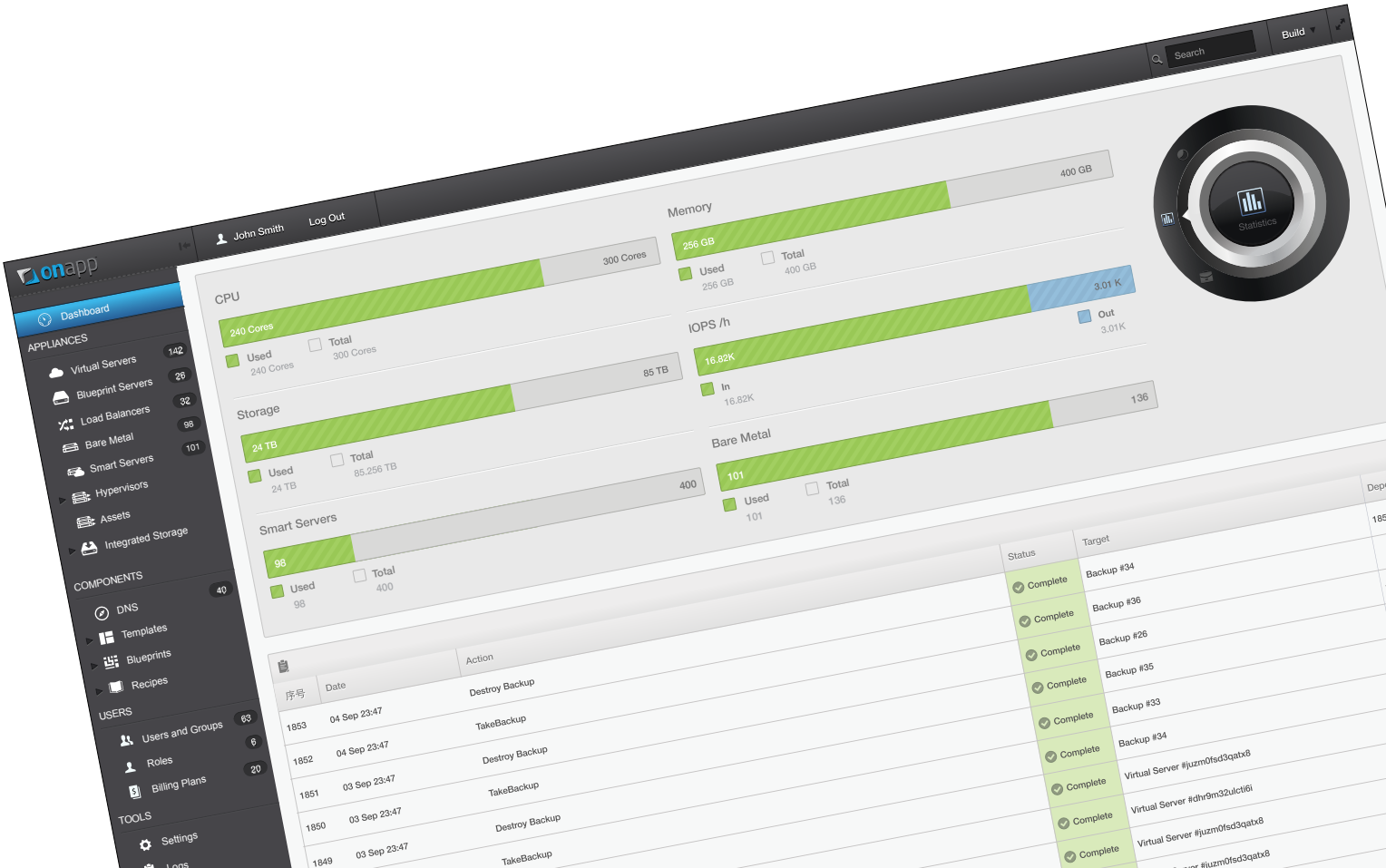
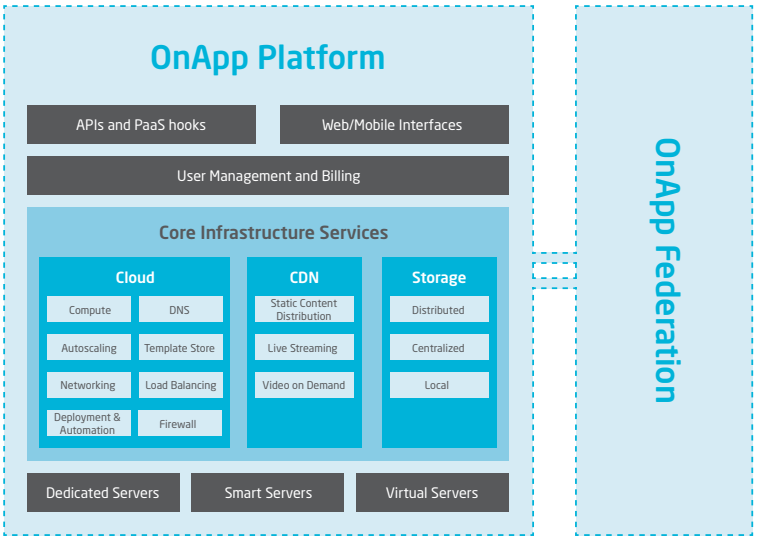
Overview

