

|                                 |   |           |
|---------------------------------|---|-----------|
| Process Owner:<br>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:<br>Additional CPU, Memory, and Disk utilization due to added Ipv4 Policies. | Beneficial:<br>Postmates' FTP server will be isolated from the internal network. | Neutral:<br>Movement of the Server to Rack 2 in PH1DL Data Centre. |

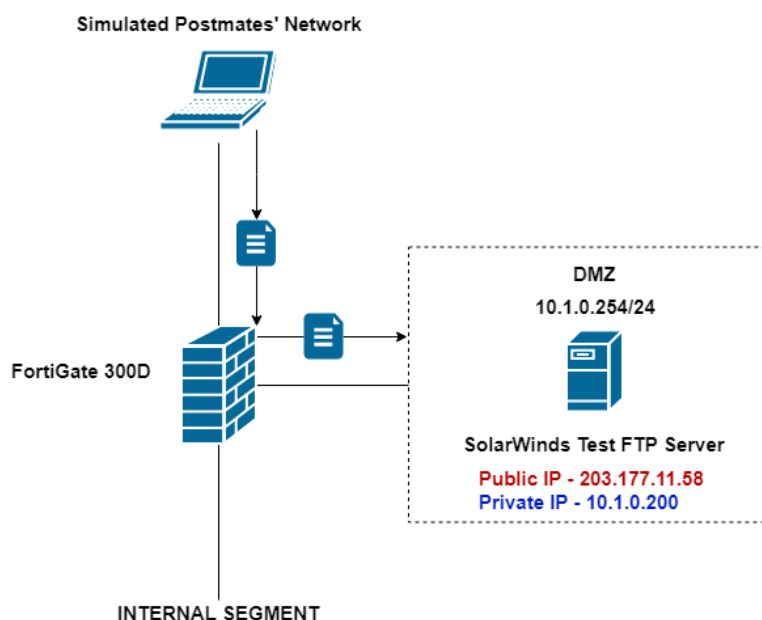
| Affected IT Infrastructure components |          |            |               |
|---------------------------------------|----------|------------|---------------|
| Site                                  | Hostname | IP Address | Function      |
| JAKA                                  | THOR     | 172.16.1.2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

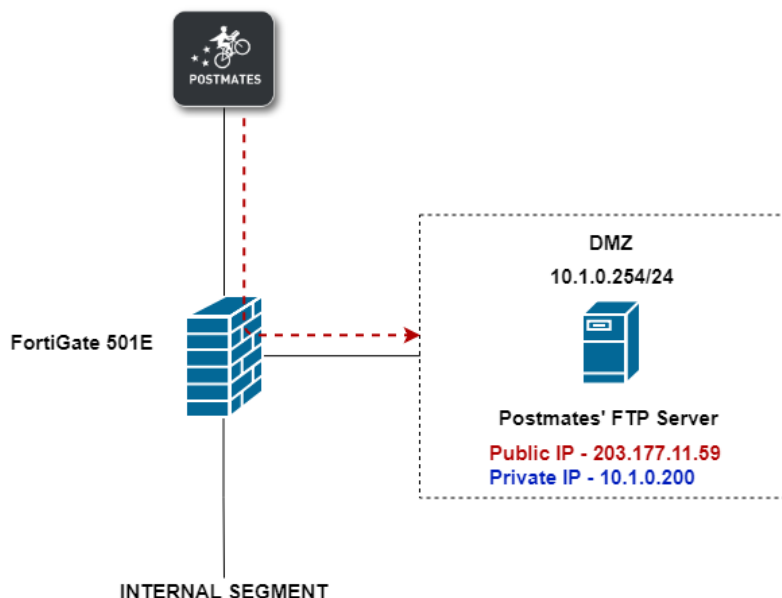
#### Baseline File Changes:

| 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

|   |                              |                               |                       |
|---|------------------------------|-------------------------------|-----------------------|
|  | Proprietary and Confidential | Effectivity:<br>April 1, 2019 | Page 3                |
|   |                              |                               | Template Version : 02 |

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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: 22  
 Map to Port: 22

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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