



100%IT



Trusted Data Platform for Private and Public Cloud



Can you truly trust the Cloud ?

The demand for faster data access and greater security controls are ever increasing as Global business continues to evolve.

Many Organisations are moving away from traditional hardware and software models to preferred cloud-based applications as they deliver many benefits for businesses of all sizes; including fast set-up, easy accessibility, scalability, built-in disaster recovery and cost efficiency.

These applications known as Software as a Service (SaaS), run on remote computers hosted in the cloud and are managed by a Service Provider of your choice.

However, despite the many benefits, organisations still face on-going challenges regarding assurances needed to

support the delivery of a totally secure SaaS platform.

These challenges can sometimes limit the applications and percentage of company data stored in the cloud, which underutilises the clear advantages Cloud Computing offers.

Trust between the customer and the service provider is a crucial element of the purchasing and procurement decision process. This is why 100 Percent IT, with the assistance of the University of Oxford, developed new technology which can now solve the ongoing challenges connected with Cloud Computing delivering a truly Trusted Cloud Service offering.

Challenges when storing data in the cloud and the 100 Percent IT assurance with our trusted cloud

1. Can you tell if your Service Provider has accessed your company data ?

100 Percent IT - Trusted Data Processing Assurance: Our **Trusted Data Platform 'TDP'** provides a system which is as secure as a company having their own Servers in their own data centres. Our approach enables users to upload encrypted data and disk images to the cloud along with a separate decryption key which is protected in a hardware device called a **'Trusted Platform Module' TMP** which is part of the physical server hardware. The Service Provider can now only view the encrypted disk image and not your organisation's data.

2. Can your Service Providers Cloud infrastructure defend against attacks or malicious users ?

100 Percent IT - Cloud Infrastructure Integrity Assurance: We are able to allow businesses and third parties such as CESG or other Cyber Security firms, to remotely verify the underlying software running is exactly the same software that has been independently audited. This remote attestation system also allows verification the underlying cloud software is patched, up to date and has no, known security flaws.

3. How does your Organisation ensure, third parties only access or process the data they are authorised to?

100 Percent IT - Trusted Data Exchanging Assurance: Our team, have ensured the **Trusted Data Platform 'TDP'** is backed up by a verification audit trail; this confirms who has accessed the data, from where and when. This facility for external third party verification creates complete confidence that Service Providers and any unauthorised third parties physically cannot access your company data.

4. Can you rapidly detect if your servers have been hacked or interfered with?

100 Percent IT - Intrusion Detection Assurance: We have created an additional layer of security, an enhanced **Intrusion Detection System 'IDS'**. Rather than analysing network traffic which can miss zero-day attacks or running as a program inside the virtual machine which can be hacked. Our trusted data platform provides a monitoring system which runs in the virtual machine hypervisor and can scan the virtual machine from the outside. You can create your own white list of software which runs on the virtual machine and is checked every few seconds. If malicious code does manage to bypass the virtual machine operating system security, the **Trusted Data Platform** can immediately freeze the virtual machine, suspend VM networking, send an email alert or a combination of the above so you are always in control.

Trusting the cloud, having total control and security of your Organisations data is now possible. Our innovative and scalable solution allows you to choose the Cloud Service which truly suits your business needs most, safe in the knowledge all your data is protected in line with our four key assurances.

For more information, request a consultation demonstration or to book a meeting, contact our Trusted Cloud Team.

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