



Windows in a Shared Environment



Personal vs Shared

A personal computer stores personal information, like contacts, passwords and browsing history.

Why is it bad for a shared computer to store this information?

What are common problems with computers at Internet Cafes?



Viruses, Spyware
and Malware



Corrupted
Programs



Files missing

What causes these problems?

- Open user accounts in which users can install/delete programs and change configurations.
- Out of date anti-virus
- Anti-virus not configured to scan regularly or when new media, like a thumb drive, is added



Tools of Protection

- Restricting User Access



- Anti-Virus Software



- Deleter/Cleaner Programs



KISS - local administrators may not be very technical

Restricting User Access

Preventing access to control panels

Not allowing users to install programs

Configurations can be done manually,
with group policies or using 3rd party
programs.



Anti-Virus

- Configured to do a complete system scan once a week
- Does scan of USB Drives when inserted
- Updated regularly with new anti-virus definitions
- Free Anti-Virus Software



and



Installing Anti-Virus

Pros	Cons
	Take CPU power, which slows the down the computer.
Even if have Cleaner/Deleter programs, viruses still active until computer reboots.	
	ClamWin and AVG cannot be configure them to scan new media, like a USB drive automatically.
	If client does not have Internet access, cannot update virus definitions.

How Deleter/Cleaner Programs Work



Original Computer Configuration



User Changes



Modified Computer Configuration



Deleter/Cleaner Program



Original Computer Configuration



A simple executable that writes to RAM instead of the hard drive

Deep Freeze has 2 states

On/Frozen

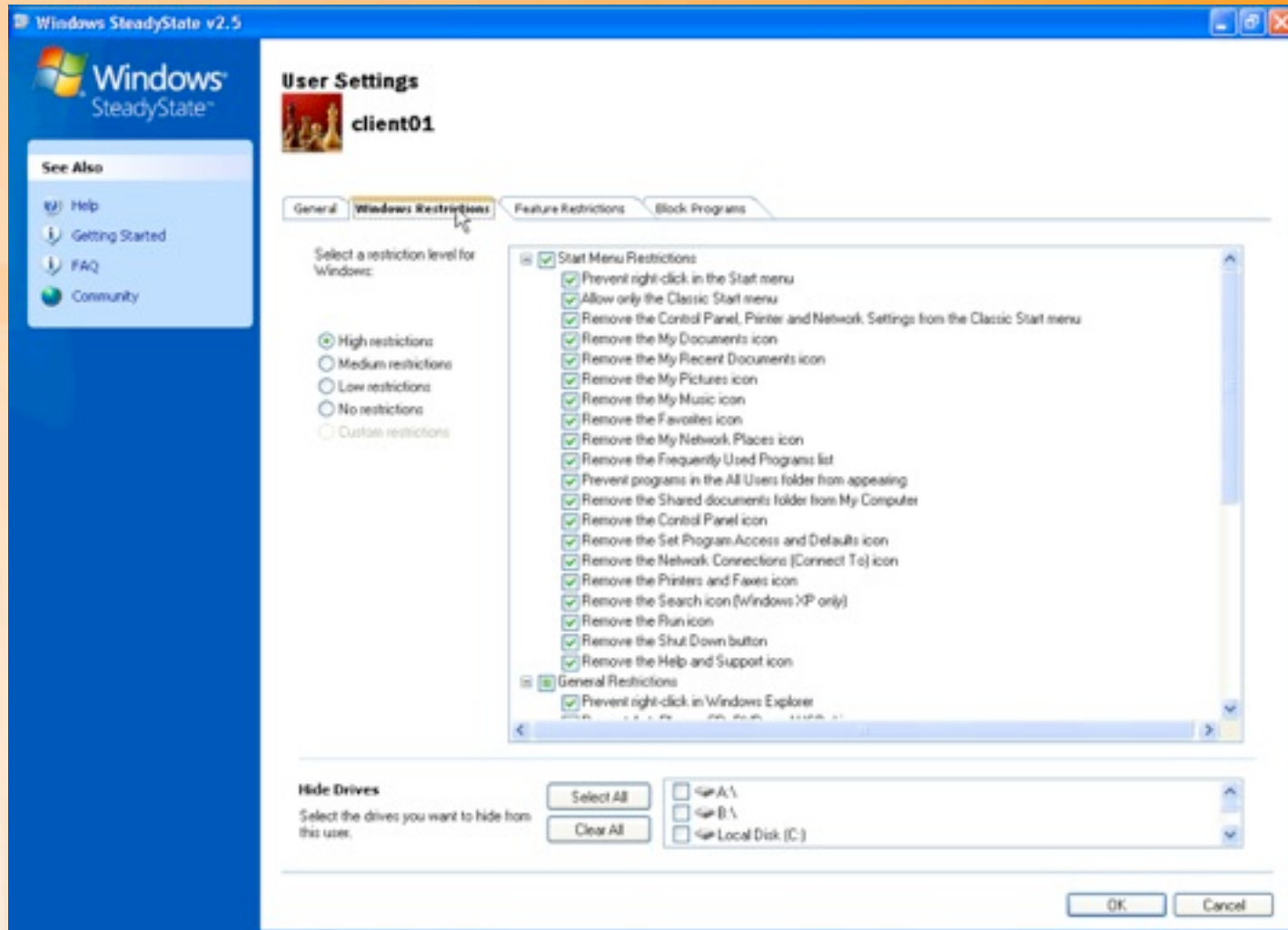


Off/Thawed

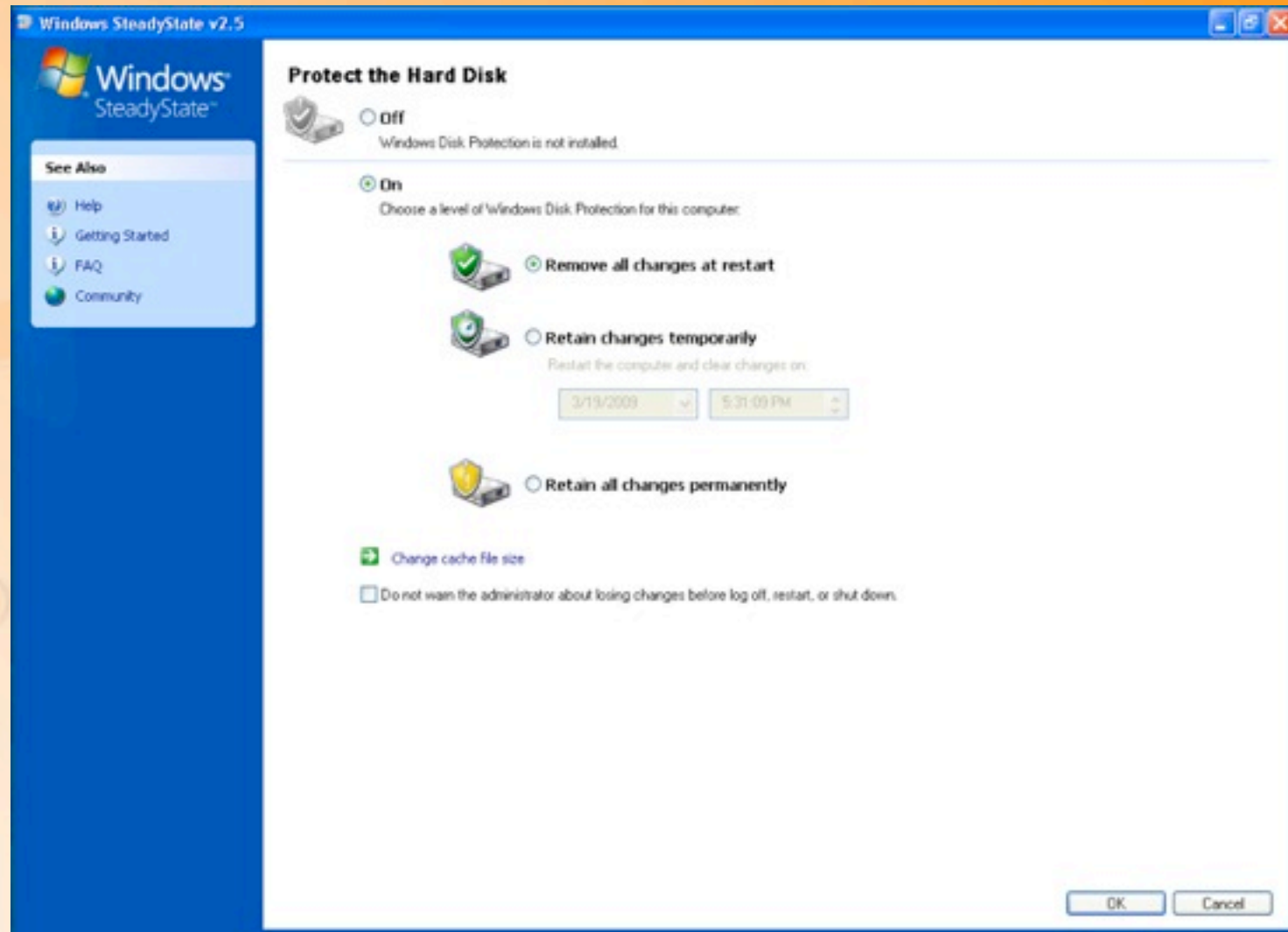


SteadyState

1. User Restrictions



2. Disk Protection





VS



Not Free	Free
No validation or keys needed	On-line OS validation required
Available for XP, Vista, Server 2003 and 2008	Only for XP and Vista
