D	FORM	
Process Owner: IT Operations	Adjust Latency Threshold of CoreSite Servers in Nagios	F-CMG-3.1

Request Information				
Requestor	Rov	rie G. Salvatierra		
Implementing Team	Syst	Systems and Server Operations		
Ticket Number/s	201	.915330		
Change Classification		Major	Х	Minor
After the fact		Yes	Х	No
Emergency		Yes	Х	No
Proposed Change Date	Ma	y 10, 2019		
Proposed Change Start/End Time	18:00 - 20:00			
Proposed Change Verification Time	20:	15		

Objective of the change

To adjust the latency threshold of the following servers in Nagios:

- Batangas (208.74.77.163)
- Coron (208.74.77.164)
- Boracay (208.74.77.172)
- Pampanga (208.74.77.165)
- Rizal (208.74.77.167)

Technical/Operational Impact of the change			
Negative:	Beneficial:	Neutral:	
No server downtime during	False positive alerts will be	The graph will improve,	
the implementation, and no	removed, if not, reduced.	showing the server state to be	
production will be affected.		mostly OK.	

Affected IT Infrastructure components				
Site	Hostname	IP Address	Function	
GL2	JKA-VLIN-NMS01	172.22.9.4	Monitoring server in GL2	

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

Test Environment implementation and Verification Summary

We don't have a test environment for this, but we will test it with one CoreSite server, and see how the graph goes for a week.

If latency alert improves during the testing, we will proceed with the rest of the CoreSite servers listed in the Objective section.

- 1. Log on to Nagios server via SSH at 172.22.9.4 via port 3489, using your own credentials.
- 2. Switch to the root environment by sending the command sudo su -.

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

Process Owner: **IT Operations**

Adjust Latency Threshold of CoreSite Servers in Nagios

F-CMG-3.1

```
Rovver-GS:~ macbookpro$ ssh -l rsalvatierra 172.22.9.4 -p3489
rsalvatierra@172.22.9.4's password:
Last login: Tue Apr 16 18:27:00 2019 from 172.18.133.201
[rsalvatierra@gl2-vlin-nms01 ~]$ sudo su -
[sudo] password for rsalvatierra:
Last login: Wed May 1 18:56:33 PST 2019 on pts/0
[root@gl2-vlin-nms01 ~]#
```

Figure 1

3. Edit the configuration file by entering the command below:

> vi /nagios host/windows.cfg

4. Scroll down until you find the list US COLO SERVERS section of the file.

```
macbookpro — root@gi2-viin-nmsu'i:~
define service{
                                   local-service
      use
      host_name
                                   MKT-JKA-Batangas
                                   PING
      service description
      check command
                                   check ping!215.0,5
define service{
      use
                                   local-service
      host name
                                   MKT-JKA-Rizal
      service description
                                   PING
      check command
                                   check ping!170.0,5
define service{
                                   local-service
      use
      host_name
                                   MKT-JKA-Pampanga
      service_description
                                   PING
      check_command
                                   check ping!170.0,
define service{
      use
                                   local-service
                                   MKT-JKA-Boracay
      host_name
```

Figure 2

5. We will test this initially with Batangas server. Based on the historical data as shown below, the average RTA is 214.11ms, the minimum is 172.69ms, and the maximum is 225.56ms.