The OnApp Cloud Platform



The complete cloud platform for service providers

OnApp software transforms your datacenter into a flexible, scalable and highly automated platform for Infrastructure-as-a-Service cloud, VPS, dedicated servers, smart servers, CDN, DNS, storage and more.

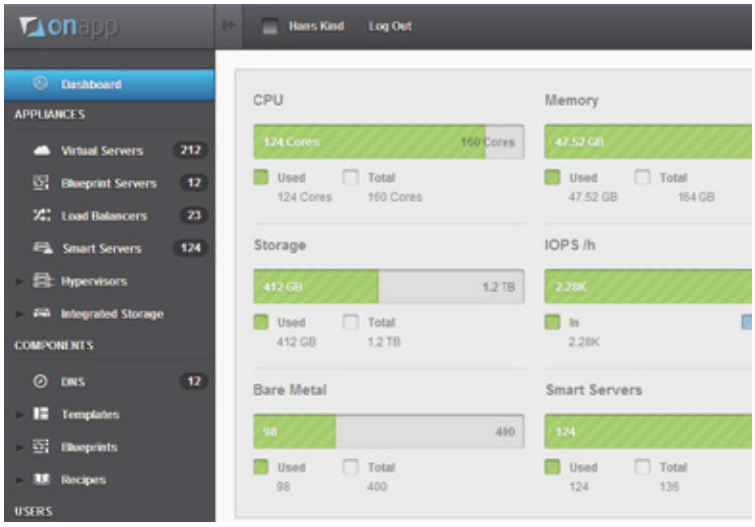


What can you sell with OnApp?

- Public, private & hybrid cloud (Xen, KVM, VMware)
- VPS based on SAN or local storage
- Dedicated servers with full automation
- Smart servers (hybrid cloud/dedicated)
- CDN (static and streaming) + DNS
- Templates, IPs, VMs, IOPS, tiers, zones
- And much more... with OnApp, all of your infrastructure is billable

One control panel - one pane of glass

OnApp is designed for service providers. You can deliver a huge range of services through one UI, with a wide range of billing models supported - so you can offer hosting for every customer workload.



An end-to-end, turnkey platform

- Deploys on commodity hardware
- Integrated SAN, user management, metering, monitoring
- Ready-to-run autoscaling, automatic failover, load balancing, firewall
- Workflow automation
- Huge template library
- Customizable web and mobile control panels
- 24x7 support included

Designed for hosts, telcos and MSPs

OnApp is designed for service providers. It includes everything you need to sell cloud and more in one fully customizable control panel.

