque	Block
	Other Adult Materials	Block
	Pornography	Block
	Sex Education	Block
	Sports Hunting and War Games	Block
	Tobacco	Block
	Weapons (Sales)	Block
	File Sharing and Storage	Block
	Freeware and Software Downloads	Block
Bandwidth Consuming	Internet Radio and TV	Block
Bandwidth Consuming	Internet Telephony	Block
	Peer-to-peer File Sharing	Block
	Streaming Media and Download	Block
	Dynamic DNS	Block
Security Risk	Malicious Websites	Block
Security Kisk	Phishing	Block
	Spam URLs	Block
	Advertising	Allow
General Interest - Personal	Arts and Culture	Block
	Auction	Allow
	Brokerage and Trading	Allow
	Child Education	Allow
	Content Servers	Allow
	Digital Postcards	Allow
	Domain Parking	Allow
	Dynamic Content	Allow

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	Education	Allow
	Entertainment	Allow
	Folklore	Allow
	Games	Block
	Global Religion	Allow
	Health and Wellness	Allow
	Instant Messaging	Allow
	Job Search	Block
	Meaningless Content	Allow
	Medicine	Allow
	News and Media	Allow
	Newsgroups and Message Boards	Allow
	Personal Privacy	Allow
	Personal Vehicles	Allow
	Personal Websites and Blogs	Allow
	Political Organizations	Allow
	Real Estate	Allow
	Reference	Allow
	Restaurant and Dining	Allow
	Shopping	Allow
	Social Networking	Block
	Society and Lifestyles	Allow
	Sports	Allow
	Travel	Allow
	Web Chat	Block
	Web-based Email	Allow
	Armed Forces	Block
	Business	Allow
	Finance and Banking	Block
	General Organizations	Block
	Government and Legal Organizations	Block



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	Information Technology	Allow
	Information and Computer Security	Block
	Search Engines and Portals	Allow
	Secure Websites	Block
	Web Hosting	Block
	Web-based Applications	Block
Unrated	Unrated	Warning

E. Create new URL Filter and copy the lists of websites below.

Set of tools and web links to be given any time soon

- **F.** Create again DATA_SCAN Web Filter and name it as "WF_DATA_SCAN_Managers_TLs". Just copy all the category filter in step C.
- **G.** Go to **Security Profile** > **Application Control.** Click the + to add new application sensor.

Name: AC_DATA_SCAN

Copy the following Categories

Categories	Action
Botnet	Block
Business	Allow
<u>Cloud.IT</u>	Allow
Collaboration	Allow
Email	Allow
Game	Block
General.Interest	Allow
Mobile	Block
Network.Service	Allow
P2P	Block
Proxy	Block



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Remote.Access	Block
Social.Media	Block
Storage.Backup	Allow
Update	Block
Video/Audio	Block
VoIP	Block
Web.Client	Allow
Unknown Applications	Block

H. On Application Overrides, click **add signatures** and copy the following configuration:

Application Signature	Category	Action
Adobe.Flash.Media.Playback	Video/Audio	Block
Adobe.Update	Update	Block
Arctic.Torrent	P2P	Block
AVI.Media.Player	Video/Audio	Block
Baidu.Player	Video/Audio	Block
BBC.iPlayer	Video/Audio	Block
BitTorrent	P2P	Block
Chrome.Update	Update	Block
Citrix.CDN	Collaboration	Allow
Citrix.ICA	General Interest	Allow
Citrix.Receiver	Remote.Access	Allow
CTorrent	P2P	Block
ExtraTorrent	P2P	Block
Facebook	Social.Media	Block
Facebook_AppNameParameters Required	Social.Media	Block
Facebook_Apps	Social.Media	Block
Facebook_Like.Button	Social.Media	Block
Facebook_Personal	Social.Media	Block

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Facebook_Plugins	Social.Media	Block
Facebook_Search	Social.Media	Block
Facebook_Video.Play	Social.Media	Block
Firefox.Update	Update	Block
Flowplayer	Video/Audio	Block
G3.Torrent	P2P	Block
GOM.Player	Video/Audio	Block
Google.Play	General.Interest	Block
HTTP.Download.Accelerator	General.Interest	Block
HTTP.Segmented.Download	Network.Service	Block
Instagram	Social.Media	Block
Instagram_Video	Social.Media	Block
iTunes	Video/Audio	Block
iTunes_App.Download	Video/Audio	Block
iTunes_BroadCast	Video/Audio	Block
iTunes_Mobile	Video/Audio	Block
iTunes_Podcast	Video/Audio	Block
iTunes_Select.Play	Video/Audio	Block
iTunes_Store	Video/Audio	Block
LinkedIn	Social.Media	Block
LinkedIn_Message	Social.Media	Block
Microsoft.Authentication	Collaboration	Allow
Microsoft.Media.Server	Video/Audio	Block
Microsoft.Office.365	Collaboration	Allow
Microsoft.Portal	Collaboration	Allow
Microsoft.Outlook.Web.App	Collaboration	Allow
One Drive	Collaboration	Allow
Pipi.Player	P2P	Block
Playstation.Network	Game	Block
Skype	Collaboration	Allow
Skype.Portals	Collaboration	Allow

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Skype.For.Business	Collaboration	Allow
Spotify	Video/Audio	Block
SVT.Play	Video/Audio	Block
TorrentLocker.Botnet	Botnet	Block
TorrentSpy	P2P	Block
Torrentz	P2P	Block
Twitter	Social.Media	Block
Twitter_Message	Social.Media	Block
Veoh.Player	Video/Audio	Block
Viber	VoIP	Block
Windows.Media.Player	Video/Audio	Block
YouTube	Video/Audio	Block
YouTube.Downloader.YTD	Video/Audio	Block
YouTube_Comment.Posting	Video/Audio	Block
YouTube_HD.Streaming	Video/Audio	Block
YouTube_Search.Safety.Mode.Off	Video/Audio	Block
YouTube_Search.Video	Video/Audio	Block
YouTube_Video.Embedded	Video/Audio	Block