Adjust Latency Threshold of CoreSite Servers in Nagios

F-CMG-3.1

```
PING CRITICAL - Packet loss = 0%, RTA = 220.83 ms
PING CRITICAL - Packet loss = 0%, RTA = 219.74 ms
PING CRITICAL - Packet loss = 0%, RTA = 221.17 ms
PING CRITICAL - Packet loss = 0%, RTA = 221.17 ms
   04-01-2019 00:00:00 04-02-2019 00:00:00
                                                                                                                                                               1d 0h 0m 0s
                                                                                                                                                                                                                            SERVICE CRITICAL (HARD)
  1d 0h 0m 0s
1d 0h 0m 0s
                                                                                                                                                                                                                           SERVICE CRITICAL (HARD)
SERVICE CRITICAL (HARD)
  1d 0h 0m 0s
                                                                                                                                                                                                                          SERVICE CRITICAL (HARD)
                                                                                                                                                                                                                                                                                                                                         PING CRITICAL - Packet loss = 0%, RTA = 220.67 ms
                                                                                                                                                            1d 0h 0m 0s
                                                                                                                                                                                                                                                                                                                                        PING CRITICAL - Packet loss = 0%, RTA = 225.56 ms
PING CRITICAL - Packet loss = 0%, RTA = 223.79 ms
PING CRITICAL - Packet loss = 0%, RTA = 220.44 ms
  SERVICE CRITICAL (HARD)
  SERVICE CRITICAL (HARD)
SERVICE CRITICAL (HARD)
SERVICE CRITICAL (HARD)
                                                                                                                                                                                                                                                                                                                                      PING CRITICAL - Packet loss = 0%, RTA = 220.44 ms PING CRITICAL - Packet loss = 0%, RTA = 219.85 ms PING CRITICAL - Packet loss = 0%, RTA = 224.20 ms PING CRITICAL - Packet loss = 0%, RTA = 222.92 ms PING CRITICAL - Packet loss = 0%, RTA = 222.92 ms PING CRITICAL - Packet loss = 0%, RTA = 222.37 ms PING CRITICAL - Packet loss = 0%, RTA = 222.15 ms PING CRITICAL - Packet loss = 0%, RTA = 222.15 ms PING CRITICAL - Packet loss = 0%, RTA = 222.07 ms PING CRITICAL - Packet loss = 0%, RTA = 222.07 ms PING CRITICAL - Packet loss = 0%, RTA = 219.85 ms PING CRITICAL - Packet loss = 0%, RTA = 219.85 ms PING CRITICAL - Packet loss = 0%, RTA = 219.97 ms PING CRITICAL - Packet loss = 0%, RTA = 219.97 ms PING CRITICAL - Packet loss = 0%, RTA = 219.85 ms PING CRITICAL - Packet loss = 0%, RTA = 219.85 ms PING CRITICAL - Packet loss = 0%, RTA = 219.85 ms PING CRITICAL - Packet loss = 0%, RTA = 219.84 ms PING CRITICAL - Packet loss = 0%, RTA = 219.85 ms PING CRITICAL - Packet loss = 0%, RTA = 220.63 ms PING CRITICAL - Packet loss = 0%, RTA = 220.63 ms PING CRITICAL - Packet loss = 0%, RTA = 220.63 ms PING CRITICAL - Packet loss = 0%, RTA = 220.63 ms
                                                                                                                                                                                                                         SERVICE CRITICAL (HARD)
   04-09-2019 00:00:00 04-10-2019 00:00:00
  04-10-2019 00:00:00 04-10-2019 15:09:00 0d 15h 9m 0s
04-10-2019 15:09:00 04-10-2019 15:22:00 0d 0h 13m 0s
  04-10-2019 15:22:00 04-11-2019 00:00:00 0d 8h 38m 0s
04-11-2019 00:00:00 04-11-2019 00:00:00 1d 8h 8h 05

04-11-2019 00:00:00 04-12-2019 00:00:00 1d 0h 0m 0s