Must turn off to change configuration	Can change configuration while still active
Applies to all user accounts	Allows for restriction to specific user accounts
Allows for local file storage on a separate partition	Allows for local file storage on a separate partition

Configuring Deep Freeze

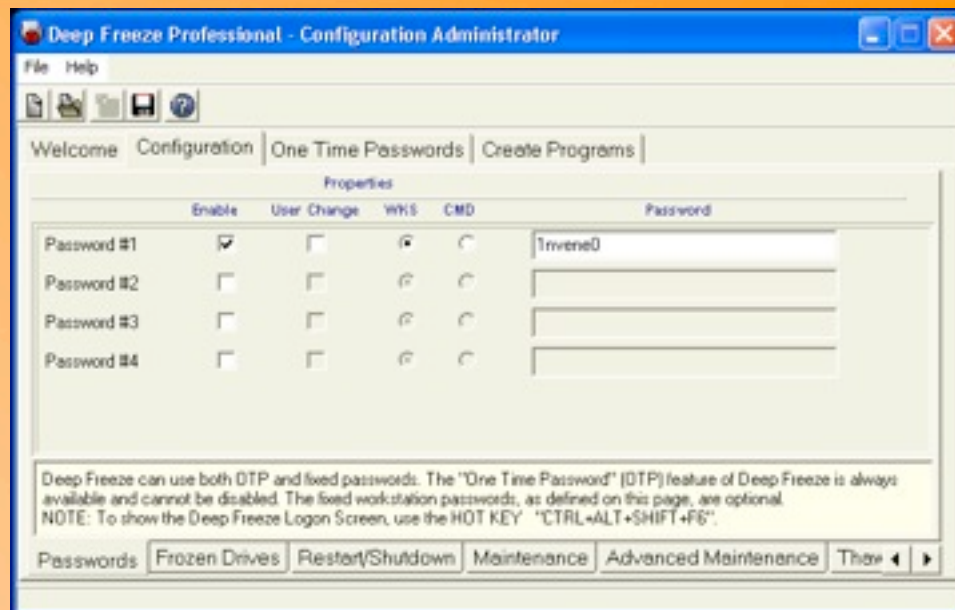
1. Double click the Deep Freeze icon on the desktop, which will install the Deep Freeze Configuration Administrator
2. Click **Next**
3. *Do you accept the terms of the license?* click **I accept**. Then click **Install**
4. Click **OK** after the install is complete.
5. Launch the Deep Freeze Administrator in **Start > All Programs > Faronics > Deep Freeze Professional**
6. Enter the customization code **1nvene00**. Write down this code, you will need it if you wish to uninstall Deep Freeze

The Deep Freeze Configuration Administrator



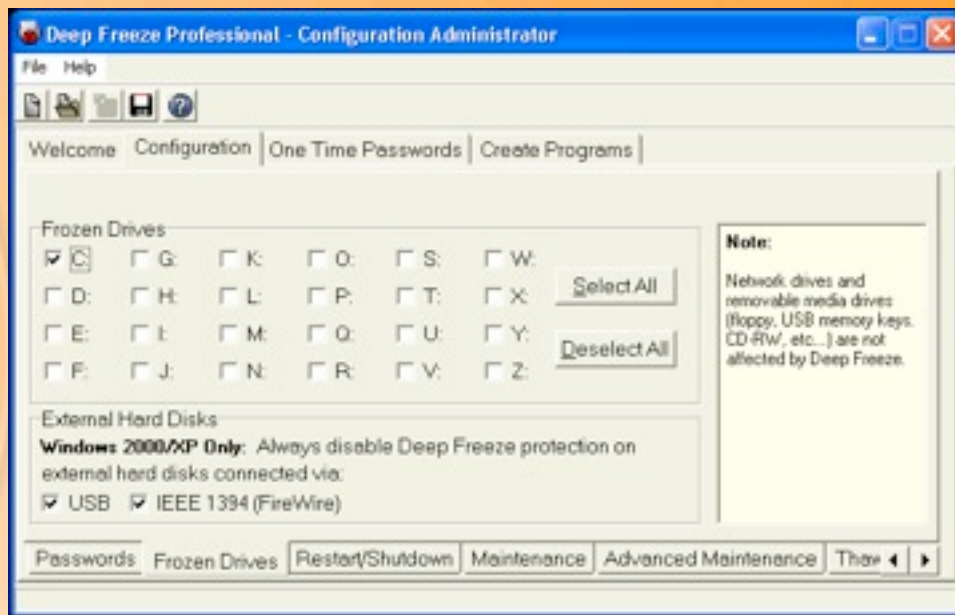
7. Click on the *Configuration* tab.
8. For Password #1, check **Enable**
9. Make the password **1nvene0**

