

Algorithm for file updates in Python

Project description

Access to restricted content is controlled with an allow list of IP addresses.

The "allow_list.txt" file identifies these IP addresses. A separate remove list identifies IP addresses that should no longer have access to this content. I created an algorithm to automate updating the "allow_list.txt" file and remove these IP addresses that should no longer have access.

```
file_updation.py > ...
1  #IP address to be removed
2  remove_list = ['100.35.170.160' , '100.8.194.42' , '104.10.121.166' , '104.128.161.128']
3  # Open the file that contains the allow list
4  with open("allow_list.txt","r") as file:
5      # Read the file contents
6      ip_addresses = file.read()
7      # Convert the string into a list
8      ip_list = ip_addresses.split()
9      # Iterate through the remove list
10     for address in remove_list:
11         # Remove IP addresses that are on the remove list
12         if address in ip_list:
13             ip_list.remove(address)
14     # Update the file with the revised list of IP addresses
15     ip_addresses = "\n".join(ip_list)
16 with open("allow_list.txt","w") as file:
17     file.write(ip_addresses)
```

Summary

For this project i used sample ip addresses from
<https://www.maxmind.com/en/high-risk-ip-sample-list>