



publiccloud – your next generation infrastructure

Flexible. Scalable. Secure.

publiccloud offers an innovative and flexible alternative to your traditional IT infrastructure. Our needs-based service covers all requirements of modern organizations and offers the flexibility to react to changes in the market on demand.



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Even small and medium enterprises (SME's) have to give more attention to IT systems due to their increasing complexity and technical possibilities. In order to react accordingly to the changing market, it is often necessary to adjust your existing systems at a high cost. In addition to this the failure of an IT systems poses an increasingly greater threat.

With publiccloud, you gain access to a high security and innovative cloud data centre of the newest generation. Our services are certified according to the ISO 27001 standard, protecting all of your sensitive data from unauthorized access, while also providing the highest possible availability.

publiccloud provides highly accessible and automatized infrastructure services, including server, storage, network, security, backup, and many more. publiccloud also offers on-site services such as managed desktops, ThinClients, notebooks, network and WLAN components.

The licensing of Microsoft's software occurs through a rental system, ensuring you are always working with the newest versions.

With publiccloud, there are essentially no initial charges, and we invoice the services transparently on a quarterly basis.

Mission

- *You take care of your main Business and we will take care of ours. Your IT.*
- *Flexible, Scalable and Secure IT infrastructure, accessible at any time, from anywhere.*
- *Use your Capital for the development of your Business not for expensive Capital investments in your IT.*
- *Security, Reliability and Control. Our cloud services fulfill all of your expectations.*
- *Economical, Ecological and Sustainable, publiccloud protects Nature and your Expenditure equally well.*



What is Infrastructure as a Service (IaaS)?

Infrastructure as a Service is a cloud service that provides Hardware, Storage, Network and other infrastructure services through a cloud-computing infrastructure. As a Client you use certain defined Services that are volume and specification adjustable at any time. Mainly IaaS serves as a supplementary solution to already existing Infrastructure in a Hybrid Cloud system.

publiccloud – the modern Swiss Data Center

Innovative. Secure. Ecological. The publiccloud data center utilizes the newest technologies and satisfies the highest security requirements set by the Swiss Federal Data Protection and Information Commission. Innovation, Security and Environmental sustainability form the three pillars upon which we have built our Swiss data center.



Security

Extensive measures guarantee the security of the building. Administrative processes, access control, video surveillance and an alarm system all guarantee the security of the facility.



Connection

The Colt Backbone in Zurich connects our data center to the internet through two provider independent Fiber links. The connection has a speed of 100Mbit/s and a guaranteed up time of 99.99%.



Power Supply

The publiccloud power supply guarantees the continuous security of the electrical supply. The UPS as well as emergency backup generators ensure the continuous supply of power.



Operation

A high degree of automation and standardization of our processes ensures the flawless operation of the data center. Highly trained specialists ensure the 24/7 operation of the facility.



Air Conditioning

A Fresh Air Cooling system cools the data center. This innovative concept only requires about a tenth of the power of a regular computer room air conditioning unit.



Monitoring

The continuous surveillance of all components and services allows us to react as quickly as possible to extraordinary events and helps in the continuous improvement process.



Sustainability

The innovative and sustainable Fresh Air Cooling system together with the exclusive use of green energy and our recycling concept make our data center especially environmentally friendly.



Fire Protection

Our data center is equipped with a modern 3M Novec 1230 gas extinguishing system. Additionally the entire facility is equipped with fire detectors, which notifies the authorities for a quick response.

The publiccloud data center is in central Zurich and Colt, who is a renowned and internationally well-connected provider, provides the required infrastructure for high-speed connectivity. The proximity to the Swisscom infrastructure and the EWZ fiber building offer great connectivity alternatives.

Our data centre and services are certified according to the internationally recognized ISO 27001 standard for information security and are audited regularly.



publiccloud
next generation infrastructure

publiccloud – Security and Data Protection

Integrity. Availability. Confidentiality. Security or better said the security of your IT and other information is one of the most important tasks for a modern business. While safety and security both are basic human needs, they do not hold the same value in the business world, which in return can have disastrous consequences.

The increasing complexity and technical possibilities also force small and medium enterprises to shift their focus on IT security even for “small” businesses, as an existence without any information technology seems impossible in the 21st century.

publiccloud provides services that are only of the highest quality and security. The three security targets of integrity, availability and confidentiality form the central focus for publiccloud.

