**Syncrude – F5 BIG-IP External Load Balancer Technical Specification**

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## Introduction

## Purpose of the Document

This document has been created to provide information external F5 Load balancer setup for Syncrude environment.

## Target Audience

This will be a reference technical guide for IT stuff, who will be managing f5 services as per the need.

## Overview on working principal for BIG IP

The BIG-IP platform is a smart evolution of Application Delivery Controller (ADC) technology. Solutions built on this platform are load balancers plus full proxies that give visibility into, and the power to control, all the traffic that passes through your network. Each applications leverages separate virtual IP address, Pools and configuration. Will discuss more on External Load balancer placed in Syncrude network and the services offering currently.

## External BIG-IP device Information

## General Information

Device Name:

Mgmt IP:

GUI Access:

CLI Access:

HW Version:

Software Version:

Hosting VM Name:

## License Information

## Network Connected to F5

VLAN ID:

SUBNET:

## Uplink and Downlink Connections

Inside Device:

VRF Name:

Inside Device Interface:

Inside Device Interface IP:

Inside Device Description:

Outside Device:

VRF Name:

Outside Device Interface:

Outside Device Interface IP:

Outside Device Description:

## BIG-IP Self IP and VIP Information

Self IP Information:

VIP ():

## Routing and Traffic Flow

## Routing

BIG-IP use static routing only. The default Gateway is pointed towards VRF58 in CASYNIGW-LANDCO001 Device on 3112 dot1q tagging. The 192.161.173.0/28 will be routed from CASYNIGW-LANDCO001 to Northbound devices via Static/BGP.

## Traffic Flow

Each application has a virtual IP (VIP) associated with service on BIG-IP. To reach the application server, user should be routed to virtual IP address. This F5 placed on external zone so traffic from Internet will be hitting to this virtual server and F5 will be pointing that traffic towards internal F5 to get the actual server nodes. SNAT is enabled here. So while leaving the traffic from external F5 to internal F5 the source address of IP packet will be changed to its self IP.

## Example VIP configuration

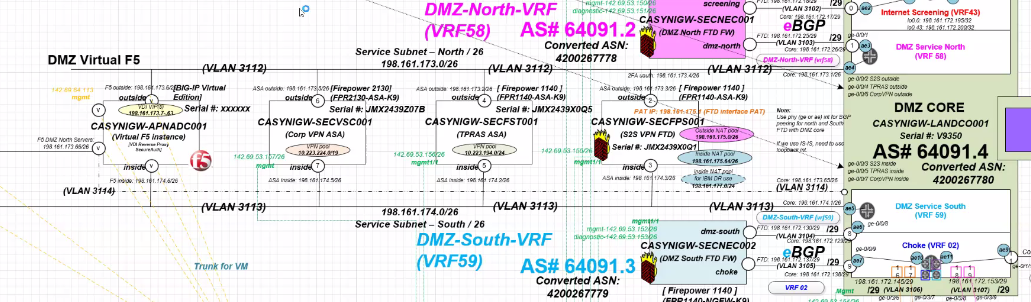
Application:

Virtual Server:

SharePoint Pool:

As of now (24th Sept, 2021) following VIPs are configured in device:

## Connectivity Diagram Snap



Thank you for your patience