**Requirement Document for PROXY COMMANDLINE (ProxyCmd).**

**Problem statement**

As Admin/User I should be able to access the Switch console at “Aero Hive Manager”. All the communication/traffic should go through the “Aero Hive Agent”.

**Technical specification**

Hive Manager will be in Public Cloud. Hive Manger will request the Hive Agent for command line of switch, which is reside on enterprise side. Hive Agent only access the switch terminal as it’s in same network but directly Hive Manger will not.

Hive Manager will send the REST request to Hive Agent for terminal access. On response Hive Agent will provide the response and later on Hive Agent will access the web based console through which he will directly access the terminal.

In current requirement only single terminal session is allowed to access the console.

**Implementation details**

In order to get the end point terminal (switch), HM( hence forth HM for Hive Manager) will request the HA (hence forth HA for Hive Agent) through REST API (POST).

Request:-POST and BODY will contains the information like SwitchIp, HM Ip, HM UserName, HM Password, HM Port.

Response:-Response will be HTTP standard response code 200(HTTP\_OK) or if it fails then response HTTP\_ERROR with error description.

Basically we will create two SSH tunnels, one between HM and HA, this tunnel will be remote SSH port forwarding type. Second tunnel will be formed after first tunnel success response, which is in between HA and end point(Switch) and it will be a Local Port forwarding type.