



# IT Infrastructure: On-premise v Cloud Hosting

## Comparison Guide

On-Premise Infrastructure	Kinetek Cloud Hosted Infrastructure
<b>Infrastructure Fundamentals</b>	
<b>Power</b>	
Typically on-premise will not have generators or long duration battery cover. Basic Uninterruptible Power Supply is generally the only protection (uptime approx. 10-60 minutes).	UPS power for dual feed connectivity. A and B feeds protect from single source failure. Both feeds are backed by a rolling generator with priority power to guarantee energy supplies in the event of a national outage.
<b>Physical Security</b>	
Typically on-premise systems will not have any additional physical security beyond the building security where the system is housed.	24/7 Onsite Security, Access Controlled Entry, CCTV, Secure Fencing and Gate Entry – Highly Secure.
<b>Maintenance (Cooling)</b>	
Typically on-premise systems will have a dedicated room with standard air conditioning. Servers can have their running lifetime significantly reduced by poor cooling. Running air conditioning 24/7 can be expensive.	Datacentre cooling provides an optimum server environment, often with both hot and cold aisles to maximise efficiency.
<b>Maintenance (Servers)</b>	
Typically patching/upgrading on-premise hardware requires system downtime and weekend or overnight working for IT personnel.	Datacentres run workloads (Virtual servers etc.) on clusters where nodes in the cluster are regularly upgraded and/or replaced with zero disruption to the services running on them. Cost and interference are not visible to customers.
<b>Internet</b>	
Typically on-premise internet is provided by only one ISP. Bandwidth is generally expensive and non-resilient. Security needs to be added at additional cost via a robust firewall. For more sophisticated protection against malicious cyber-attacks the business will need to pay for IT services, either externally or employ an internal IT manager.	Datacentre connectivity is multi carrier and highly available in the event of single carrier failure. Virtual Firewalls are used for additional resilience. Optionally, protection against ransomware, spyware, malware, phishing attacks etc. All fully monitored by the hosting provider with state-of-the-art automated tools.
<b>Future Proofing</b>	
The customer needs to ensure the hardware and infrastructure are fit for purpose and up to date.	Kinetek ensures the hardware and infrastructure is fit for purpose and up to date. In most cases the infrastructure will significantly exceed the specifications of on-premise hardware.
Updates and improvements to ERP software can sometimes require more powerful hardware to ensure good performance. The customer may find that to benefit from upgrades to their ERP they also need to invest in their on-premise infrastructure.	Kinetek has a contractual duty to ensure the hosted infrastructure meets all the requirements of our Partners' changing ERP solutions, thereby guaranteeing an excellent user experience.
With on-premise hardware there is limited flexibility to the way the customer can rapidly scale up or scale down their infrastructure to meet changing business fortunes.	Kinetek's hosted solutions allow for rapid expansion or contraction at a known cost for each additional user.

On-Premise Infrastructure	Kinetek Cloud Hosted Infrastructure
<b>Working from Home</b>	
Users of on-premise systems typically access software applications via the on-premise network. External access via remote devices such as tablets, phones etc. can be facilitated but performance may be restricted by office connectivity limitations.	Customers of Kinetek hosted solutions access their business applications on any device, from anywhere in the world via the super-fast, highly resilient datacentre internet connection.
<b>Data Backup and Disaster Recovery</b>	
Companies typically manage their own data backup regime and are responsible for off-site nightly backups.	As standard Kinetek provides a data backup service that ensures hourly backups to separate servers of all the data on the hosted system. All data backups are automatically verified and checked for errors. Any issues are flagged and notified for attention.
Full replication of the entire on-premise hardware and infrastructure environment, including operating system software and data, is generally an expensive option and requires significant in-house IT skills.	Kinetek provides an optional service where the customers' hosted environment, including operating software and data is replicated to 'live' standby servers at a secondary data centre. In the highly unlikely event of the primary system failure the back-up system can be fully operational within 1 hour.
<b>System Monitoring and Anti-Virus</b>	
To monitor the health and performance of on-premise infrastructure a business needs to purchase the appropriate software, pay the annual licence fee and pay an IT expert to install and use it.	As standard, Kinetek provide full system monitoring of all hosted infrastructure with automatic alerts if issues are detected. Monitoring minimises the likelihood of downtime and performance issues.
It is the customer's responsibility to purchase, install and maintain the appropriate Anti-virus software. Importantly this requires the customer to ensure that the very latest version of software has been deployed across all servers.	As standard, Kinetek provides state-of-the-art Anti-virus protection for all servers in the hosted environment. The system is continually updated to prevent malign attacks, with all necessary back-up systems in place should the defence be breached.
<b>Costs</b>	
On-premise infrastructure typically requires a significant up-front capital investment and from an accounting perspective is regarded as 'capital' expenditure.	Hosted infrastructure is typically paid for quarterly and is based on how many users are accessing the system. From an accounting perspective it is regarded as 'operating' expenditure.
The customer needs to manage and pay annual maintenance and support for their on-premise infrastructure. Maintenance charges can increase significantly as the equipment ages.	Kinetek covers all costs associated with the maintenance of the hosted infrastructure.
On premise hardware and infrastructure needs to be managed by someone with IT skills with all the associated costs in salaries etc.	There are no additional costs for managing hosted infrastructure.



**Contact us now to find out more about IT Infrastructure:  
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