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LANforge-ICEcap Users Guide

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Overview

The LANforge-ICEcap feature is designed to allow one to probe any network path and save the results to an XML file. This file can be replayed in LANforge-ICE allowing LANforge-ICE to replicate the latency, dropped packet percentage, and other behaviours of the probed network in a controlled manner.

1. Main ICEcap Window

After installing LANforge-ICEcap, you are ready to begin. First, start up LANforge-ICEcap. It should pop up two windows, one being the main window, and another that is the console output for low-level details and debugging output. Unless there is some problem with your test, you can safely ignore the console window.

The main window looks like this:
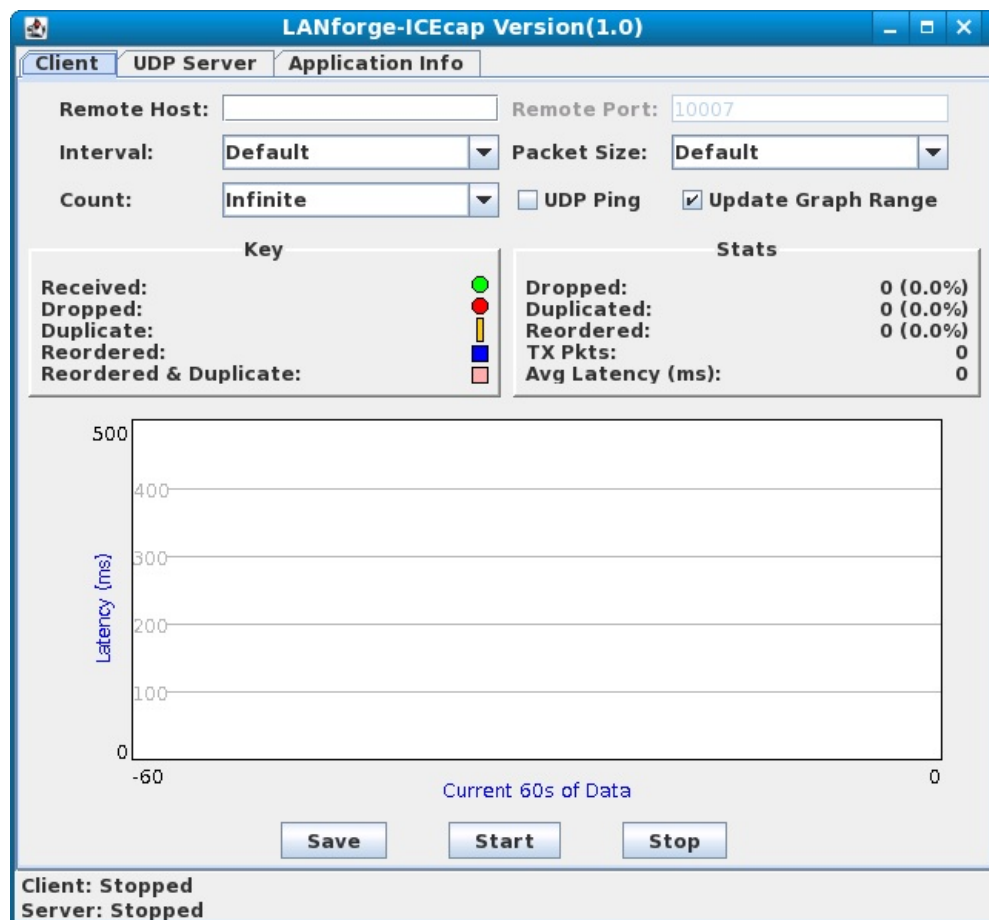
Destination

Specify the IP address or hostname for the remote network device to probe. The resulting file will capture the latency and packet loss between the machine running ICEcap and this destination machine.

Ntwk Interface

Specify the Network Interface to use on the local machine. Leave this blank unless you know

you need to use a specific interface instead of the default interface as selected by the
operating system.

Sample Interval

Specify (in seconds) how long each sample interval is. The samples sent during the sample
interval will be averaged together and saved as a single entry in the resulting XML file.

Duration

Specify (in seconds) how long the ICEcap probe session should last.

Sample Per Interval

Specify how many samples (probes) we should send per each interval.

Payload Size

Specify the size (in bytes) of the probe packet.

Result File Name

Specify the name of the file in which to store the results. The raw data will be saved in <file-
name>.dat and the XML file suitable for replay by LANforge will be called <file-name>.xml.

Other Args

If you want to pass any other arguments to the hping2 program, you can enter them in this field.
This is not normally required.

Email Server

If you want ICEcap to automatically mail the results to you then specify your SMTP mail server
here. ICEcap will attempt to connect directly to this server and speak SMTP in order to send the
email. It is likely that your mail server will need to be configured to allow this direct accesss.

My Email

Specify your email address. This will be used for the 'From' field in the email generated by
ICEcap.

To Email

Specify the email address to which the email should be sent.

Auto Mail

If this option is selected, the email will be automatically sent as soon as the probe session
completes. Un-select this if you do not want to send email.

Send Mail

If this button causes email to be sent immediately.

Run

Starts the probe session.

Stop

Stops a running probe probe session immediately.

Exit

Exits the ICEcap application immediately.

Progress

Displays the current progress for the probe session.