

Pinger

Goal

Develop a Python script that accepts a list of IP addresses as command line arguments, pings each, and reports their response times.

Background

In the midst of preparing for a major product launch, your tech company faces intermittent network issues that threaten to delay development. Suspecting that the problem might be linked to network latency or loss of connectivity with key servers, the IT department has tasked you with developing a tool to quickly assess network health. Your mission is to create a script that can ping a list of critical servers and report back on their response times.

Prerequisites

This challenge assignment may require a basic understanding of how ping operations work and the behavior of network communication. Familiarity with how to send and interpret ping requests, as well as handling the response time and understanding possible timeouts or failures, will be helpful in successfully completing this task. Additionally, an understanding of functions and how they are used to structure code will be beneficial for implementing reusable and organized solutions.

You can read more about python function [here](#)

Instructions

1. **Script Creation:** Create a Python script named `pinger.py`. The script should take a list of IP addresses from command line input and separating it according to the space in-between the IPs.

2. **Using subprocess:** The Ping code can be implemented using the `subprocess.check_output` function to execute the `ping` command for each provided IP address.

- This script helps us run external commands in Python and get their output.
- Example:

```
pingoutput =  
subprocess.checkoutput(['ping', '-c', '1',  
ip_address])
```

3. **Output Format:** For each IP, the script should print:

```
IP Address: [IP] | Responded: [Yes/No] |  
Response Time: [Time in ms]
```

If an IP does not respond, do not show a response time.

4. **Test:** Test your script on the following IPs:

- 8.8.8.8
- 1.1.1.1
- 192.168.1.1
- 216.58.205.46
- 151.101.1.69
- 13.107.21.200

Example usage and output

Usage:

```
Enter IP addresses separated by spaces: 8.8.8.8  
1.1.1.1 70.70.70.70
```

Output Successful + Failed:

```
IP Address: 8.8.8.8 | Responded: Yes | Response  
Time: 14 ms  
IP Address: 1.1.1.1 | Responded: Yes | Response  
Time: 11 ms  
.  
.  
IP Address: 70.70.70.70 | Responded: No
```

To submit

Submit your code in a python script named "pinger.py"