04-12-2019 00:00:00 04-13-2019 00:00:00 1d 0h 0m 0s

04-13-2019 00:00:00 04-13-2019 00:32:09 0d 9h 32m 9s

04-13-2019 00:32:09 04-13-2019 11:20:11 0d 1h 48m 2s

04-13-2019 11:20:11 04-14-2019 00:00:00 0d 12h 39m 49s
                                                                                                                                                                                                                       SERVICE CRITICAL (HARD)
SERVICE OK (HARD)
SERVICE CRITICAL (HARD)
  1d 0h 0m 0s
1d 0h 0m 0s
1d 0h 0m 0s
  04-18-2019 00:00:00 04-19-2019 00:00:00 1d 0h 0m 0s 
04-19-2019 00:00:00 04-20-2019 00:00:00 1d 0h 0m 0s 
04-20-2019 00:00:00 04-20-2019 20:17:33 0d 20h 17m 33s 
04-21-2019 00:00:00 04-22-2019 00:00:00 1d 0h 0m 0s
                                                                                                                                                             1d 0h 0m 0s
1d 0h 0m 0s
                                                                                                                                                                                                                                                                                                                                      PING CRITICAL - Packet loss = 0%, RTA = 220.63 ms PING CRITICAL - Packet loss = 0%, RTA = 219.80 ms PING CRITICAL - Packet loss = 0%, RTA = 219.77 ms PING CRITICAL - Packet loss = 0%, RTA = 219.76 ms PING CRITICAL - Packet loss = 0%, RTA = 219.76 ms PING OK - Packet loss = 0%, RTA = 213.12 ms PING CRITICAL - Packet loss = 0%, RTA = 213.12 ms PING CRITICAL - Packet loss = 0%, RTA = 213.21 ms PING CRITICAL - Packet loss = 0%, RTA = 213.29 ms PING CRITICAL - Packet loss = 0%, RTA = 213.29 ms PING CRITICAL - Packet loss = 0%, RTA = 213.29 ms PING CRITICAL - Packet loss = 0%, RTA = 213.29 ms PING CRITICAL - Packet loss = 0%, RTA = 213.17 ms PING CRITICAL - Packet loss = 0%, RTA = 213.10 ms PING CRITICAL - Packet loss = 0%, RTA = 213.20 ms PING CRITICAL - Packet loss = 0%, RTA = 213.20 ms PING CRITICAL - Packet loss = 0%, RTA = 213.20 ms PING CRITICAL - Packet loss = 0%, RTA = 213.20 ms PING CRITICAL - Packet loss = 0%, RTA = 213.20 ms PING CRITICAL - Packet loss = 0%, RTA = 213.21 ms PING CRITICAL - Packet loss = 0%, RTA = 213.20 ms PING CRITICAL - Packet loss = 0%, RTA = 213.21 ms PING CRITICAL - Packet loss = 0%, RTA = 213.21 ms PING CRITICAL - Packet loss = 0%, RTA = 213.21 ms PING CRITICAL - Packet loss = 0%, RTA = 213.21 ms PING CRITICAL - Packet loss = 0%, RTA = 213.21 ms PING CRITICAL - Packet loss = 0%, RTA = 213.21 ms PING CRITICAL - Packet loss = 0%, RTA = 213.21 ms PING CRITICAL - Packet loss = 0%, RTA = 213.21 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PING CRITICAL - Packet loss = 0%, RTA = 213.41 ms PI
                                                                                                                                                                                                                                                                                                                                         PING CRITICAL - Packet loss = 0%, RTA = 220.63 ms
  SERVICE CRITICAL (HARD)
                                                                                                                                                                                                                        SERVICE CRITICAL (HARD)
SERVICE CRITICAL (HARD)
SERVICE CRITICAL (HARD)
SERVICE OK (HARD)
SERVICE CRITICAL (HARD)
   04-23-2019 17:18:48 04-24-2019 00:00:00 0d 6h 41m 12s
  04-24-2019 00:00:00 04-25-2019 00:00:00 1d 0h 0m 0s  
04-26-2019 00:00:00 04-26-2019 00:00:00 1d 0h 0m 0s  
04-26-2019 00:00:00 04-27-2019 00:00:00 1d 0h 0m 0s  
04-27-2019 00:00:00 04-27-2019 88:38:59 0d 18h 38m 59s
                                                                                                                                                                                                                        SERVICE OR (HARD)
SERVICE OK (HARD)
SERVICE CRITICAL (HARD)
SERVICE CRITICAL (HARD)
SERVICE CRITICAL (HARD)
SERVICE CRITICAL (HARD)
SERVICE WARNING (HARD)
SERVICE WARNING (HARD)
  04-27-2019 18:38:59 04-27-2019 22:40:55 0d 4h 1m 56s 
04-27-2019 22:40:55 04-28-2019 00:00:00 0d 1h 19m 5s 
04-28-2019 00:00:00 04-29-2019 00:00:00 1d 0h 0m 0s
   SERVICE OK (HARD)
```