- I. Create again new Application Control profile and name it as "AC_DATA_SCAN_Managers_TLs". Just copy all the categories and application signature in step H.
- J. Navigate to Security Fabric > Fabric Connectors , then click on G2_FSSO > Groups > Look for FSSO_P_DATA_SCAN , right click then click "Add Selected"
- **K.** Navigate to User & Device > User Groups > Create New

Name: FSSO_P_DATA_SCAN
Type: Fortinet Single Sign On
Members: FSSO_P_DATA_SCAN

Click OK.



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- L. Navigate to Security Fabric > Fabric Connectors , then click on G2_FSSO > Groups > Look for FSSO_P_DATA_SCAN_TLs , right click then click "Add Selected"
- M. Navigate to User & Device > User Groups > Create New

Name: FSSO_P_DATA_SCAN_TLs Type: Fortinet Single Sign On Members: FSSO_P_DATA_SCAN

Click OK

N. Go to Policy & Objects > IPv4 Policy > Create New

Name: Privileged DATA_SCAN Incoming Interface: Internal(port16) Outgoing Interface: wan-load-balance Source: INT_GR_DATA_SCAN_Managers_TLs

FSS P DATA SCAN TLs

Destination Address: all

Schedule: Always Service: all Action: ACCEPT NAT: *Enable* Fixed Port: *Disable*

IP Pool Configuration: Use Outgoing Interface

AntiVirus: Disable

Web Filter: WF_DATA_SCAN_Managers_TLs

Application Control: AC_DATA_SCAN_Managers_TLs

IPS: Disable

SSL/SSH Inspection: Disable

Log Allowed Traffic: Enable – Security Sessions

Enable this policy: *Enable*

Click **OK**.

Create DATA_SCAN IPv4 Policy.

Go to Policy & Objects > IPv4 Policy > Create New

Name: CatchAll Policy DATA SCAN Incoming Interface: Internal(port16) Outgoing Interface: wan-load-balance

Source: INT SUB DATA SCAN



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FSSO P DATA SCAN

Destination Address: ALL

Schedule: *Always* Service: *ALL* Action: *ACCEPT* NAT: *Enable* Fixed Port: *Disable*

IP Pool Configuration: Use Outgoing Interface

AntiVirus: *Disable*

Web Filter: WF DATA SCAN

Application Control: AC_DATA_SCAN

IPS: Disable

SSL/SSH Inspection: Disable

Log Allowed Traffic: Enable – Security Events

Enable this policy: Enable

Click OK

P. Go to Network > WAN LLB RULES > Create New

Name: PR_INT_SUB_DATA_SCAN
Source Address: INT_SUB_DATA_SCAN

User Group: None Destination: *Address* Destination Address: *all*

Interface Members: Specify port2(Gateway: 210.213.124.2)

PART C (DHCP Configuration)

Ask Systems Team for creating new DHCP Pool.

VLAN 228: DATA_SCAN Network: 172.22.28.0/24

Range: 172.22.28.1 – 172.22.28.254 Exclusion: 172.22.28.252 – 172.22.28.254

Ask Systems Team to create new groups on FSSO folder in AD

Name: FSSO_P_DATA_SCAN Name: FSSO_P_DATA_SCAN_TLs



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Verification Procedures

• Do an "ipconfig" command in all DATA_SCAN workstations, to verify the network segment.

Test access the internet using Chrome or Firefox.

• IP address should be on 28 segments. Ex. 172.22.28.0

Back-out Procedures

I. Firewall Configuration

- a. Go to **Policy & Objects** > **IPv4 Policy** > Right click on *CatchAll Policy DATA_SCAN* and *Privileged Access DATA_SCAN and* select **delete**.
- b. Go to **Security Profile** > **Application Control** select *AC_ DATA_SCAN* and *AC_ DATA_SCAN_Managers_TLs*, then click the trash bin located at the upper right corner to delete. Click OK to confirm.
- c. Go to **Security Profile** > **Web Filter,** click this icon select *WF_DATA_SCAN* and *WF_DATA_SCAN_Managers_TLs* then click **delete**.
- d. Go to **Network > WAN LLB RULES** then select **PR_INT_SUB_** *DATA_SCAN* delete.
- e. Go to **Address > Create New > Address Group** select the group named **EXE_GR_ DATA_SCAN** then click delete to remove the group.
- f. Delete address object named INT_SUB_ DATA_SCAN.

II. Switch Configuration

a. Access G2 core switch via SSH. Copy all commands below line by line.

en conf t no vlan 228 no interface Vlan228 end wr



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III. DHCP Configuration

Access Hercules via RDP.

Delete DHCP Pool named Scope [172.22.28.0] DATA_SCAN

IV. Firewall Configuration

- a. Go to **Policy & Objects** > **IPv4 Policy** > Right click on *Privileged Access for DATA_SCAN* and select **delete**.
- b. Go to Security Profile > Application Control select AC_DATA_SCAN
 _Managers_TLs, then click the trash bin located at the upper right corner to delete. Click OK to confirm.
- c. Go to **Security Profile > Web Filter,** click the and select WF_ *DATA_SCAN* _Managers_TLs then click **delete**.
- d. Go to Policy & Objects > Address > Group. Select the group named EXE_GR_ DATA_SCAN _Managers_TLs then click delete to remove the group.

