Standard Operating Procedure

*F5 Load Procedure*

## PURPOSE

* 1. The purpose of this standard operating procedure (SOP) is to provide a detailed step-by-step procedure on how to load F5 with new VIP and add NAT between F5 VIP and public IP. Procure free virtual IP from VIP subnet of infra nodes
  2. Procure public IP

## PROCEDURE

1. Devtest env.

In Devtest env., there is one VIP with backend pool members and infranode1 and infranode2 port 80. This VIP is natted to public IP. In Devtest env., there is only one public IP and multiple domains are mapped to this IP. To add new domain we need to add IT CN names in domains certificate installed on F5 at VIP:444 port.

1. Perf and Prod env.

In Perf and Prod env., there are multiple VIPs with backend pool member as infranode3 and infranode4 port 80 (TeaLeaf nodes). To expose new domains routes in OpenShift to the outside world, steps below can be performed.

* 1. Procure free virtual IP from VIP subnet of infra nodes

Raise request to IDEA-Infrastructure Automation-Cloud-Support on ServiceNow

* 1. Procure public IP

Raise request to IDEA-Infrastructure Automation-Cloud-Support on ServiceNow

* 1. Raise a request to network team to load F5 and create NAT between new F5 VIP and public IP on firewall.

F5 load procedures: (here 12.226.233.37 and 172.23.96.37) are new public IPs and VIPs for one new project.

Please check https://atlassian.marriott.com/browse/OSE-496 for details as an example.

1. Create NAT to point 12.226.233.37 to 172.23.96.37 on Checkpoints
2. Create an http profile for the VIP and set the value of “Request Header Erase” to X-Forwarded-Proto and set the value of “Request Header Insert” with mi-Forwarded-Proto: http or https depending on the service
3. Create pool ‘ram-e2e5.m.com\_80\_pool’ with pool members 172.23.97.57:80 and 172.23.97.58:80 on F5
4. Create virtual server named ram-e2e5.marriott.com 172.23.96.37:80 and 172.23.96.37:443 on F5
5. Attach ram-e2e5.m.com\_80\_pool to 172.23.96.37.80 and 172.23.96.37:443 on F5
6. Apply <name>.marriott.com certificate to virtual server 172.23.96.37:443 on F5 (Shetty, Bipin will provide)
7. Set clientssl profile with below:
   1. Ciphers should be set to DEFAULT:!DHE-RSA-DES-CBC3-SHA:!DES-CBC3-SHA:!ECDHE-RSA-DES-CBC3-SHA
   2. Enabled options should be
      1. Don’t insert empty fragments
      2. No DTLS
      3. No TLSv1.1
      4. No TLSv1

## VALIDATION

Test the connectivity of puublic and F5 vip by hitting openshift Router through pubic ip and F5 IP

1. curl -v http://<F5 VIP>/default.mi -H 'Host:<HOST ROUTE>'
2. curl -v <http://PUBLIC> IP>/default.mi -H 'Host:<HOST ROUTE>'

**Document Version Control**

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