

CLOUDSTACK PRIVATE CLOUD

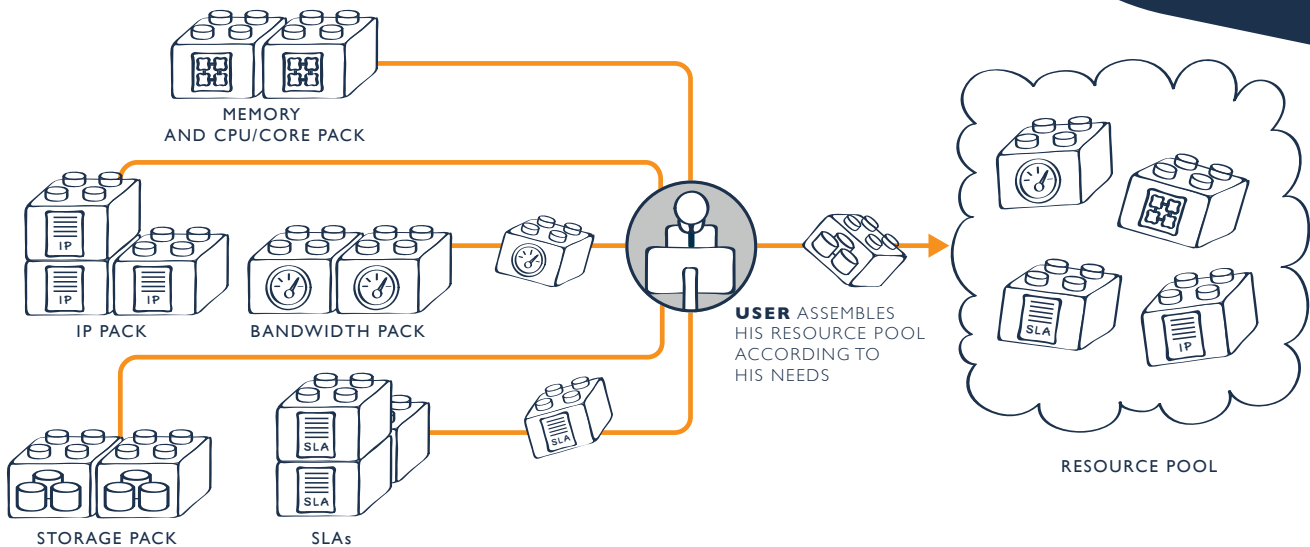
This cutting-edge private cloud lets you take advantage of virtualization benefits like elasticity, ease of use, and scalability, with the ability to allocate dedicated pools of resources. This increases your flexibility, reduces your costs, and helps you deliver new systems and services at much greater speeds.

We deliver the product to you in turn-key form, which gives you the freedom to scale and customize your virtual infrastructure exactly as you require. Resource pools let you create and manage multiple instances with your choice of operating system, combined with the total flexibility to allocate dedicated resources. These resources include dedicated cores, RAM, storage, firewalls, and load balancers. Resource pools also give the ability to create and manage multiple virtual networks within your cloud environment, and gives you access to our completely redundant storage platform.

It contains an extensive set of features, which includes flexible compute allocation, virtual networking, user and account management, open API, and rich user interface. You can also increase the security and scalability of your environment through the addition of software-based firewalls and load balancers.

KEY FEATURES

- **Powerful API:** easily integrate the Apache CloudStack API to gain access to the extensive array of features
- **Rich GUI:** user-friendly, AJAX-based management GUI – fully compatible with the latest Internet browsers
- **Dedicated resources:** receive a virtually unlimited amount of on-demand computing resources – with dedicated cores for each individual instance
- **Fault tolerant design:** all host and guest machines have built-in high-availability
- **Snapshot management:** take ad-hoc snapshots of disk volumes to mitigate data loss and aid disaster recovery
- **Firewalls:** integrate software-based firewalls to provide additional security
- **Load balancing:** integrate software-based load balancers to provide increased scalability
- **Virtual networking:** create multiple private networks, independent from one another
- **Template cloning:** easily deploy cloned instances via simple template creation processes
- **ISO and template management:** upload and manage OS templates and attach ISO images to your instances
- **Projects:** define multiple project groups to collaborate and share resources between teams
- **SLA:** receive enhanced SLAs



Resource pools provide you with the freedom to orchestrate virtual resources such as dedicated cores, RAM, storage, bandwidth, and IPs as required.

ADVANTAGES

Flexible resource orchestration

Receive the flexibility to allocate and distribute resources among instances and projects, such as dedicated cores, memory, and IPs, as you see fit. For example, increase the number CPUs allocated to an instance to speed up efficiency. While you can also integrate software-based firewalls and load balancers, in order to upgrade security and boost scalability.

Cutting-edge technology

Receive access to an up-to-date solution based on open source software, which meets the changing demands of the private cloud-computing market. This is in stark contrast to other private clouds, which are often not as dynamic.

Enterprise-class hardware

We always use leading-brand servers from vendors such as Dell, HP, and IBM. This gives you access to the latest hardware, while all the components are equipped with redundancy in mind, so even in the odd case of any failure, this reduces your downtime to the absolute minimum.

State-of-the-art network

The platform of these private clouds connect to the LeaseWeb Premium Network, which includes access to 33 IXs and 52 PoPs, provides a core uptime of 99.9999%, with an available bandwidth of 4.5 Tbps. While all resource pools feature multiple IOGE connections to different physical routers.

Redundant storage

This solution has redundant storage levels, so there are no single points of failure in your environment. While users are free to add/remove disk volumes, create templates from these volumes, upload and create ISOs, take ad-hoc snapshots and view your snapshot history.

Virtual networking

This product gives you the possibility to build multiple virtual networks, independent of one another, which includes the selection of IP addresses, creation of subnets, load balancers, and network gateways.

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