(note that the password is not the same as the customization code)



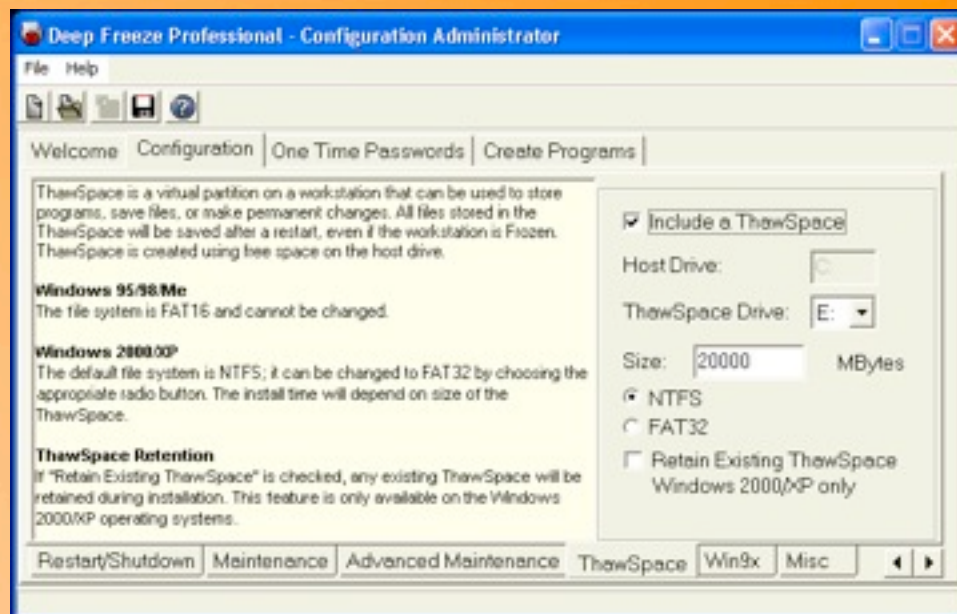
Creating thawed space for saving files locally:

- A. Click on the *Frozen Drives* tab.
- If you already have multiple partitions on the hard drive or mapped drives to a server, this tab will allow you choose which drives to thaw and which to freeze.



B. If you do not already have a separate partition for local file storage or a file server on the network, Deep Freeze can create thawed partition.

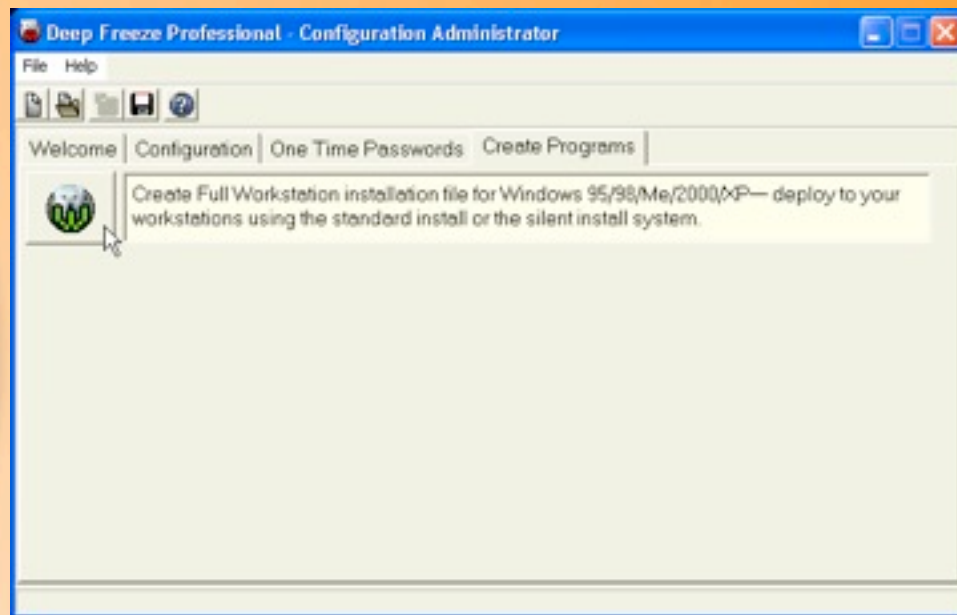
C. Click the *ThawSpace* tab. Then set the drive letter and size



