

## LANforge-ICEcap Installation

The LANforge-ICEcap application is used to probe networks and create an XML file that can be replayed by LANforge-ICE. The ICEcap feature includes a modified version of the hping2 tool and a TCL/TK GUI application. The GUI is not required but it will make using the hping2 tool easier, especially for users not accustomed to command line tools like hping2.

### 1. Choosing a Machine

The ICEcap toolset requires very little computing resources. The suggested *minimum* client platform specification is:

- **Pentium 300 Mhz**
- **128 MB RAM**
- **80MB Free Disk Space**
- **Monitor/Video Card capable of 1024 x 960 resolution or higher.**

### 2. Installing on Linux

The LANforge-ICEcap tools should work on any modern Linux distribution. ICEcap requires root privileges to run so it must be run by the root user.

1. **Log in as user root:**
  1. `su - root`
2. **Choose a directory** in which to install the LANforge-ICEcap. We suggest `/usr/local/bin`
3. **Install LANforge-ICEcap.**
  1. Download and un-zip the LANforge-ICECap\_Linux.tar.gz. To unzip, use a command similar to:  
`tar -xvzf LANforge-ICECap_Linux.tar.gz`
  2. Optional: Use the SUID option to make hping2 and icecap2 available to non-root users:  
`chmod a+s hping2`  
`chmod a+s icecap`
4. **Start the LANforge-ICEcap tool** with the command below. You must be the root user or have done the SUID step above.
  1. `./icecap`

The LANforge-ICEcap GUI should pop up shortly after this if everything worked correctly! You can also use the hping2 tool directly from the command line.

### 3. Installing on Windows

Run LANforge-ICEcap installer and follow the steps presented to you.

### 4. Trouble-shooting guide

**When I run 'icecap' I get an error: command not found**

Make sure your \$PATH includes the directory where you installed the hping2 and icecap tools. Also make sure that the icecap and hping2 tools are set to executable with the chmod tool.

**Email Candela Technologies at: [support@candelatech.com](mailto:support@candelatech.com) if you have any questions.**