Integrity:	Protection from data corruption
Availability:	Ensuring data availability
Confidentiality:	Data loss / misuse prevention

Every planned change of the security system is assessed and their consequences considered thoroughly before implementation.

publiccloud takes extensive precautions to protect the clients' sensitive data. Based on the international ISO 27001 standard, publiccloud takes appropriate measures and controls these regularly.

Some of the safety measures include:

- ***Access control and video surveillance of the data center***
- ***24/7 Monitoring and Surveillance of the systems***
- ***Physical Data Center Surveillance (Fire, air, intrusion, humidity, etc.)***
- ***Newest generation Fire Extinguishing systems with early fire recognition***
- ***The building and Data Center are equipped with dual power supply lines***
- ***UPS based Power Supply with a modern lightning protection system***
- ***Use of a mobile Emergency Generator***
- ***Regular check-ups and recurring maintenance***
- ***Separation and segmentation of Networks***
- ***Use of professional and powerful Firewall systems***
- ***Backup, off-site and archiving of data on long-term media***
- ***Ultra-fast and redundant fiber connection to the Internet***

Data Protection

Data protection = In the interest of legislation

In IT we understand Data Protection as protection of Person specific data.

Data Security

Data Security = In the interest of your Company

Under Data Security we interpret protection against manipulation, constant access availability and also data loss prevention.



Switzerland. 
Your Data Location.

publiccloud – Server

Premium. Standard. Basic. Individual. publiccloud servers are available in three standard base configurations: Premium, Standard, and Basic. In order to satisfy your specific needs, we also offer you individual configurations and dedicated server clusters.

The server listings of publiccloud offer a solution to all those who have high demands for their server infrastructure, our offerings are considerably different from those of regular hosting services. Unlike other hosting services, publiccloud offers comprehensive IaaS solutions that allow you to operate your infrastructure completely isolated.

publiccloud provides highly automatized infrastructure services that provide a high availability.

publiccloud Server Premium

The Premium Server satisfies the highest of demands and offers great performance:

CPU	2 physical Cores (Intel Xeon >2.5 GHz)
RAM	24GB RAM
Storage	1TB Storage

publiccloud Server Standard

The Standard Server fulfills the most common business applications and requirements:

CPU	1 physical Core (Intel Xeon >2.5 GHz)
RAM	16GB RAM
Storage	250GB Storage

publiccloud Server Basic

The Basic Server completes our offer with an inexpensive and simple server:

CPU	1 virtual CPU
RAM	4GB RAM
Storage	50GB Storage (only in conjunction with other servers)

publiccloud Server Individual

The Individual Server meets all of your needs from individual servers to your own server cluster:

CPU	up to 8 physical Cores (Intel Xeon >2.5 GHz)
RAM	up to 192GB RAM
Storage	up to 18TB Storage

publiccloud Site Server

The Site Server offers you a local duplicate of your data/services on a managed hardware:

Basic	Tower, 4GB, 1TB HD
Standard	Rack, 8GB, 2TB HD
Premium	Rack, 16GB, 4TB HD
UPS	Including UPS

publiccloud Managed Server

The option Managed Server is the all-inclusive package for your server and includes the operation and support:

Bronze Support (by Portal and Email)
Monitoring
Incidents & Maintenance

General Specifications

- 100Mbit/s high available internet connection
- 10Gbit/s network speed based on Fiber
- Licensing your Microsoft Software through a rental model
- 5-generation backup using Snapshots
- Management through Microsoft System Center
(Antivirus, monitoring, deployment, backup, etc.)

publiccloud Basic Package

With your first server with us, you receive an extensive basic package including:

- 1 fixed Public IP address
- 1 private VLAN (virtual network)
- 5 Firewall Rules incl. NAT
- 1 Site to Site VPN Tunnel

publiccloud – Managed Desktop

Powerful. Adaptable. Intelligent. Imagine your Desktop could adjust itself to your needs at any time. publiccloud Desktop offers you an extensive and flexible portfolio of Terminals that will satisfy your current and future needs for a modern system.

The desktops has become the central work tool for all types of employees with diverse requirements. Ranging from the simple desktop, to the powerful computing system and mobile workstations, publiccloud has a wide range of desktop variants available.

