ACTIAN™

Actian Zen Cloud Server
An embeddable database for Cloud-based client-server applications

Key Benefits

Includes all Zen Enterprise and PSQL features and functionality

Embed or bundle with Cloud-based intelligent applications

Support multiple data tables and files each up to 64TB

Capacity-based licensing based on database size; no per-user fees

Allows front-end horizontal scaling when needed for performance

Cloud-Friendly Licensing – Supports SaaS and multi-tenant environments

Backward-compatible with PSQL and Zen Enterprise Server

Supported Platforms

Windows, Linux, and macOS

VMWare vSphere, Nutanix AHV, Microsoft Hyper-V and Citrix Hypervisors

Host in Private Cloud, Public Cloud, or Hybrid Cloud

Licensing

Capacity-based licensing by size of the data being accessed

Base 20GB, 100GB, 200GB or true Unlimited Capacity

Permanent or temporary (60-day) capacity increases are available

The Actian Zen database family provides developers of intelligent software the ability to embed or bundle a data management platform into their applications and deploy them in on-premise or in branch offices and remote field locations. Actian Zen Cloud Server database extends the Zen embedded and on-premise cross-platform database architecture and OEM support lifecycle to Cloud environments. With Zen Cloud Server, software application developers get a Cloud-ready version of Zen Enterprise Server database with a licensing model that supports multi-tenant web services and Software as a Service (SaaS) environments, supporting applications running on public, private or hybrid cloud environments.

Zen Cloud Server database functionality overview

Support for Thin-Client Front-End Interfaces – Many applications are being retooled to support a thin-client, front-end display via web protocols (such as http), allowing users to easily access their application via a multiplexor, allowing for access from simple devices such as tablets or phones. Zen Cloud Server eliminates the need to track users through multiplexing environments, simplifying development and deployment efforts.

Multi-Tenant Support – While many Independent Software Vendors (ISVs) sell their application to the end-user for distributed deployment within the end user environment, this can (and often does) lead to increased support costs for the ISV. With Zen Cloud Server, an ISV can deploy a single, large database engine for their application in a multi-tenant configuration. By consolidating the database resources and supporting only a single server, the ISV reaps the benefits of scalability and saves administrative effort, leading to lower costs.

SaaS Support – Zen Cloud Server license allows for true Software as a Service (SaaS) and Database as a Service (DBaaS) deployments. Cloud vendors and Internet Service Providers (ISPs) can purchase and deploy Zen Cloud Server and then allow their customers to access that database to support remote applications, data collection systems (with Time-Series data, JSON, and BLOB support), Industrial IoT (IIoT) systems, and more.

Simplified License Management – Zen Cloud Server authorization and validation is designed for the Cloud and virtual world by linking the license key to the computer name only. If the virtual hardware changes in any way, such as adding memory, adding CPU cores, or even changing platforms altogether, the Zen license is not impacted in any way. Whether you want to run on physical servers, virtual servers, or cloud servers, the capacity-based licensing model transfers easily and is expandable as far as you want to go.

No Application Changes Needed – Applications that run on Zen Enterprise or prior PSQL versions will also work with Zen Cloud Server, as all members of the Actian Zen database family have the same architecture, data file formats and AES-256-bit encryption, and access method APIs.

Zen Cloud Server database capacity-based pricing overview

Zen Enterprise Server tracks the number of concurrent users based on the unique network addresses which are establishing connections to the database. In a multiplexing environment, where one gateway or web service may be supporting database calls for hundreds or thousands of users, keeping track of the real number of users on the other side of these gateways can be a huge challenge. Zen Cloud Server alleviates this extra effort by avoiding the need to accurately track concurrent users in the first place. Instead, Zen Cloud Server is licensed by the size of the data actually being accessed and allows for an unlimited number of database connections. This capacity-based licensing allows companies to deploy and support users coming through an unlimited number of devices. If you web service is overloaded, simply spin up another one, two, or even 10 more web servers in the Cloud and scale up your application's throughput quickly and easily.

Does your data keep growing and growing? Just as adding users impacts the licensing of Zen Enterprise Server, adding data can impact the licensing of Zen Cloud Server. When you exceed the data size of your current license, you can easily add capacity by applying a Data Size Increase license, either in 10 GB increments or by increasing to the next Zen Cloud Server size – all in less than 45 seconds!

Zen Cloud Server Size	Data in Use Limit
Small	20 GB
Medium	100 GB
Large	200 GB
SuperSize	Unlimited

Some businesses experience cyclical peak demand, such as retail businesses in the holiday season or accounting firms at tax time. If you need to add capacity to handle this peak demand but don't need it all year long, you can buy a special 60-day temporary database capacity increase licenses, in the same sizes as above.

Zen Cloud Server database key benefits

Increased Value of VM Investment – Zen Cloud Server enables customers to get the most out of their VM investment with support for enterprise hypervisor features, including live migration, high availability, failover, and application deployment.

Cloud-Friendly Licensing – With capacity-based pricing and no additional charge for internal or external or internal application hosting, Zen Cloud Server makes it much easier for customers to move their application to the cloud.

Application Compatibility – Zen Cloud Server uses the same APIs and access methods as the standard version of Pervasive PSQL. An application that runs on Zen Enterprise Server database will run on Zen Cloud Server with no changes.

Licensing Flexibility – Capacity-based pricing means paying only for the work the database needs to do, without counting users or processors. With permanent and time-limited capacity increases available, Zen Cloud Server customers can easily fine-tune any license to meet business requirements.