

Algorithm for file updates in Python

Project description

In this lab, we will learn about the security rules that can be used to either allow the legitimate users or to identify/block attackers based on the IP address information. We will utilize the concepts we learnt about working with algorithms, reading and writing files, iterating through list and file and filtering the data based on some predefined criteria. This learning will further provide a basis for creating complex algorithms to deal with various security assessments and allowing/blocking the traffic.

Open the file that contains the allow list

```
import_file "allow_list.txt"  
with open (import_file,"r") as file:
```

Read the file contents

```
print (file.read())
```

Convert the string into a list

```
ip_addresses = ip_addresses.split()
```

Iterate through the remove list

```
if element in remove_list:
```

Remove IP addresses that are on the remove list

```
ip_addresses.remove(element)
```

```
with open(import_file, "w") as file:
```

```
    file.write(ip_addresses)
```

Summary

In this lab, we learnt about working with writing algorithms by utilizing the concepts of list, loops, conditions, and file operations (read, writing, appending). Also we learned how the functions are utilized making the code easy to read and changes are easy to make.