Securing Data

How to safeguard sensitive data from malware and third-party hacks
Yardi supports our clients with a continually updated and monitored cloud computing environment. Our award-winning service keeps sensitive information secure with multiple levels of protection.
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Cloud technology supports nearly every modern industry. It’s the safest way to store data. It’s the most convenient way to do business. It’s the most cost-effective way to mitigate risk.

Has your organization made the transition to the cloud? Hosting your data and software in-house is risky. Learn why now is the perfect time to make the move to the cloud.
What is the cloud?

The phrase cloud computing may sound ambiguous, as if data is being stored somewhere up in the sky. In reality, the cloud is just a way to help software users visualize the convenience of having their data and software available wherever they are. It’s a visual representation of secure servers in a remote physical location with a secure connection to users via the internet.

Examples of cloud computing are quite common, though you may not even know you are working in the cloud on most occasions. Logging into a web browser to check your email? You’re cloud computing. Checking your stock portfolio from your smartphone? Also cloud computing. Whenever you receive any piece of news or data over the internet, you are accessing that information from the cloud.

What the cloud isn’t

Local servers and connectivity are the alternative to cloud-based data. Examples are hardwired or wireless local area networks that keep data in-house and only available when connected to the server. Data can be synced with mobile devices periodically, but is not readily available in real time.
Cloud-based software solutions and data environments are often more secure than privately hosted scenarios. Companies that host client information in the cloud are professionally dedicated to keeping up with current technology, security threats and other constantly evolving technology trends. The level of expertise held by a top cloud computing company likely outranks what could be expected of an in-house IT staff.
Trends in data security

Data security is of highest importance for every industry, and for good reason.

According to the Ponemon Institute and IBM, data breaches that originate from a malicious cyber attack were not only the most frequent but also the most expensive. The share caused by cyber criminals accounted for 51% of studied breaches in 2019, and the average total cost a data breach in Canada has been trending higher as malicious attacks become more common.¹

These malicious attacks take the form of hacking, skimming and phishing. Each are slightly different methods with a common purpose: to obtain login credentials and procure personally identifiable information (PII). PII presents an alluring target to hackers. Social Insurance Numbers and birth dates can be used to create an entire profile of an individual and have value (both monetary and otherwise) for many illicit activities.

Your organization is not immune to the threat and could be an enticing target for hackers. Names, credit records and bank account numbers are just some of the sensitive data that could be potentially targeted.

¹ https://www.ibm.com/security/data-breach
Recent, high-profile events have involved ransomware, which enables an attacker to invade a network through spam email, a camouflaged link or a “Trojan Horse” attachment, encrypting data and locking out users. Paying the ransom releases the data and the device. Payment demands range from small sums to millions of dollars. While in the past ransomware primarily struck individuals, the latest victims involve data-rich organizations like corporate businesses and local municipalities.

In 2018, two towns were hit by similar ransomware attacks just months apart. Both Wasaga Beach, ON, and Midland, ON, spent weeks without access to their computer systems and data as they attempted to negotiate with scammers.² It’s a trend that unfortunately is growing. According to a report by security firm SonicWall, ransomware attacks in Canada are up 360% over 2018. Attackers are increasingly going after organizations with weaker defenses and high-value data.³

For perpetrators, ransomware is purely a moneymaking enterprise. For public entities, ransomware attacks could have catastrophic ramifications. Ransomware attackers can make expensive demands and expect threatened organizations to pay up, since many have sensitive data on hand and rely on data to execute daily functions.

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The benefits of the cloud

Security, cost savings and convenience are the three main benefits offered by cloud-based solutions.

Using multiple software systems from multiple vendors can heighten risk exposure, especially when sensitive data is shared across different platforms with disparate security levels. When hackers attempt to penetrate an organization, they look for weak applications and then move laterally to other databases within the hacked organization. Therefore, hackers can use a system improperly hardened (even if it does not contain sensitive data) as a conduit to gain access to a valuable target.

For end users, the difference between cloud-based and locally hosted software is negligible and likely unnoticeable. Users log in with a unique name and password and use their software interface to work with their organizational data.
Outsourcing services for hosting software is a proven strategy to get more value from an IT budget. It is cost-prohibitive for most organizations to pay in-house employees to perform services comparable to a large cloud services provider.

The best cloud computing providers offer seamless security services and back up their clients’ data in multiple interregional locations. The security operations centre of a cloud services provider includes a team of trained professionals which constantly monitors the environment to block attacks and investigate anomalies.

Working in the cloud offers a unique opportunity to work with live data from anywhere users have access to an internet connection. For example, running reports with live data presents stakeholders with a real-time, single version of the truth. Executives can review reports, approve expenses and authorize payments when and where it’s most convenient for them, instead of being tied to a desk.
The Yardi solution

Within the Yardi cloud, client data resides behind multiple layers of firewalls and intrusion prevention systems. Strong password policies and SSO integration ensure that users are authenticated in real time, and role-based application security verifies users can only access data they are authorized to see. In addition, multiple encryption layers of both data at rest and data in motion guarantee that if a breach occurs, the data remains protected.

Yardi constantly backs up and replicates all data to an off-site centre to ensure business continuity. Yardi partners with world-class data centre providers and exclusively hosts in Tier 3 co-location spaces to establish full redundancy of all components, including power, internet connectivity and more.

Yardi Security Layers

1. Data sent over the internet is always encrypted.
2. Defense-in-depth security with multiple layers of protection from the network exterior to the application and database servers.
3. Real-time anti-virus and anti-malware software safeguards all Yardi servers.
4. Active Directory security ensures users only have access to their organization’s specific applications.
5. Multiple layers of database encryption ensure security of data at rest. The system authenticates any attempt to log in to the database server.
6. User-defined access allows system administrators to authorize users from within the program to access program features and reports and can define “idle” periods for session timeouts.
7. Strong password policies including password length, complexity rules and change policy can be defined by system administrators.
Yardi has been named to the Forbes Cloud 100 list of the world's best private companies in cloud computing for the past four years running. Awardees were selected by a panel of judges representing leading public cloud companies, using qualitative and quantitative data from each nominee, along with third-party data sources. The evaluation process involved four factors: market leadership (35%), estimated valuation (30%), operating metrics (20%) and people and culture (15%).

https://www.forbes.com/cloud100
Conclusion

One of the biggest threats to data security is complacency. There is no time to celebrate once an attack is averted or a breach is sealed. Attackers have likely already moved on to more advanced techniques.
A great way to gain peace of mind without making a large investment in time and staff is by working with a cloud services provider with a track record of success. Staying on top of the latest developments in database security is one of the many vital services Yardi provides to its cloud customers.

With more than a decade of cloud computing experience, Yardi’s award-winning Cloud Services division manages over 5,000 clients in 12 data centres around the world. Our dedicated cloud support team focuses on delivering clients the most secure environment possible and are subject to regular rigorous security audits.

Contact us at (888) 569-2734 to discuss the Yardi cloud solution that’s right for you.
Leading Business-Wide
Real Estate Management Software and Services

At Yardi our mission is to provide our clients with superior products and outstanding customer service, while we take care of our employees and the communities where we work and live. With that commitment, Yardi leads the industry in providing full business software solutions for real estate investment management, property management, financial accounting, asset management and ancillary services.

Organizations like yours have been using our proven and mature software with confidence for decades.