Dragoss Owners	FORM	
Process Owner: IT Operations	Re-enable DNS recursion for all DNS servers in Jaka and G2	F-CMG-3.1

Request Information					
Requestor	Alvi	Alvinn P. Medrano			
Implementing Team	Syst	Systems and Server Operations			
Ticket Number/s	201	.916267			
Change Classification	Х	Major		Minor	
After the fact		Yes	Х	No	
Emergency	Х	Yes		No	
Proposed Change Date	Jun	e 14, 2019	•		
Proposed Change Start/End Time	22:0	00			
Proposed Change Verification Time	23:	30			

Objective of the change

- To allow incoming DNS request
- To resolved external DNS on applications

Technical/Operational Impact of the change			
Negative:	Beneficial:	Neutral:	
DNS server resorts to Root Hints servers for outside resolution.	Allows your DNS server to receive a query for external names, forward the query to the remote server, and deliver the response to the requestor	Setting pretty much disables Root Hints forcing it to only rely on the Forwarders.	

Affected IT Infrastructure components				
Site	Hostname	IP Address	Function	
GL2	GL2-VWIN-DC01	172.22.1.1	Domain controller for G2 main	
GL2	GL2-VWIN-DC02	172.22.1.2	Domain controller 2 for G2	
JAKA	JKA-VWIN-DC01	172.17.0.121	Domain controller for Jaka main	

Affected Departments and Corresponding Contact Persons				
Department Contact Name Contact Info				
Server Operations	Rovie Salvatierra	0917-627-4325		

Test Environment implementation and Verification Summary

No Test implementation to be performed.

Test Environment Results Summary

No Test implementation to be performed.

Configuration Change Template

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

Dragoss Oumari	FORM	
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Baseline File	3.1.137 DOMAIN FOREST
Baseline Version	5

Baseline File Changes:

Existing Configuration	Proposed Change	Impact	Section
- 3.1.137 DOMAIN FOREST	- To revert the original DNS server settings and enable DNS recursion.	-Forces it to use its forwarder for all recursive queries	DNS

Physical Implementation Procedures / Advisory

No physical implementation to be performed.

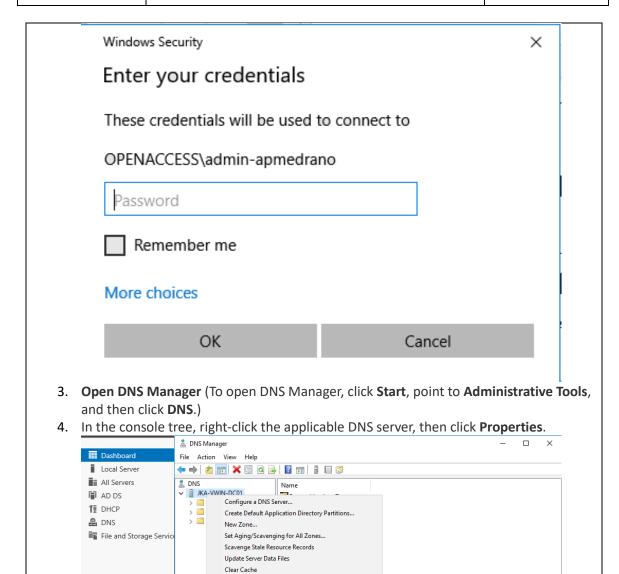
Backup Procedures

No back-up processes

Technical Configuration Procedures

- 1. Connect to FortiCliet VPN via DOU Security as MFA.
- 2. Access DNS server using their management IP via RDP and enter admin credentials.





- 5. Click the Advanced tab.
- 6. In Server options, select the Disable recursion check box to enable it.

Launch nslookup All Tasks

Refresh Export List...

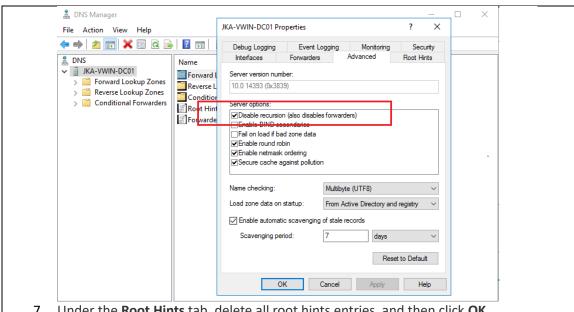


FORM

IT Operations

Re-enable DNS recursion for all DNS servers in Jaka and G2

F-CMG-3.1



- 7. Under the **Root Hints** tab, delete all root hints entries, and then click **OK**.
- 8. **Restart the DNS service** (from the Services control panel)

Verification Procedures

1. Verifying that DNS allow recursion from the outside of the network You can use the dns-recursion nmap script.

```
C:\>nmap -sU -p53 --script=dns-recursion 10.0.1.1
Starting Nmap 7.00 ( https://nmap.org ) at 2016-01-04 12:57 SA Pacific Standard
Whap scan report for 10.0.1.1
Host is up (0.0030s latency).
PORT STATE SERVICE
3/udp open domain
 _dns-recursion: Recursion appears to be enabled
MAC Address: 64:A5:C3:5D:38:5D (Apple)
```

2. If its disabled, you will only get an indication of an open port.

```
:\>nmap -sU -p53 --script=dns-recursion 200.13.2
Starting Nmap 7.00 ( https://nmap.org ) at 2016-01-04 12:58 SA Pacific Standard
Nmap scan report for
                              net.co (200.13.2
Host is up (0.012s latency).
     STATE SERVICE
PORT
3/udp open domain
 map done: 1 IP address (1 host up) scanned in 3.02 seconds
```



Dragoss Owners	FORM	
Process Owner:		F-CMG-3.1
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Back-out Procedures

- 1. **Open DNS Manager** (To open DNS Manager, click **Start**, point to **Administrative Tools**, and then click **DNS**.)
- 2. In the console tree, right-click the applicable DNS server, then click **Properties**.
- 3. Click the Advanced tab.
- 4. In **Server options**, select the **Disable recursion** check box.

