Mesh All The Things!

tinc, VPN and mesh networking ______
tool for remote devices!

Your Problems

• You're addicted to devices



- You've got too many public IP addresses in your life
- You haven't figured out how to be in many places at once
- The internet isn't flat anymore
- There just aren't enough bits in an IPv4 address for your liking
- You forgot to cancel a 3D Print, you're two miles away and the California International Marathon is preventing you from crossing the city.

The Fix: tinc

- Cross-platform, lightweight mesh networking VPN application
- Control more network-level routing properties
- Small, active development team
- Easy to install and configure



Quick Install Demo!

DOSHELP .HLP	DOSKEY.COM	DRUSPACE.EXE	DRUSPACE . HLP	DRUSPACE. INF		
DRUSPACE.SYS	DRUSPACE.TXT	MSD.EXE	UFINTD.386	DRIVER.SYS		
EDIT.HLP	FASTHELP.EXE	FASTOPEN.EXE	FC.EXE	FIND.EXE		
GRAPHICS.COM	GRAPHICS.PRO	HELP.COM	HELP.HLP	HIMEM.SYS		
INTERLNK . EXE	INTERSUR.EXE	LABEL . EXE				
MEMMAKER.HLP	MEMMAKER. INF	MODE.COM				
HOVE . EXE	MSBACKUP.EXE	MSBCONFG.HLP	MSBCONFG.OUL			
MUBACKR.DLL	POWER.EXE	PRINT.EXE	QBASIC.HLP	RAMDRIVE.SYS		
SETUER . EXE	SHARE . EXE	SIZER.EXE				
SMARTMON .HLP	SORT.EXE			UNFORMAT.COM		
MSBACKUP.HLP	MSBACKUP.OVL	MSAU. EXE	MSAU.HLP			
MSAUIRUS.LST	MSBACKDB.OVL	MSBACKDR.OVL				
MWAU.EXE	MWAU.HLP	MWAUABSI.DLL	MWAUDLG.DLL			
HWAUDRUL . DLL	MWAUMGR.DLL	MWAUSCAN . DLL	MWAUSOS.DLL			
MWBACKF.DLL	MUBACKUP . EXE	MWBACKUP.HLP	MWGRAFIC.DLL	MUNDEL.EXE		
MHUNDEL.HLP	UNDELETE.EXE	USAFE.COM	WHTOOLS.GRP	COMMAND . COM		
BILLIARD.COM						
126 file(s) 5,846,313 bytes						
100,470,784 bytes free						
C:\DOS>date						
	is Wed 01-01-1992					
	(mm-dd-yy): 1-3					
a state of the second second	Contraction of the local data					

C:\DOS>billiard_

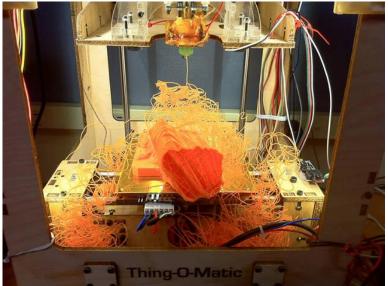
Your world - connected by tinc

- Connect all of your devices in a private, secure fashion
- Allows a personal cloud with redundancy of hosts even if part of the network goes down
- Minimal port forwarding needed
- Possibility of bringing back the old days of just a few hosts on the internet, but in this case, it is just your friends.



tinc in a makerspace

- Background on our network setup at MHQ
- Installation on one host gives access to entire network segment
- Allows for interaction with host's services
- Great for allowing temporary access
- Of course, be smart!



Usage Demo

BRNDLOG	TXT	9,053	03-04-12	10:28a
DFFLIN-1		<dir></dir>	03-04-12	10:24a
DEWABLOG	TXT	471	03-04-12	10:25a
SCHEDLOG	TXT	1,908	04-08-13	1:59p
DEFAULT	SFO	76,690	05-03-99	1:29p
DEFAULT	SFC	75,584	03-04-12	10:26a
BRNDLOG	BAK	237	03-04-12	10:24a
IE4ERR~1	TXT	1,115	06-09-12	11:34a
HOZVER	DAT	2,650	06-10-12	5:52p
JN INST	XE	100,475	06-10-12	5:52p
ISREG	AT	Θ	06-10-12	5:52p
TUNEUP	W98	110,592	04-23-99	10:22p
LOGOW	W98	129,080	04-23-99	10:22p
LOGOW	SYS	129,080	05-01-98	3:01p
SECCAST	ICO	4,710	05-01-98	3:01p
SMTIDY	EXE	65,536	05-01-98	3:01p
TUNEUP	EXE	102,912	05-01-98	3:01p
SDDINST	INI	175	04-01-13	4:16p
STGUNST	EXE	74,752	04-07-13	2:19p
SETUP1	EXE	290,816	04-07-13	2:19p
EXITTO ⁻¹	PIF	967	04-08-13	1:59p
2	14 file	(s) 61,3	57,342 by	tes
	22 dir(s) 9,	810.68 MB	free

tinc Development Goals

- New, easier installation!
- Built in network monitoring tools
- Allows plugins
- Certificate-based authorization ("web of trust")

Questions?

This program requires Microsoft Windows. C:\DOS>cd.. C:\>dir/w Volume in drive C is MS-DOS_6 Volume Serial Number is 1835-7518 Directory of C:\ [D0S] COMMAND . COM WINA20.386 CONFIG.SYS PLANE.COM 5 file(s) 72,343 bytes 100,579,328 bytes free C:\>edit C:\>test.bat Bad command or file name lad compand or file name Bad command or fi 14000 Bad command or file name Bad command or f Bad command or file name Bad command or file name 51

