

# Ping Command

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AP21110010201

```
// AP21110010201
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#include <iostream>
#include <string>
#include <cstdlib>
#include <stdio>
#include <memory>

using namespace std;

string runPingCommand(const string& host) {
    string command;
    char buffer[128];
    string result = "";

#ifdef _WIN32
    // Windows
    command = "ping -n 4 " + host;
#else
    // Unix-like (Linux)
    command = "ping -c 4 " + host;
#endif

    unique_ptr<FILE, decltype(&pclose)>
pipe(popen(command.c_str(), "r"), pclose);
    if (!pipe) {
        return "Error executing ping command.";
    }
}
```

```

        while (!feof(pipe.get())) {
            if (fgets(buffer, sizeof(buffer), pipe.get()) !=
nullptr) {
                result += buffer;
            }
        }

        return result;
    }

int main() {
    string host;
    cout << "Enter the host to ping: ";
    cin >> host;

    string response = runPingCommand(host);
    cout << response;

    return 0;
}

```

## Output

```

Enter the host to ping: google.com

Pinging google.com [142.250.195.110] with 32 bytes of data:
Reply from 142.250.195.110: bytes=32 time=11ms TTL=57
Reply from 142.250.195.110: bytes=32 time=11ms TTL=57
Reply from 142.250.195.110: bytes=32 time=11ms TTL=57
Reply from 142.250.195.110: bytes=32 time=11ms TTL=57

Ping statistics for 142.250.195.110:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 11ms, Average = 11ms
PS E:\SRM\Computer Networks>

```