

VLAN/DB AUTOMATION

Presented to MobileNOC

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Github: <https://github.com/syedtaqi/NoC-Automation>

Use Case:

- Small tool that sync the VLAN's on any given machine with database table. It should be able to sync vlans from Cisco, Arista, and Juniper switch.

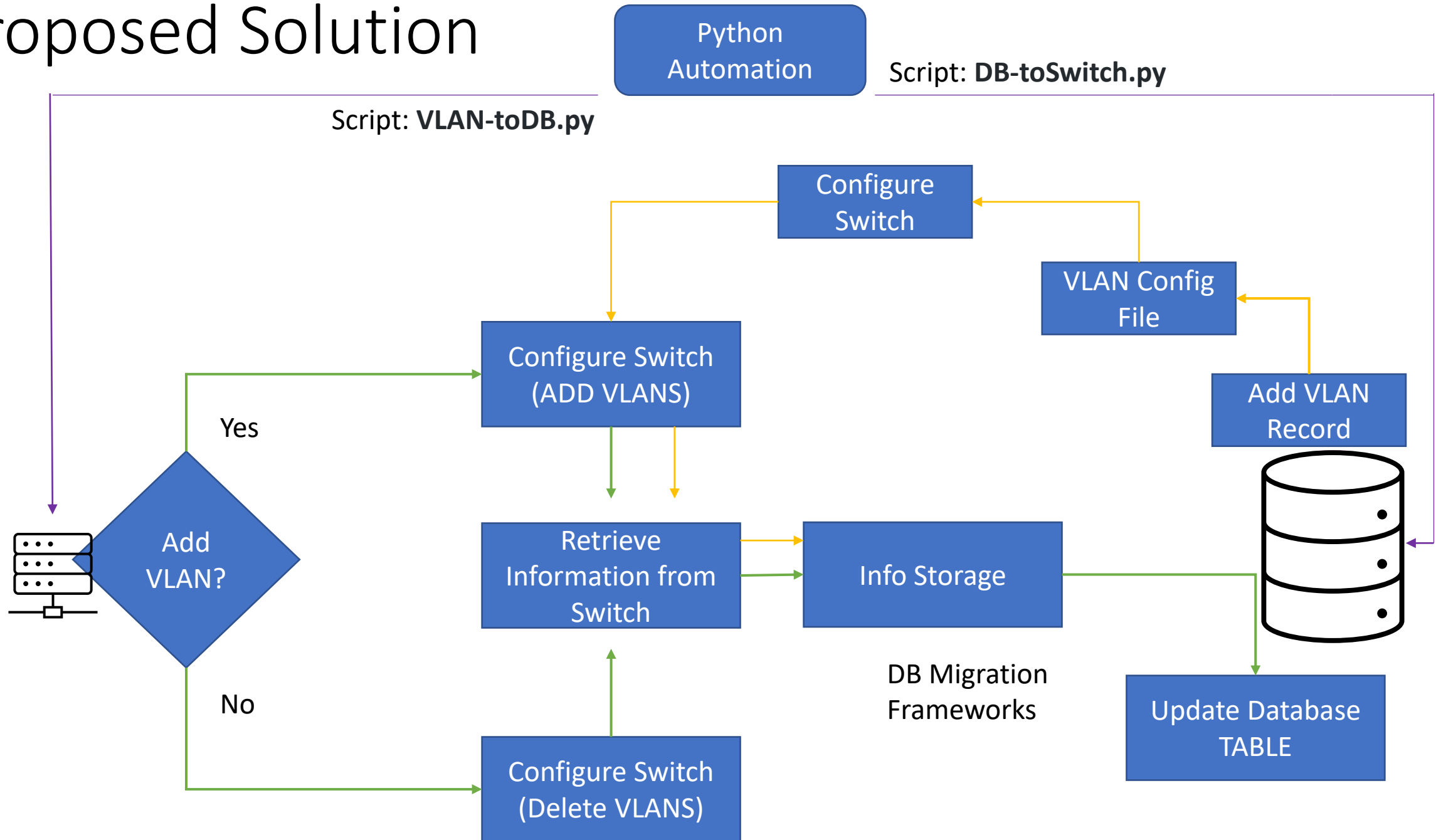
We need to have 1 table called VLANS with the below columns:

- 1- ID
- 2- NAME
- 3- DESCRIPTION

The application should sync any given Cisco switch VLANS with this table. Below some of the use cases

- 1- if new record added to database a new VLAN should be created on the router
- 2- If new VLAN added on the router it should be added to the table
- 3- Same as above for the UPDATE/DELTE
- 4- Create VLAN

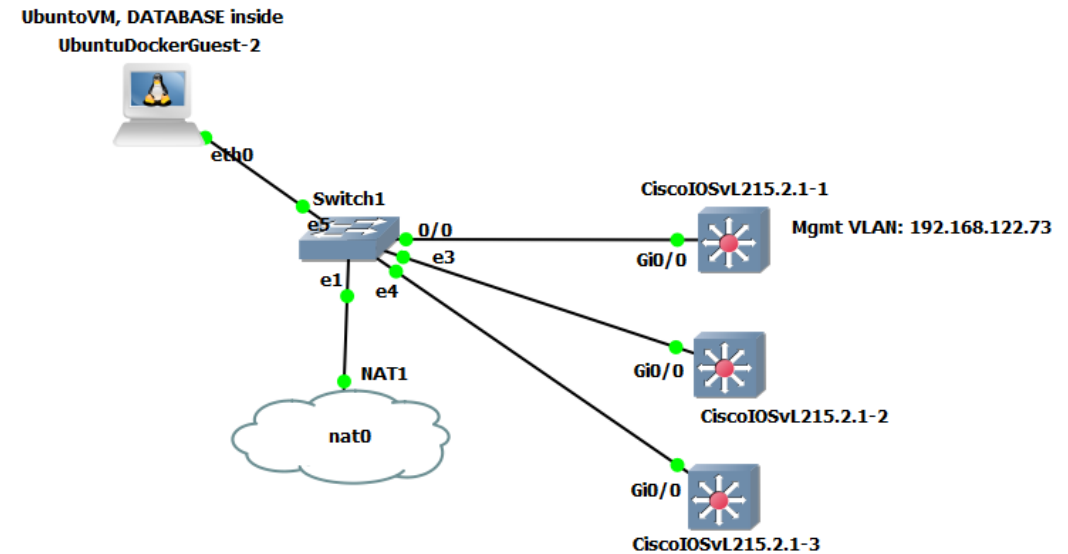
Proposed Solution



NETWORK TOPOLOGY (Built in GNS3)

-UbuntuVM Setup Environment:

- apt-get update
- apt-get install python -y
- apt-get install build-essential libssl-dev libffi-dev -y
- apt-get install python-pip -y
- apt-get install mysql-connector-python
- Pip install mysql-python
- Pip install pandas
- Pip install sqlalchemy
- Pip install pymysql
- python -m pip install cryptography==2.2.2
- python -m pip install netmiko==2.4.2



PYTHON AUTOMATION SCRIPTS:

- The scripts are available in Github to be reviewed...
- The scripts are Tested in GNS3

Github: <https://github.com/syedtaqi/NoC-Automation>