

Process Owner: IT Operations	FORM	F-CMG-3.1
	<i>Transfer Postmates' FTP to DMZ Segment</i>	

Request Information				
Requestor	Maurice Mendoza			
Implementing Team	Network Operations			
Ticket Number/s	201914930			
Change Classification	X	Major		Minor
After the fact		Yes	X	No
Emergency		Yes	X	No
Proposed Change Date	April 27, 2019			
Proposed Change Start/End Time	18:00 – 21:00			
Proposed Change Verification Time	20:00			

Objective of the change
To transfer Postmates' internal FTP server to DMZ and isolate it from the internal network.

Technical/Operational Impact of the change		
Negative: Additional CPU, Memory, and Disk utilization due to added Ipv4 Policies.	Beneficial: Postmates' FTP server will be isolated from the internal network.	Neutral: Movement of the Server to Rack 2 in PH1DL Data Centre.

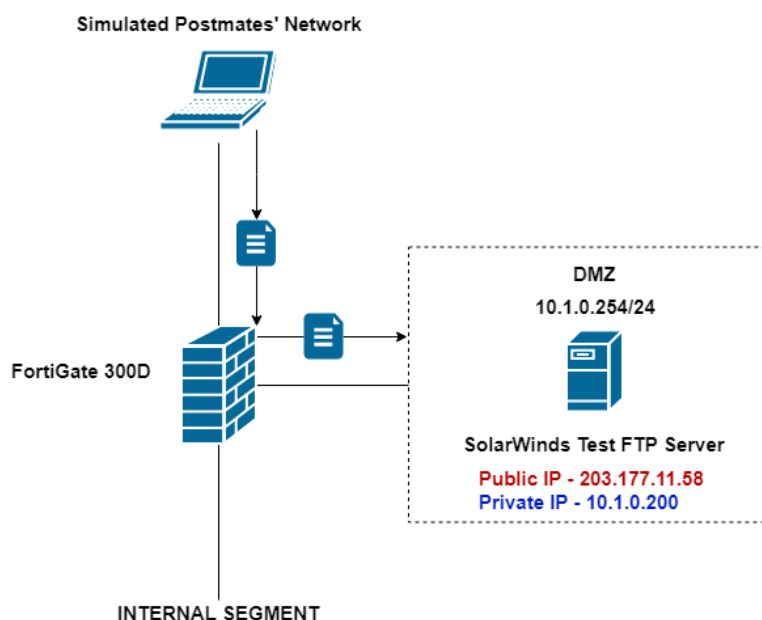
Affected IT Infrastructure components			
Site	Hostname	IP Address	Function
JAKA	THOR	172.16.1.2	Site Firewall

Affected Departments and corresponding contact persons		
Department	Contact Name	Contact Info
Postmates	Nate Martinez	nmartinez@openaccessbpo.com
IT	Rynel Yanes	09178535630
Network Operations	Maurice Mendoza	09176328103
Server Operations	Rovie Salvatierra	09176274325

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Test Environment implementation and Verification Summary

Refer to the topology below:



In the test environment, a test FTP server was moved to the DMZ Network and a Laptop was used to simulate the Postmates' Network. The Test FTP Server was mapped to the public IP 203.177.11.58.

The test was to save a file directly to the published FTP server in the DMZ Network.

It was then verified that the test was successful when the file appeared in the Test FTP Server.

Test Environment Results Summary

The test results showed that the file that was transferred from the Laptop to the Test FTP server appeared in the Test Server's Test Folder.

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Configuration Change Template

Baseline File	3.1.401, 3.1.402
Baseline Version	April 3, 2019

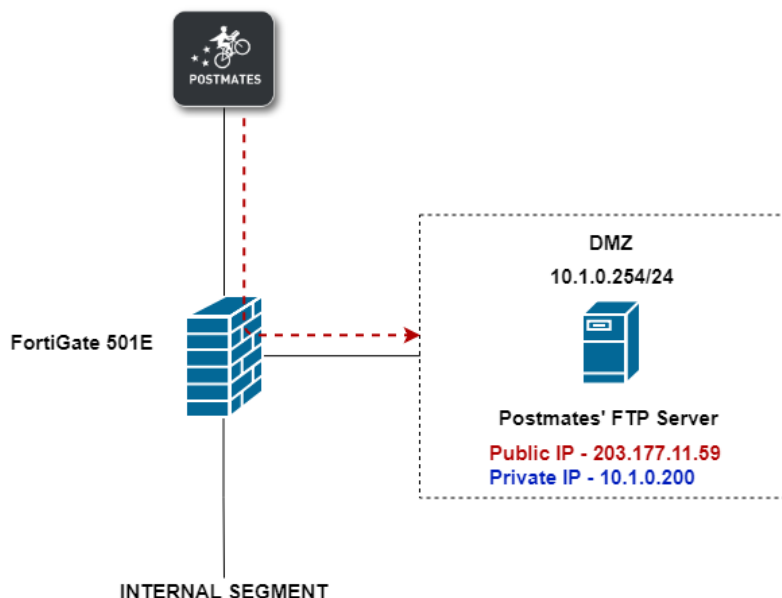
Baseline File Changes:

Existing Configuration	Proposed Change	Impact	Section
No existing IPv4 Policy for the FTP Server.	To add an Outbound to DMZ IPv4 Policy and Internal to DMZ for the FTP Server.	IPv4 Policies, Services, Virtual IP Pools	3.1.401, 3.1.402

Physical Implementation Procedures / Advisory

1. Transfer Postmates' FTP Server to Rack 1.
2. Connect the Postmates' FTP Server to port fa0/2 of the DMZ Access Switch.