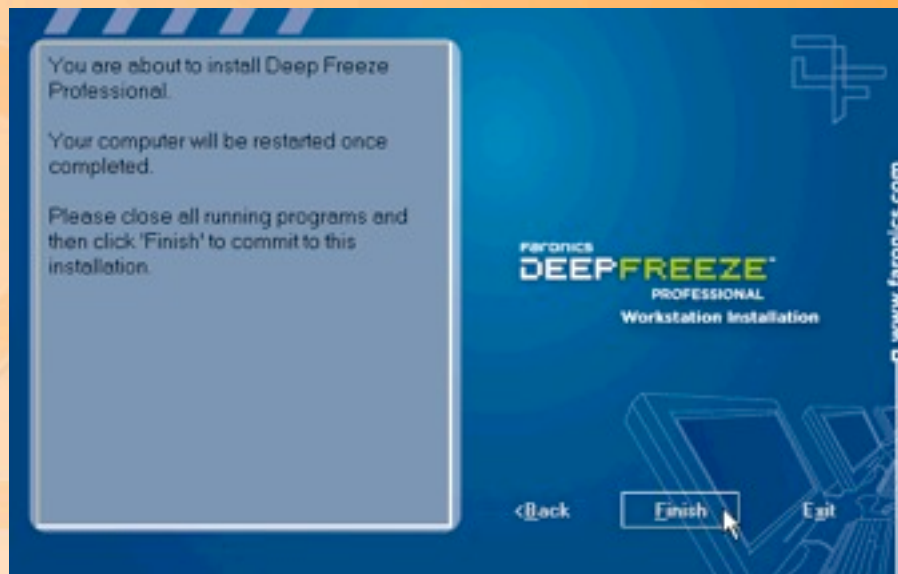
12. Click the *Create Programs* tab.

13. Click the bear icon with the green W. Deep Freeze will now create an executable based on the settings just made - password, thawspace, etc.

14. Click **Save**



12. Browse to the location of the newly created executable:
C:\ Program Files\Faronics\Deep Freeze Professional\DF5 Install Programs
13. Double click ***DF5Wks***
14. Click ***Install***
15. Click ***I accept***. Then click ***Next***
16. Click ***Finish***. The computer will restart once installation is complete.

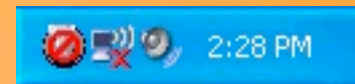
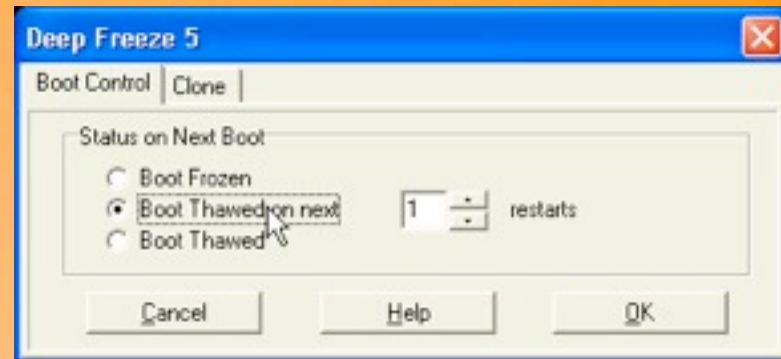


17. When the computer reboots, a new icon will appear in the system tray - a bear. The bear means that Deep Freeze is installed and active. The computer is frozen.



Thawing Deep Freeze

1. Hold the shift key and double click the bear icon
2. Enter the password for Deep Freeze:
1nveneo
3. Click ***Boot Thawed on next 1 restarts***



1. When the computer reboots, it will be thawed. The bear icon in the system tray will have red circle and line through it.
1. In the thawed state, the computer's configuration can be changed. The computer is not protected from viruses or spyware.
2. When the computer is rebooted a second time (ie when it is in the thawed state), it will reboot frozen.