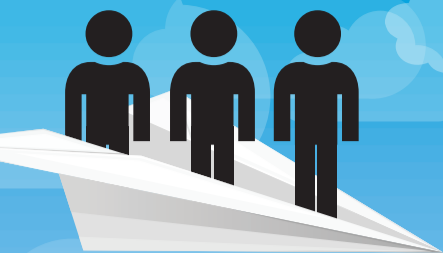


# To Be Real Cloud, The Solution Must Be Multi-Tenant. *So what is multi-tenancy?*



## MULTI-TENANCY

An Instance of Software & Supporting Infrastructure Supports Multiple Users



## SINGLE TENANCY

An Instance of Software & Supporting Infrastructure is Created for Each Individual User



Multi-tenant software architecture allows tenants to share use of an application. A tenant is just another word for a client, or a group of users who share the same access to the software instance. Cloud computing relies on multi-tenancy.

## Multi-Tenant Applications Benefits



### AFFORDABLE

Costs are kept low when users share servers. Software development and maintenance costs are shared by all customers. Aspect cloud solutions are subscription based, per user, and discounted for multiple users. They're priced so that small companies can use the same powerful, professional ETRM/CTRM tools as the largest in the world. Cloud levels the playing field.



### SECURE

Cloud technology is safe to handle storing critical information and includes deterrent, preventive, detective and corrective security controls. System backups are done regularly so users can be sure to always have access to their data.



### SEAMLESS UPGRADES

Firms never have to pay for a new upgrade of their software, like they do with traditional software. Upgrades occur on weekends or evenings without business disruption. Software never falls out of date or becomes "end of life".



## Multi-Tenant Applications History

Multi-tenant technology has come a long way. But where did it all begin?

### Time-Sharing

In the 1960s, time-sharing computing was developed which allowed multiple people who were using different programs to interact with a single computer simultaneously. The two most common time-sharing techniques are multiprocessing and multitasking. Multiprocessing uses several processors to process different areas of one program at the same time. Multitasking is the method of running multiple programs on one computer simultaneously in order to keep the computer's resources constantly working.



### Hosted Applications

In the 1990s, service providers began hosting applications for their clients. Each individual server can host dozens of databases, which lowers costs for customers since it is a shared expense that is divided. Hosted applications allow users to access software completely through the cloud. This allows customers to use applications using their Internet connection. Aspect also allows clients to host their AspectCTRM solution. They're still using the latest multi-tenant software, just hosting it on their servers in the cloud.



### Web Applications

Web apps are programs that are stored on remote servers and are accessed through a web browser. Most modern software services are accessible through a website that will ask you to provide a username and password to enter. In recent years, mobile applications have seen an increase in popularity with more and more providers creating programs that can be accessed on a mobile phone or tablet.



## Cloud Computing

The cloud market was valued at \$148 billion in 2016.

41% of businesses are planning to increase their investment in the Cloud.

The top cloud concern Software as a Service companies have is finding employees that fully understand the technology.

The annual global spend on public cloud services is expected to grow at a rate of 19.4% and could reach \$141 billion by 2019.



A Leader in Cloud-Based ETRM/CTRM Solutions Since 2000

Aspect was one of the first companies to deliver web-based software solutions to energy and commodities trading firms. Aspect founders recognized the potential in offering market data and trade & risk management solutions through the web before the technology had become commonly used by trading firms. Aspect solutions were created specifically for the web, and the company continues to be the leading global provider of cloud CTRM solutions.

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