Especially the Zero and Thin Clients are gaining an increasingly important role, as they are systems that are simple and managed centrally. The Zero client uses a Thin-OS, which is an operating system in its most basic form. While the Thin Clients are based on slim and flexible Windows Embedded from the newest generation. Both simplify working on the PC for your staff, as they are easier to manage, more reliable and more cost effective to operate than conventional computers.

publiccloud Zero und Thin Client

The publiccloud Zero and Thin Clients are the foundation for a modern and slim client infrastructure and perfectly complete the server portfolio.

MFR	Wyse
OS	Zero Client: Thin-OS Thin Client: Windows Embedded
TFT	24" Business TFT

Bronze Support (by Portal and Email)
Monitoring and central Management
Incidents & Maintenance

publiccloud Windows PC

The publiccloud Windows PC is available in two variants. With the PowerPC offering you additional performance for demanding applications.

MFR	DELL / HP Business PC
OS	Windows of the newest generation
TFT	24" Business TFT
PowerPC	8GB RAM, SSD

Bronze Support (by Portal and Email)
Monitoring and central Management
Incidents & Maintenance

publiccloud Windows Notebook

The publiccloud Windows Notebook is available in two variants. There is a choice between two display sizes.

MFR	DELL / HP Business Notebook
OS	Windows of the newest generation
TFT	14" or 15" display

Bronze Support (by Portal and Email)
Monitoring and central Management
Incidents & Maintenance

publiccloud Managed Desktop

The option Managed Desktop is available for clients that already have a computer of a newer generation. The condition for this service however is an active running contract (NBD On-site) of at least 2 years duration.

Bronze Support (by Portal and Email)
Monitoring and central Management
Windows of the newest generation
Incidents & Maintenance

publiccloud – Thin Computing

Powerful. Adaptable. Intelligent. As a desktop replacement, the Thin Client from publiccloud offers more than just cost savings. A closer look at Thin Computing and the Thin Clients from publiccloud are definitely worth it.

The Thin Client has established itself for a while now as a modern tool within the workplace. Still, the Thin Client has not yet had its breakthrough with small and medium enterprises. Thin Client originates from the terminal-mainframe-architecture which actually qualifies as a tested and proven system itself.

The power of a PC but without the hassle. The publiccloud Thin Clients are compact, efficient, and productive desktops that are the perfect addition to your existing publiccloud server Solutions, but without the complexity and cost associated with regular desktops. All of the data processing occurs at the central terminal server that manages all the inputs and outputs of the Thin Client.



Thin Clients are highly secure access terminals. Utilizing these, you are able to increase the productivity and application flexibility of a PC without the usual “drawbacks” of a fat-client.

The publiccloud Zero Client operates on Thin-OS which is an operating system reduced to the absolute basics. The publiccloud Thin Client however is a slim and flexible Windows Embedded operating system of the newest generation. publiccloud manages all Thin Clients at their data center meaning there are essentially no maintenance tasks at your location. Therefore, publiccloud manages and maintains the devices completely remotely.

The high scalability also provides another benefit compared to other concepts. New workstations are easy to configure as only a Thin Client and network connection actually needs to be configured. This also provides much more security since no data can be stored on any local drives.

The low energy use also means the devices have a low heat-output and contribute to a pleasant and environmentally friendly work environment.

publiccloud – Managed Security

Security. Reliability. Control. Hardly any other provider offers their customers a comparable security portfolio for centrally managed security solutions in the areas of access, e-mail, web, and system security.

The publiccloud Security Services overview:

publiccloud Managed Firewall

The publiccloud Managed Firewall consists of multiple configurations and has a central management, logging and reporting system. publiccloud monitors the devices 24/7 and performs regular updates and maintenance. The Managed Firewall service includes support and all associated smaller configuration changes.

publiccloud Managed E-Mail Security

In order to protect your e-mail systems, publiccloud offers an extensive e-mail security system. Our system utilizes a multi-level security filters. The publiccloud E-Mail Security scans your e-mails based on various SPAM lists, antivirus signatures, content filters and the renowned Reputation Enabled Defense (www.reputationauthority.org).

publiccloud Managed VPN

The most important aspect of your publiccloud infrastructure is your ability to access the data center. In order to connect your office to the central systems securely publiccloud offers encrypted VPN access solutions. Remote offices and employees can access the publiccloud data center easy and safety equally.

publiccloud Dedicated Security

Alternatively, all publiccloud security solutions are available as a dedicated service. Therefore, you are free to choose to run your security services by publiccloud on a dedicated and managed system in the publiccloud data center. You have the choice and control over the configuration of your services according to your needs.