Topology for this change:




Backup Procedures

Access FortiGate Jaka.

Backup the configurations files using the naming conventions:

BACKUP_DEVICENAME_DATE.cfg

Example: BACKUP_THOR_4272019.cfg

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Technical Configuration Procedures

1. Access FortiGate Thor via Web(<https://172.16.1.2:10443>)
2. Go to Policy & Objects > Addresses. Create new address object and group with the following details:

Name	IP Address
DMZ_SVR_PMFTP	10.1.0.200/32
EXT_POSTMATES_1	216.0.12.145/28
EXT_POSTMATES_2	23.228.156.241/28
EXT_POSTMATES_3	50.227.112.217/30
EXT_POSTMATES_4	135.84.162.37/30
EXT_POSTMATES_5	64.124.23.162/29
EXT_GR_POSTMATES	EXT_POSTMATES_1
	EXT_POSTMATES_2
	EXT_POSTMATES_3
	EXT_POSTMATES_4
	EXT_POSTMATES_5

3. Go to Virtual IPs then edit the Virtual IP **VIP_HRIS** with the following details:

Name: VIP_PMFTP
 External IP Address: 203.177.11.59
 Mapped IP Address: 10.1.0.200
 Port Forwarding: Enabled
 Protocol: TCP
 External Service Port: 20 – 21
 Map to Port: 20 – 21

4. Go to IPv4 Policy then create a new policy for OUTBOUND TO DMZ with the following details:

Name: PublishRule DMZ Postmates FTP
 Incoming Interface: SD-WAN
 Outgoing Interface: DMZ Network (port6)
 Source: EXT_GR_POSTMATES
 Destination: VIP_PMFTP
 Schedule: Always
 Service: SSH – since SFTP runs on SSH port 22
 Action: ACCEPT
 NAT: Disabled
 Security Profiles: None
 Log Allowed Traffic: Enabled – All Sessions

Move the policy below **PublishRule DMZ Elastix**.

5. Go to IPv4 Policy then create a new policy for INTERNAL to DMZ with the following details:

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Name: Internal to DMZ Postmates FTP
 Incoming Interface: Internal (port5)
 Outgoing Interface: DMZ Network (port6)
 Source: INT_SUB_POSTMATES, INT_SUB_IT_DEPT, INT_SUB_IT_G2
 Destination: DMZ_SVR_PMFTP
 Schedule: Always
 Service: PING, SSH – since SFTP runs on SSH port 22
 Action: ACCEPT
 NAT: Disabled
 Security Profiles: None
 Log Allowed Traffic: Enabled – All Sessions

Move the policy below **PublishRule DMZ Postmates FTP**.

Verification Procedures

1. From the Internal IT Segment, ping or access 10.1.0.200 via SSH. It should be accessible.
2. Create a test address (TEST_FTP) object with the IP address based on the public IP of a test PC connected to Globe BHM.
3. Add the recently created address object to the address group EXT_GR_POSTMATES.
4. Using the test PC, access the FTP server via explorer: <ftp://203.177.11.59>
5. Login using the given credentials from the server team then test by transferring a file directly.
6. Verify the test by checking the FTP Server's root folder. The transferred file should be there.
7. Once verification is completed, delete the TEST_FTP address object.

Back-out Procedures

1. Access FortiGate Thor via Web (<https://172.16.1.2:10443>)
2. Go to Policy & Objects > IPv4 Policy then delete the policy named: **PublishRule DMZ Postmates FTP and Internal to DMZ Postmates FTP**.
3. Go to Addresses then delete the following IP addresses:

Name	IP Address
DMZ_SVR_PMFTP	10.1.0.200/32
EXT_POSTMATES_1	216.0.12.145/28
EXT_POSTMATES_2	23.228.156.241/28
EXT_POSTMATES_3	50.227.112.217/30
EXT_POSTMATES_4	135.84.162.37/30
EXT_POSTMATES_5	64.124.23.162/29
EXT_GR_POSTMATES	EXT_POSTMATES_1
	EXT_POSTMATES_2
	EXT_POSTMATES_3
	EXT_POSTMATES_4
	EXT_POSTMATES_5

4. Go to Virtual IPs then delete the entry: **VIP_PMFTP**

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