

SOLUTION BRIEF

Private Cloud for Universities

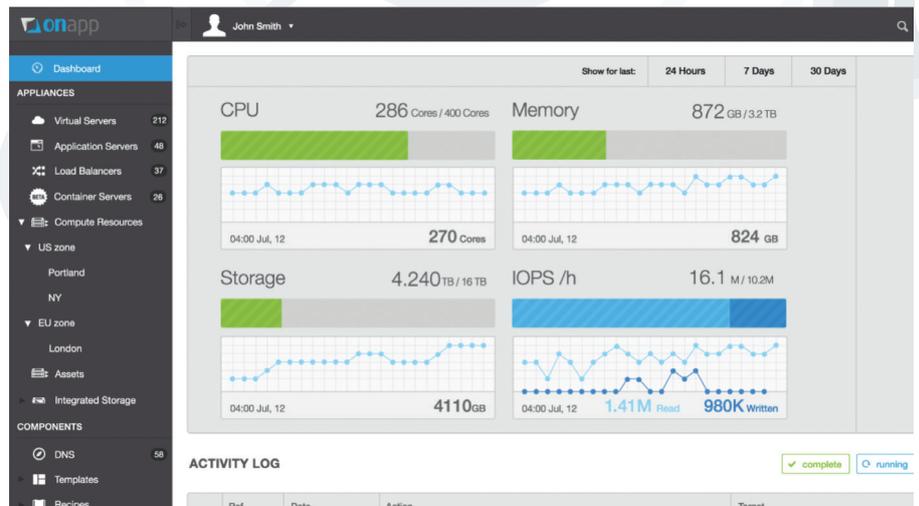
Universities have to deliver a huge range of IT capabilities to meet the needs of different faculties, departments, students and researchers - as well as the staff and systems that support the day-to-day running of the organization.

KEY BENEFITS

- ▶ **Improve IT utilization:**
OnApp gives you unified control of infrastructure across one or more sites - creating a pool of IT resource that can be shared, metered and charged for however you wish
- ▶ **Reduce support costs:**
OnApp enables self-service provisioning of applications and instances within limits and permissions that you define
- ▶ **Automate provisioning:**
OnApp has hundreds of ready-to-deploy templates- from vanilla Linux and Windows OSs, to LAMP stacks, IDEs, Wordpress and Moodle - and you can easily create your own
- ▶ **Agnostic:**
OnApp is a multi-hypervisor, multi-cloud platform that works with a wide range of x64 hardware - and is available as a pre-configured private cloud appliance, running on Intel® datacenter blocks infrastructure.
- ▶ **Centralized management:**
manage system health, usage, templates, users & more through one UI
- ▶ **Autoscaling:**
OnApp automatically scales CPU, RAM and storage based on configurable thresholds - further reducing manual intervention and cost

Meeting the wide-ranging IT needs of a modern university can be a challenge for IT teams that have to manage a mix of legacy infrastructure, virtualized infrastructure and third party public clouds - and even more difficult when different departments are procuring their own hardware and software solutions.

With OnApp, you can transform your IT department into an agile, cost-effective internal cloud service provider - enabling you to consolidate and centralize IT, reduce cost and management overheads, and introduce secure self-service for any number of user types, across one or many sites.



A complete private cloud solution

OnApp is a complete private cloud solution for universities. Proven in thousands of global cloud deployments, OnApp enables you to create your own secure private cloud environment, with automated orchestration, automated provisioning, and flexible control over which IT resources are available to which individuals, teams and departments.

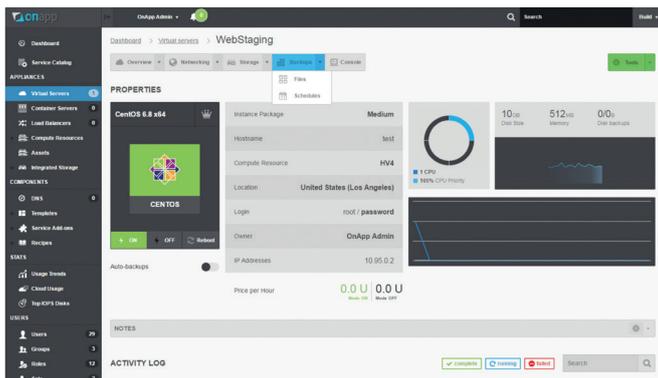
With workflow automation, metering, billing and governance built in, OnApp helps you improve IT responsiveness, improve ROI, and free up resources to invest in new business and research opportunities.

Smart IT for Higher Education

OnApp creates a true public cloud experience inside your own private cloud infrastructure - enabling your IT department to provide efficient, agile IT that's customized for the needs of different faculties, departments, staff and students.

Efficient virtualization and cloud management

OnApp uses its own virtualization technology, based on the open source XEN or KVM hypervisors used in AWS and Google public clouds - but with our own battle-tested and hardened customizations to optimize performance, security and efficiency for your private cloud. OnApp also integrates with VMware, Amazon EC2, and the huge global network of OnApp public clouds - giving you the ability to manage distributed IT through a 'single pane of glass' user interface.



Secure self-service IT

OnApp private clouds enable you to define and control just who has access to what. With extensive role-based access control and built-in policy management for permissions, limits and approvals, you can choose whether to control IT resources centrally, devolve IT decisions to teams across distributed sites, or anything in between - and enable self-service within the frameworks you define.

End-to-end IT automation

OnApp automates cloud orchestration, provisioning, backups through one central control panel, with wizards and on-screen controls for all key functions, and a built-in workflow automation system.

You can centralize provisioning of IT resources, enable users to self-serve IT resources, or combine both strategies depending on configurable user and departmental permissions and limits. OnApp also automates load balancing, scaling and backups, and provides DevOps tools for orchestrating applications management. It also includes a full API.

Software-defined storage

OnApp includes a complete software-defined storage system, so you don't have to invest in a proprietary SAN to build

your cloud. OnApp pools the capacity of disks in your cloud's compute nodes, to create a fast, resilient distributed storage environment, with full control over performance and replication at a cloud, storage tier and application level.

Remote replication & migration

OnApp supports real-time replication to one or more remote sites. You can replicate workloads from remote locations to your head office, and migrate workloads seamlessly between locations using our Cloud Motion technology.

User management & governance

OnApp's advanced Role Based Access Control (RBAC) system makes it easy to manage users across multiple departments and sites. You can provide any mix of users, departments and applications with highly granular, controlled access to resources across your IT infrastructure - and track and log changes from a single point of control.

OnApp's flexible zoning capabilities also make it easy to allow secure access to IT resources for external business and research partners.

Metering for chargeback/showback

OnApp includes a comprehensive resource metering system that supports a wide range of chargeback, showback and billing strategies - whether you need to assign cost to internal users or departments, or even invoice end users.



Template library & service catalog

OnApp has a huge library of Linux, Windows and BSD operating system templates, and templates with applications pre-installed. OnApp maintains a central catalog of services that can be provisioned by users from a single log-in, even if the services exist in different locations: for example, virtual server instances and apps that deploy automatically, or professional services that are manually fulfilled by your IT team.

More information:

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