**DotAmex API For External World**

**Objective:**

To make dotAmex API available for external vendors to call us and get short URL

**Overview:**

To make DotAmex API available to external world, we need to secure the end URL. Will need to setup the Authentication and Authorization mechanism to stop the misuse and secure it from vulnerability

**Steps** :

following are steps or level where we need to secure the application to expose it to external world. In the following all possible way are listed out as below

Step – 1 **Authentication and Authorization**: in following approach we will need to setup mechanism to Authenticate and Authorize the user to access the end point URL.

1. Vertx common authentication and authorization
2. OAuth Token (Application which will generate the OAuth token based on application id and secret)
3. JWT Token (Java Web Token)
4. Public and private key (SSH Key)

Step 2: **Deployment:**

1. Server deployed should be access to external world

Step -3: **Infrastructure**:

1. End should be secured with https

2. External WIP (External IP Address/host name exposed to external world)

3. Load balancer behind the WIP (hot and cold server) for the backup

4. Internal VIP (Server IP address which is mapping to WIP (external World) to internal to AMEX)