

# Dhcp lease Agent



# Introduction

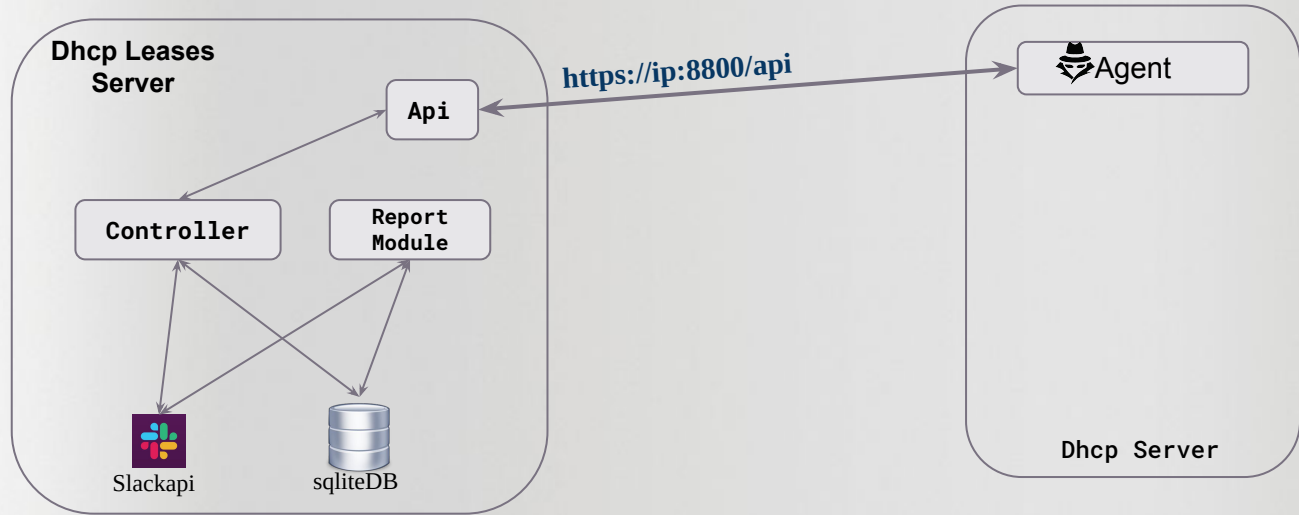
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- **Info:**
  - This tool have server-agent architecture.
  - Working on port 8800
- **Purpose :**
  - This application use auto check DHCP lease.
  - If lease expire or reaching full the it's sent notification in slack
- **Specification:**
  - Lang: Flask Python
  - DB: sqlite3





# Diagram



## Logic:

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1. Agent collect Data from log file and Sent to Api\_server.
2. Agent run every 10 mint by default. If you want you can change from agent configuration file.
3. Server Check Client in Genuine using request ip. Verify from database.
4. Then check lease information send to controller .
5. Controller Check and verify lease information.
6. If Lease is expired then call slack api with details,and store this new data in database for next comparison.
7. If lease is not expired then simple store data in database.

# Agent Directory Structure.

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- Agent Directory:
  - /var/lib/dhcpleaseAgent
- Agent File:
  - vim /etc/systemd/system/dhcpLeassAgent.service #Agent Service File
  - vim /var/lib/dhcpleaseAgent/dhcpleaseAgent.sh #Agent main file
  - vim /var/lib/dhcpleaseAgent/config.sh #agent Configuration file
- Agent Service:
  - **dhcpLeassAgent.service**



# Server Directory Structure.

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- Server Directory:
  - /var/www/dhcp\_api
- Server File:
  - vim /etc/systemd/system/dhcpLeassServer.service #Service File
  - /var/www/dhcp\_api/alery.py #Report module
  - /var/www/dhcp\_api/app.py #Main api
  - /var/www/dhcp\_api/dhcpleassDB.db #DB File
  - Cert.pem,key.pem #SSL keys
- Server Service:
  - **dhcpLeassServer.service**

## How to Configure Server and agent.

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**For Configuration Follow below Link:**



<https://github.com/Google-D/dhcpLeaseNotifier>



# THANKS!

*Any questions?*

You can find me at

D&Y