Figure 3

> press shift + A simultaneously to edit the file, then on the check command line, edit the check ping value and set the first value to 215.0 and the second value to 225.0

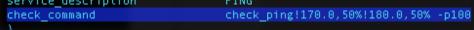


Figure 4

- Save the settings by pressing **esc**, then entering the command **:wq!**.
- Restart the service by entering service nagios restart.

Test Environment Results Summary

We are yet to gather the data after we have implemented the testing to Batangas server. We're expecting that the latency graph reports will improve.



D	FORM	
Process Owner: IT Operations	Adjust Latency Threshold of CoreSite Servers in Nagios	F-CMG-3.1

Configuration Change Template

Baseline File	3.1.140 JKA-VLIN-NMS01
Baseline Version	3

Baseline File Changes:

Existing Configuration	Proposed Change	Impact	Section
The average threshold is 170.0 and the critical is set to 180.0	Adjust the threshold.	The baseline for all CoreSite servers will be updated.	Configuration tab

Physical Implementation Procedures / Advisory

No physical implementation will be facilitated.

Backup Procedures

- 1. Log on to 172.22.9.4 via SSH using your own elevated credentials.
- 2. Switch to the root environment by entering the command **sudo su -**.
- 3. Navigate to Nagios host by sending the command cd /nagios_host.
- 4. Copy the configuration file to your local folder. See command below:
 - cp /nagios_host/windows.cfg /home/rsalvatierra/windows_mmddyyy.cfg
- 5. Log on to 172.17.0.1 (Backup storage) via SSH using your own credentials.
- 6. Switch to the root environment then navigate to the Monitoring database backup folder:
 - cd /four terra/home/Cacti DB/
- 7. Copy the back-up configuration file by sending the command below:
 - scp -P3489 rsalvatierra@172.22.9.4:/home/rsalvatierra/windows_mmddyyy.cfg .

Technical Configuration Procedures

We will only proceed with this when the result of the initial testing is successful.

- 1. Log on to Nagios server via SSH at 172.22.9.4 via port 3489, using your own credentials.
- 2. Switch to the root environment by sending the command sudo su -.
- 3. Edit the configuration file by entering the command below:vi /nagios_host/windows.cfg
- 4. Scroll down until you find the list US COLO SERVERS section of the file.
- 5. Press shift + A simultaneously to edit the file, then on the check_command line, edit the check ping value and set the first value to 215.0 and the second value to 225.0.
- 6. Save the settings by pressing **esc**, then entering the command :wq!.
- 7. Restart the service by entering **service nagios restart**.

	Proprietary and Confidential	Effectivity:	Page 4
OPEN ACCESS WE SPEAK YOUR LANGUAGE	Trophetar, and confidential	April 1, 2019	Template Version : 02

	FORM	
Process Owner: IT Operations	Adjust Latency Threshold of CoreSite Servers in Nagios	F-CMG-3.1

Verification Procedures

- 1. Log on to //172.22.9.4/nagios using the nagios credentials.
- 2. From the main page, click on Configuration > Services.
- 3. Scroll down and check each CoreSite server. The Check Command should show the updated values.

Command Name	Command Line	
To expand:	check_ping!170.0,50%!185.0,50% -p100	
check_ping	\$USER1\$/check_ping -H \$HOSTADDRESS\$ -w \$ARG1\$ -c \$ARG2\$ -p 5	
.>	\$USER1\$/check_ping -H \$HOSTADDRESS\$ -w 170.0,50% -c 185.0,50% -p100 -p 5	
	Enter the command_check definition from a host or service definition and press Go to see the expansion of the command	
To expand:	check_ping!170.0,50%!185.0,50% -p100	90

Figure 5

4. Check the latency graph from the Services section. The status should no longer show as critical.

Host ♣♣	Service ◆◆	Status ★ ♣	La
DEV_Biometrics_3rd_IN	PING	OK	05-
DEV_Biometrics_3rd_OUT	PING	OK	05-
DEV_Biometrics_5th_IN	PING	OK	05-
DEV_Biometrics_5th_OUT	PING	OK	05-
DEV_Biometrics_8th_IN	PING	OK	05-
DEV_Biometrics_8th_OUT	PING	OK	05-
DEV_Biometrics_9th_IN	PING	CRITICAL	05-
DEV_Biometrics_9th_OUT	PING	CRITICAL	05-
DEV_Biometrics_HRC_IN	PING	OK	05-
DEV Biometrics HRC OUT	PING	OK	05-

Figure 6

Back-out Procedures

- 1. Log on to 172.22.9.4 via SSH using your own elevated credentials.
- 2. Switch to the root environment by entering the command sudo su -.
- 3. Navigate to Nagios host by sending the command cd /nagios_host.
- 4. Copy the back-up configuration file by sending the command below:
 - scp -P3489 username@172.17.0.1: /four_terra/home/Cacti_DB/windows_mmddyyy.cfg .
- 5. Send the Is -I command; you should see windows configuration backup copy.
- 6. Switch the windows back-up configuration file and the current windows configuration file by entering the command below:
 - mv /nagios_host/windows.cfg /nagios_host/windows_old.cfg
 - mv /nagios_host/ windows_mmddyyy.cfg /nagios_host/windows.cfg
- 7. Restart the service by entering service nagios restart.



Process Owner: FORM			
IT Operations	Adjust Latency Threshold of CoreSite Servers in Nagios	F-CMG-3.1	