Request Information

Requestor	Network Operations			
Implementing Team	Network Operations			
Ticket Number/s	201916604			
Change Classification	X	Major		Minor
After the fact		Yes	X	No
Emergency		Yes	X	No
Proposed Change Date	June 29, 2019			
Proposed Change Start/End Time	19:00			
Proposed Change Verification Time	19:20			

Objective of the change

For Circles campaign to access http://happiness.circles.asia via IPSec Tunnel from our office going to Circles network.

Technical/Operational Impact of the change

Negative:	Beneficial:	Neutral:
N/A – No possible downtime since this is just an additional IPSec Phase 2 configuration.	Circles campaign will be able to access http://happiness.circles.asia from our office network	Workstations, Access Switches

Affected IT Infrastructure components

Site	Hostname	IP Address	Function
JAKA	FGT60D4Q15036668	172.16.1.8	Network Firewall (Circles Life)
JAKA	THOR	172.17.3.106	Network Core Switch

Affected Departments and corresponding contact persons

Department	Contact Name	Contact Info
All	Rynel Yanes	09178535630
Network Operations	Maurice Mendoza	09176328103

Test Environment implementation and Verification Summary

No test environment is needed for this change as this was previously done by the Network Ops team.
Referenced change docs: **Circles Life New BRM Tool** | Submitted on January 30, 2019.

Test Environment Results Summary

Expected result of the change is Circles campaign will be able to access the new tool URL
http://happiness.circles.asia

Configuration Change Template

Baseline File	3.1.101
Baseline Version	April 23, 2019

Baseline File Changes:

Existing Configuration	Proposed Change	Impact	Section
ZEUS: No static route for **10.70.0.0/16** going to **172.16.1.8** (Circles Life Firewall)	**ZEUS:** Configure static route for **10.70.0.0/16** to **172.16.1.8** (Circles Life Firewall)	Routing, Core Switch	3.1.101

Physical Implementation Procedures / Advisory
No physical implementation or advisory is needed for the change.

Backup Procedures
1. Access **ZEUS** 172.17.3.106 via **SSH.** 2. Copy the **running-configuration** from the device to **.conf** file located to: \\172.17.0.124\it\Backup\Network Backup Logs Naming convention: **BACKUP_HOSTNAME_201906XX**.conf

Technical Configuration Procedures

I.   **Core Switch Configuration**
 	
1. Connect to the Fortigate **SSL VPN 10.1.0.100**.
2. Access **ZEUS 172.17.3.106** via **SSH**.
3. Once logged in, type the following commands:
 	
    en
    ip route 10.70.0.0 255.255.0.0 172.16.1.8
    wr
    exit
    exit

II. Firewall Configuration (Circles Fortigate)

1. Login to Circles Life FortGate Firewall **172.16.1.8** via **https**.
2. Navigate to **VPN > IPsec > Tunnels** > click on **Tunnel CIRCLES_LIFE** and click **Edit**.
3. Scroll down to **Phase 2 Selectors** then click **Add** with the following:

   Name: **CIRCLES_LIFE_newsubnet_4**
   Comments: <blank>
   Local Address: **172.18.36.0/255.255.255.0**
   Remote Address: **10.70.0.0/255.255.0.0**

   Click **OK.**

4. Repeat the step for Tunnel **CIRCLES_LIFE2** with the same data.
5. Navigate to **System > Network > Routing** > **Create New** with the following:

   Destination IP/Mask: **10.70.0.0/255.255.0.0**
   Device: **CIRCLES_LIFE**
   Administrative Distance: **10**
   Comments: <blank>

   Click **OK.**

6. Create again new **Static Routing** with the following:

   Destination IP/Mask: **10.70.0.0/255.255.0.0**
   Device: **CIRCLES_LIFE2**
   Administrative Distance: **10**
   Comments: <blank>

   Click **OK.**

III. Domain Controller Configuration (Windows Server – DNS Server)

1. RDP 172.17.3.1 using your domain admin credentials.
2. Press Windows + R keys simultaneously and enter dnsmgmt.msc to open the DNS Console
3. Expand the JKA-VWIN-DC01 DNS Server, then expand the Forward Lookup Zones
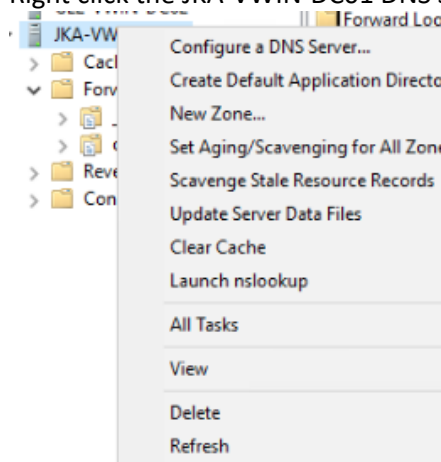4. Right-click on the openaccess.bpo zone > select New Host (A or AAAA)
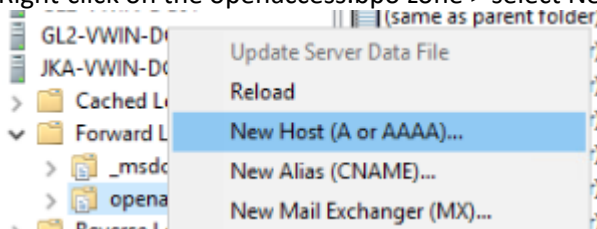
5. Enter the Name and the IP Address

6. Click on Add Host to save.
7. Right click the JKA-VWIN-DC01 DNS Server then select Refresh.

IV.   Coordinate with Systems Team
1. Coordinate with Systems Team to create GPO on Circles for hostfile to resolve happiness.circles.asia to 10.70.3.6 and 10.70.1.7.

Verification Procedures

1. Type on the browser of Circles workstation where the host file is also configured: http://happiness.circles.asia, for isolation, we can type on the browser 10.70.3.6/login or 10.70.1.7/login.

Back-out Procedures

1. Navigate to **Network** > **Routing** > search and delete for the following static route:

   10.70.0.0/16 – CIRCLES_LIFE
   10.70.0.0/16 – CIRCLES_LIFE2

2. Navigate to **VPN > IPsec > Tunnels >** search and delete **CIRCLES_LIFE_newsubnet_4Phase 2 selectors** for both Tunnel **CIRCLES_LIFE** and **CIRCLES_LIFE2.**

3. Access **ZEUS** via **SSH** then delete the static route of 10.70.0.0/16 by entering the command:

   no ip route 10.70.0.0 255.255.0.0 172.16.1.8
   wr