



# Improving Business IT Resilience

## Computer Desktop Fallback

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### Problem Needing To Be Solved

Almost all business IT systems based on MS-Windows tend to be entirely Windows-based. So when malware invades such businesses all servers and all desktops rapidly become non-functional.

Our MDFS (Malware Defeating File Sharer) solves the server resilience problem.

Which leaves the desktop resilience problem. Reinstalling and configuring Windows desktops takes a lot of time and effort.

### Optimum Solution

The optimum solution is to have non-Windows desktops available, as they are immune to Windows malware.. A sufficient number of them to ensure that all important actions can happen. Many alternative (non-Windows) desktops can provide the same or equivalent functionality as Windows desktops.

### Separate Implementation

This involves installing on spare PCs. Linux hardware requirements are lighter than Windows ones, so any PCs made surplus by Windows-upgrading can almost certainly be used for this.

### Optimum Implementation

This involves installing a Hypervisor on office desktop machines and then installing Windows Desktop in a virtual machine, and the alternative desktop in another VM.

During the machine's boot process the user chooses which VM to run. When the Windows Desktop becomes non-functional, they simply shut down that VM and start the other one and resume work.

Note: Do not create dual-boot machines instead, because doing that makes the files of the alternative system vulnerable to Windows malware.

### Hypervisor

We use and recommend VirtualBox 7, run by AlmaLinux 9 or Rocky Linux 9.  
Visit: <https://www.virtualbox.org/wiki/Downloads>

Avoid using the MS Hypervisor because obviously it's vulnerable to attack by Windows malware.

### Alternative Desktops

We recommend the Linux-based MATE (mah-tay) desktop, which is very easy to use even for people unfamiliar with non-Windows desktops. This document has been produced on Fedora Linux MATE.

Fedora Linux contains bleeding-edge software and new versions are released at 6 month intervals.  
Visit: <https://spins.fedoraproject.org/mate-compiz/download/index.html>

AlmaLinux and Rocky Linux are long-term-support versions. Version 9 is the latest and it's supported until 2032. Several desktop variants are available, with MATE being one of them.  
Visit: [https://docs.rockylinux.org/guides/desktop/mate\\_installation/](https://docs.rockylinux.org/guides/desktop/mate_installation/)

### Our Motivation For Producing This

We want businesses to achieve better outcomes, regardless of whether we're directly involved in making them happen. Such outcomes can produce effects that benefit many, including ourselves.