Jedox Cloud – Technical Factsheet

How does the Jedox cloud work?

Setting up a new Jedox cloud solution takes minutes. A master management instance to administer the Jedox cloud is stored at the infrastructure provider. Different services are utilized including Elastic Compute Cloud, Route 53 DNS Service and S3 storage service. After initiating your Jedox cloud, the master image, where the Jedox software is pre-configured with individually modifiable templates, is transferred to the data center you specify, with your custom settings. Users benefit from creating discrete cloud instances for labs/sandbox, test, and production.

How many users can work with the Jedox Cloud?

Users can safely create separate cloud instances for labs, test, and production. Thanks to load balancing and processor scalability, memory, and storage, use-cases are possible with thousands of users.

What safety standards are met?

To provide the highest possible data security, Jedox uses the hybrid encryption protocol Transport Layer Security and protects all connections through HTTPS authentication.

All data stored in the Jedox cloud is encrypted by default and you can overlay further tokenizing services with full control of the token vault and the encryption keys securing the data. Jedox only collaborates with ISO-certified infrastructure providers **(ISO/IEC 27001:2005; ISO 9001:2008),** whose data-security and privacy standards are subject to frequent audits. Jedox cloud solutions comply with strict security requirements with monitoring and multi-factor access-control systems.

How can I connect third-party systems (on-premise and cloud)?

Jedox Integrator includes predefined connectors for SAP HANA and Salesforce. Integrator enables a hybrid approach to combine data sources from on-premise, public and private cloud. The Jedox Integrator can connect through automatic push jobs, or a TLS-secured VPN (**see fig. 1**). Jedox Integrator includes a rich-set of connectors including for file systems and directories, XML, SOAP and JSON, LDAP, JDBC and ODBC connectors including DB2, SAP BW/ECC6, SQL Server, and Oracle for fast and secure integration between your Jedox cloud instance and your upstream systems.

How can I use the Jedox Excel and Office add-in with the cloud?

Download and install the Jedox Excel Add-In on your local desktop or laptop. After installing, launch Microsoft Excel. You will have a new Jedox tool-bar. Add a new server connection using the Jedox Wizard on this toolbar. At step two of the Wizard, specify the address of your Jedox Cloud instance. This is found in your Cloud management console. Ensure that the Jedox OLAP port is accessible through your firewall by activating it in the Cloud console.

Where are Jedox cloud data centers located?

Jedox cloud uses cloud infrastructure providers with global customizable data centers:

☑ Dublin ☑ Frankfurt ☑ Karlsruhe ☑ Las Vegas
☑ North Carolina/USA ☑ North Virginia/USA
☑ Oregon ☑ Sao Paulo ☑ Singapore ☑ Sydney
☑ Tokyo

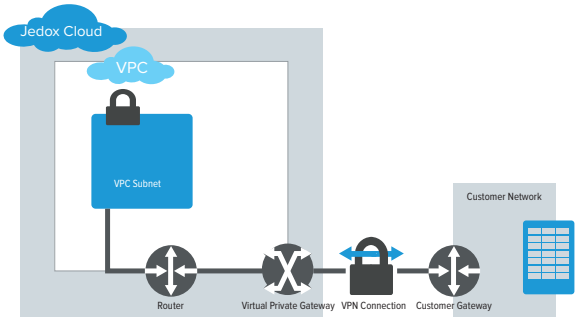

Fig. 1 Configure a VPC system to connect your on-premise data

How do I determine the right cloud sizing?

Cloud packages include combinations of CPU, memory, storage, and network capacity to give you the flexibility to choose the appropriate mix of resources for your applications. Packages range from Base to Performance.

When selecting a package, consider the characteristics of your application with regards to resource utilization. Our BI experts will help you identify a suitable cloud size, in line with your requirements. This includes factors such as data volumes, rules complexity, planning scenarios, and number of users.

When should I use GPU instances? (Performance package)

GPU instances work best for applications with massive parallel processing. GPU stands for Graphics Processing Unit. GPUs provide an alternative processing paradigm to traditional CPU. Where a CPU consists of a few cores optimized for sequential serial processing, GPU has a parallel architecture consisting of thousands of smaller, more efficient cores designed to handle multiple tasks simultaneously. CPUs typically have 8-16 CPU cores, while a GPU can have 2-4 thousand cores and double-precision performance of 2.91 Tflops of higher.

Jedox GPU is ideal for Big Data analytics in banking, point-of-sales transactions and other business applications where computational requirements are high, yet each task is relatively small. Jedox utilizes NVIDIA Tesla GPUs that are designed for GPU computing using the CUDA programming model. Jedox GPUs provide customers with high bandwidth networking, double precision floating-point capabilities, and error-correcting code (ECC) memory, making them ideal for High Performance Computing applications.

Licencing

The Jedox licensing model scales easily to fit your company's size and business requirements. Monthly invoicing gives you on-demand flexibility to add users or upgrade to extended functionality as your needs grow. Jedox has specific packs to match business scenarios. Starting with the Basic platform, through to Professional, Enterprise, and Performance, Jedox cloud provides flexible solutions that scale with your needs.

System

- ✔ High availability with a 99.95% uptime guarantee
- ✔ High redundant global infrastructure
- ✔ Extensive vulnerability and penetration tests
- ✔ 24 x 7 x 365 Monitoring

Secure architecture

- ✔ Secure data encryption
- ✔ IP restriction
- ✔ Customer isolation ensures that every customer is running in their own individual database. Customer information is never shared within the same database

BASIC	PROFESSIONAL	ENTERPRISE	PERFORMANCE
2 vCPUs	4 vCPUs	8 vCPUs	16 vCPUs
			2x NVIDIA TESLA GPUs
7,5 GB RAM	15 GB RAM	61 GB RAM	22,5 GB RAM
32 GB SSD storage	2x40 GB SSD storage	160 GB SSD storage	2x840 GB storage
FEATURES • High Frequency Intel Xeon E5-2670 v2 (Ivy Bridge) or Intel Xeon E5-2670 (Sandy Bridge) processor running at 2.6 GHz • SSD-based instance storage for fast I/O performance • Balance of compute, memory, and network resources	FEATURES • High Frequency Intel Xeon E5-2670 v2 (Ivy Bridge) or Intel Xeon E5-2670 (Sandy Bridge) processor running at 2.6 GHz • SSD-based instance storage for fast I/O performance • Balance of compute, memory, and network resources	FEATURES • High Frequency Intel Xeon E5-2670 v2 (Ivy Bridge) Processors • SSD-based instance storage for fast I/O performance • Support for Enhanced Networking	FEATURES • High Frequency Intel Intel Xeon x5570 • High bandwidth 10 Gbit/s networking • GPU cards feature double precision floating-point capabilities, and error-correcting code (ECC) memory