

# Case Studies

These case studies are designed to highlight successful deployments of Apache CloudStack and to inform other users on how organizations are successfully implementing the open source infrastructure-as-a-Service platform.

## Telia Latvia add customer value and decrease time to market of services by utilising Apache Cloudstack

Telia Latvia was founded in 1992 as a telecommunications company with a focus on data communications and internet services. In 2009 they established one of the most modern data centres in the Baltics and in 2013 introduced new generation cloud and CDN services. They now deliver best-in-class cloud and telecommunication services to customers in the Baltics and beyond.

Telia Latvia now runs both public workloads for customers but their cloud is also used for their own internal workloads and services such as cloud-based surveillance, virtual desktops, backup and storage as a service.

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## GreenQloud Accelerates the Market Adoption of a Cleaner Cloud and Offers a Full Cloud Infrastructure Stack Built on Apache CloudStack

Founded in 2010, GreenQloud began their journey with the founders of cloud.com by building a prototype platform for a public cloud. GreenQloud chose to build their platform on top of CloudStack because they found many benefits from a fully open source stack to which they could also contribute. GreenQloud was one of the earliest contributors, and is responsible for CloudStack's Amazon EC2™ compatibility.

Today, GreenQloud offers a full cloud infrastructure software stack for private, public and hybrid IaaS compute and storage all the while leading the path to green IT and sustainability. GreenQloud is a cloud solutions company offering standalone private cloud, hybrid cloud and Truly Green™ public cloud computing virtual servers and data storage (IaaS) powered by renewable energy. GreenQloud's cloud services, feature an easy-to-use, self-service web console and advanced, compatible API controls for full automation of IT services.

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## Exoscale a Swiss Cloud Provider Expands its Cloud Services with Apache CloudStack

Exoscale is a global provider of swiss-based cloud services. Exoscale offers local or international companies real technological and financial benefits while preserving top-level customer relationship. Its service catalog proposes IaaS products from compute to storage. Exoscale combines cloud computing advantages with the know-how and experience of Veltigroup, a major and local ICT player in Switzerland. This combination between Cloud agility and proximity of a trusted service provider makes Exoscale unique on the market.

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## TomTom Speeds Time-to-Market While Driving Out Costs with a Private Cloud

Founded in 1991, TomTom is a leading provider of navigation and location-based products and services. TomTom maps, traffic information and navigation technology power automotive in-dash systems, mobile devices, web based applications and government and business solutions. TomTom also designs and manufactures its own location-based products including portable navigation devices and fleet management solutions, as well as GPS-enabled sports watches. Headquartered in Amsterdam, TomTom has 3,500 employees worldwide and sells its products in over 35 countries.

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## ASG uses Apache CloudStack to Build CloudFactory that will Help Customers Plan, Deploy and Manage Internally or Externally Hosted Cloud

ASG provides Global 5000 businesses with world-class professional services and software solutions for Metadata Management, Applications Management, Operations Management, Content Management, Performance Management, Security Management and Infrastructure Management. Through a wealth of technologies, which have been either developed in-house or gained through strategic acquisitions, ASG enables clients with both mainframe and distributed environments to mobilize their resources, boost productivity, and enhance performance through the intelligent use of technology.

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## PC Extreme - Netherlands

PCextreme is one of the leading Internet Service Providers in Netherlands. The company offers a wide range of ready-to-use services including web hosting, colocation, dedicated servers, domain names and managed services. As a pioneer in the affordable hosting market, PCextreme operates with a level of scale and efficiency that allows them to combine reliability with competitive prices. What started out as a hobby for Wido den Hollander, CTO of PCextreme, quickly grew to become one of the leading hosting services providers in the Netherlands, serving over 40,000 customers and hosting PCextreme is one of the leading Internet Service Providers in the Netherlands. The company offers a wide range of ready-to-use services including web hosting, colocation, dedicated servers, domain names and managed services. As a pioneer in the affordable hosting market, PCextreme operates with a level of scale and efficiency that allows them to combine reliability with competitive prices. What started out as a hobby for Wido den Hollander, CTO of PCextreme quickly grew to become one of the leading hosting services providers in the Netherlands, serving over 40,000 customers and hosting 100,000 websites in two datacenters. PCextreme has deployed 120 racks of Supermicro server in those two datacenters.

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## ISWest - United States

ISWest is a regional ISP based out of Agoura Hills, CA (approximately 30 miles north of Los Angeles). Started originally as a dial-up ISP, ISWest moved into the standard suite of ISP services including various forms of connectivity (DSL, T1, DS3, OC-x, Ethernet, etc) as well as ancillary services such as shared web and email hosting.

Early growth was accomplished with a focus on small and medium sized businesses in the southern California area through strategic partnerships with outsourced IT organizations and customer referrals.

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## Grid'5000 - France

Grid'5000 is a scientific instrument for the study of large scale parallel and distributed systems. It aims at providing a highly reconfigurable, controllable and monitorable experimental platform to its users. Currently, Grid5000 operates 1195 physical hosts, for a total of 8184 cores across 10 sites.

In 2003, the Grid'5000 project was launched as a project of the French ACI Grid incentive.

Grid'5000 has now reached its objective of exploiting the computational power of over 5,000 core processors to form the only research platform of its kind. There are 19\* [laboratories](#) involved in France with the objective of providing the community a testbed, allowing experiments in all the software layers between the network protocols up to the applications.

Today, the ALADDIN-G5K initiative has been put in place by [INRIA](#) to ensure the development and day to day support of the infrastructure.

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