We at publiccloud care about the security of your systems and offer you customized services for the protection of your publiccloud services. We do not blindly rely on the deployed systems and processes but continuously monitor and improve them. Our specialists are in a continuous process of training and education for this subject.

Why is IT security so important?

As a company, you carry the responsibility to meet the requirements defined by law regarding the security of your client's data. The data that IT systems manage is often at the core of any company therefore the loss of such data can have widespread consequences.

publiccloud – Managed Network

Uncompromising. Available. Connected. With the Managed Network services, publiccloud offers powerful network components. This also includes services for mobile devices that connect over Wireless LAN.

publiccloud offers a wide selection of managed switches for you to utilize for your locality. From the simple access switch to the abundant 10GbE Core Switch installations, many scenarios are possible. The publiccloud Managed Network Service consists of the listed variants below.

publiccloud manages and supervises all Managed Network components 24/7. The publiccloud Network Service includes the operation and support of the deployed components. Based on the large selection of services that publiccloud offers, we can cover a wide range of client needs.

publiccloud exclusively deploys network components from the best manufacturers that have stood the test of time and provide powerful solutions. Especially noteworthy are the network components by DELL and HP ProCurve.

In addition to the publiccloud Managed Security Services you have access to extensive connectivity solutions for the secure and efficient connection of your devices to the publiccloud data center. For all of your chosen services publiccloud deals with all of the management and operational aspects.

publiccloud Managed Network Basic

The Basic series is especially suitable for simple and undemanding applications without the need of extensive management.

Nr. of Ports	16 or 24
Speed	Gigabit
Mgmt	Web-Managed

publiccloud Managed Network Standard

The Standard series excels through its excellent price-performance ratio and offers full Layer-2 support and the accompanying management.

Nr. of Ports	24 or 48 (also available as a PoE)
Speed	Gigabit, 10GbE Uplink
Mgmt	Managed, Layer-2

publiccloud Managed Network Premium

The Premium series offers uncompromising 10GbE performance and is suited as the core switch for complex infrastructures.

Nr. of Ports	24 or 48
Speed	10GbE, 40GbE Uplink
Mgmt	Managed, Layer-3

publiccloud Managed W-LAN

publiccloud offers a centrally managed WLAN network. Due to the central controller, there are no interferences among the separate access points and a seamless transition between them is possible.

Radio	802.11n/a/b/g
Profile	Private und Public (Guest network)

publiccloud – DELL Fresh Air Cooling

Fresh Air. Ecologic. Inexpensive. DELL Fresh Air Cooling utilizes fresh air from outside to cool the data center. The use of fresh air for the cooling of data centers means a drastic reduction in the energy costs and CO2 emissions.



No, it's cool for your servers to run hot.

Driving efficiency to bring a breath of fresh air to the datacenter.

With DELL Fresh Air Cooling, the cooling systems feeds the fresh air from outside to cool the system. The industry norm for normal air-conditioned data centers lies at about 35°C. To not exceed this value the outside temperature has usually to be relatively cool. Due to special DELL hardware, that allows higher operating temperatures and close coordinating work, it is possible to use this fresh outside air even in hot summer months.

DELL has tested and validated this solution and allows the operating temperatures to increase by 10 degrees Celsius. The DELL Fresh Air Solution offers the following benefits:

- Enables operating temperatures of up to 45°C
- Allows the operation of the facility in up to 90% humidity
- Makes the use of compressor cooling redundant or at the very least limits its use

DELL has developed and validated this solution for server, storage, network and power components. This allows the year round operation of the facility at temperatures between -5°C and 45°C and humidity between 5% and 90%. The newest tests have shown that the components that use fresh air cooling can run error free up to 900 hours in a 40°C environment. At temperatures of 45°C they still run error free for up to 90 hours per year.

With these temperature tolerant solutions, modern data centers can drastically reduce the energy costs. In addition, the risk of failure of your system is lower in the case of a cooling issue.

