Ping-Traceroute

Release 1.0

Brandon Ranallo

Mar 01, 2025

CONTENTS:

Add your content using `reStructuredText` syntax. See the [reStructuredText](#) documentation for details.

CONTENTS:

PING-TRACEROUTE

1.1 my_ping module

my_ping.**checksum**(*source*)

> Basic checksum function from online reference
>
> > **Parameters**
> > > **source** (*struct*) – input packet
> >
> > **Returns**
> > > the checksum of the packet

my_ping.**createPacket**(*payloadSize*, *seq*)

> Creates and returns an ICMP ping packet
>
> > **Parameters**
> > > **payloadSize** (*int*) – size of the data being sent
> >
> > **Returns**
> > > a formatted icmp packet

my_ping.**main**()

my_ping.**ping**(*address*, *packetSize*, *timeout*, *seq*)

> Pings the provided address with a packet of the specified size, or timeout for the ping request
>
> > **Parameters**
> >
> > - **address** (*string*) – address to send ping to
> >
> > - **packetSize** (*int*) – size of the dummy packet to send
> >
> > - **timeout** (*int*) – timeout limit of the socket in seconds
> >
> > **Returns**
> > > delay of ping

my_ping.**resolveHostname**(*destination*)

> Resolve a hostname or IP address to an IPv4 address.
>
> > **Parameters**
> > > **destination** (*string*) – Target destination
> >
> > **Returns**
> > > IPv4 address of the destination

1.2 my_traceroute module

my_traceroute.**checksum**(*source*)

> Basic checksum function from online reference
>
> > **Parameters**
> > > **source** (*struct*) – input packet
> >
> > **Returns**
> > > the checksum of the packet

my_traceroute.**createPacket**(*payloadSize*, *seq*)

> Creates and returns an ICMP ping packet
>
> > **Parameters**
> > > **payloadSize** (*int*) – size of the data being sent
> >
> > **Returns**
> > > a formatted icmp packet

my_traceroute.**getHostname**(*ip*, *numeric*)

> Return the hostname or IP based on the -n flag.

my_traceroute.**main**()

my_traceroute.**resolveHostname**(*destination*)

> Resolve a hostname or IP address to an IPv4 address.
>
> > **Parameters**
> > > **destination** (*string*) – Target destination
> >
> > **Returns**
> > > IPv4 address of the destination

my_traceroute.**traceroute**(*destination*, *nqueries=3*, *numeric=False*, *summary=False*)

> OH GOD WHY DO YOU NOT WORK

TWO

INDICES AND TABLES

- :ref:'genindex'
- :ref:'modindex'
- :ref:'search'

PYTHON MODULE INDEX

m