

Dhcp lease Agent

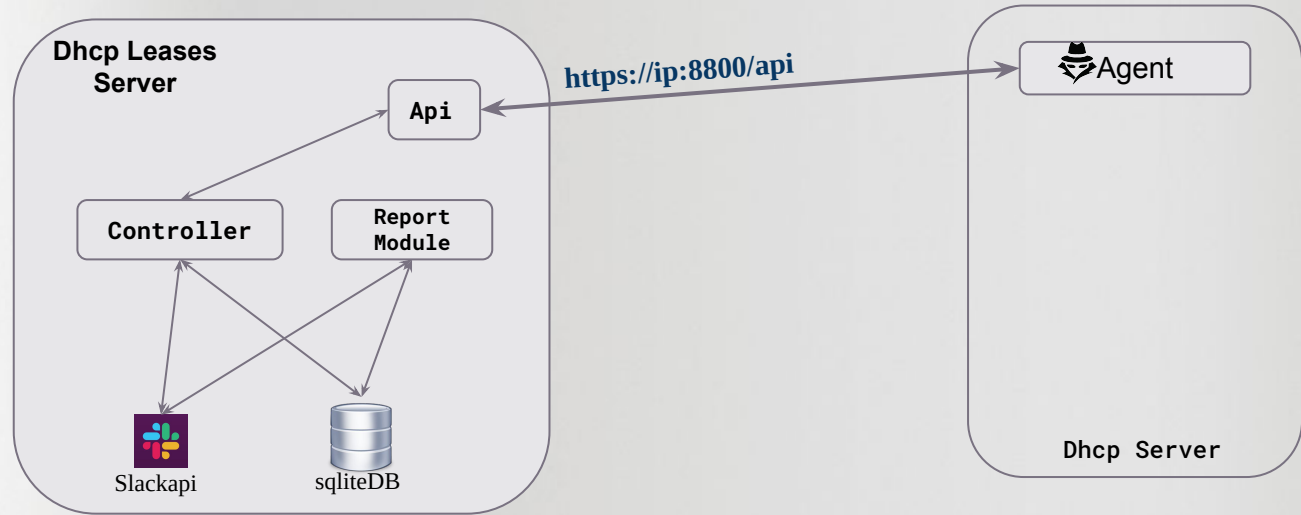


Introduction

- **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:

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 Cong.

- 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 Cong.

- 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**

THANKS!

Any questions?

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