Easy to deploy

Get to market fast with OnApp. It's a turnkey platform with all of the orchestration, management and provisioning capabilities you need to sell services, and you can be up and running in days, not months. You can deploy OnApp in your datacenter, or get OnApp with a growing range of hardware and hosting packages from our partners.

Easy to use

The OnApp control panel makes set-up, provisioning and management as easy as possible for you and your customers.

You can customize and brand it with your own look and feel, and it's all permissions-driven, so you can give different levels of control to different users.

Highly scalable

OnApp has an intelligent provisioning system that optimizes the way your cloud uses hardware resources, and an efficient network design that enables your cloud to scale easily as you grow.

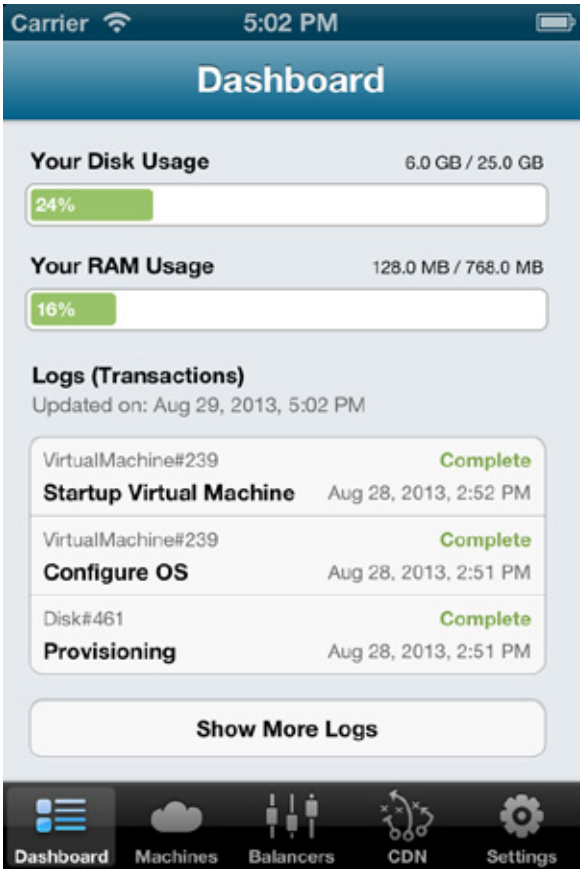
You also get access to the OnApp Federation, and a growing range of federated cloud services that enable you to extend your reach to 170+ locations all over the world.

Highly resilient

OnApp clouds are self-healing and extremely resilient. Failover starts automatically if a physical server becomes unresponsive: virtual servers and smart servers migrate to a healthy server in your cloud.

Simple licensing, support included

There are no up-front software costs with OnApp. Just a simple monthly license that includes free installation, free upgrades and free 24x7 support by 'phone and email.



Hardware requirements

1 x Controller server: dual or quad core 2Ghz+, 8GB RAM (16GB+ recommended), 100GB RAID 1, 2 Gig NICs, CentOS 5/6 x64

2 x Hypervisor servers: quad core 2Ghz+, 8GB+ RAM, 30GB HD (SSD recommended), 4 Gig NICs, CentOS 5/6 x64

1 x Backup server: dual or quad core 2GHz+, 4GB RAM (8GB+ recommended), 2TB storage mounted locally, 2 x Gig NICs, CentOS 5/6 x64

1 x Data store: 1TB Block Storage (iSCSI, ATAoE, Fiber) or distributed SAN using OnApp Storage & local disks in hypervisors

Core capabilities

OnApp gives you a complete set of Infrastructure-as-a-Service building blocks, and an easy way to combine them into a huge range of cloud and dedicated hosting services.

Cloud and dedicated servers supported

- Virtual servers - Xen 3, Xen 4, KVM, VMware
- Smart servers - KVM
- Bare metal servers
- CDN edge servers (static and streaming)

Autoscaling and load balancing

- Automatic load balancing of selected virtual servers
- Autoscale up and out based on configurable thresholds: add RAM, CPU and disk to a virtual server, or clone a new virtual server

Huge template library

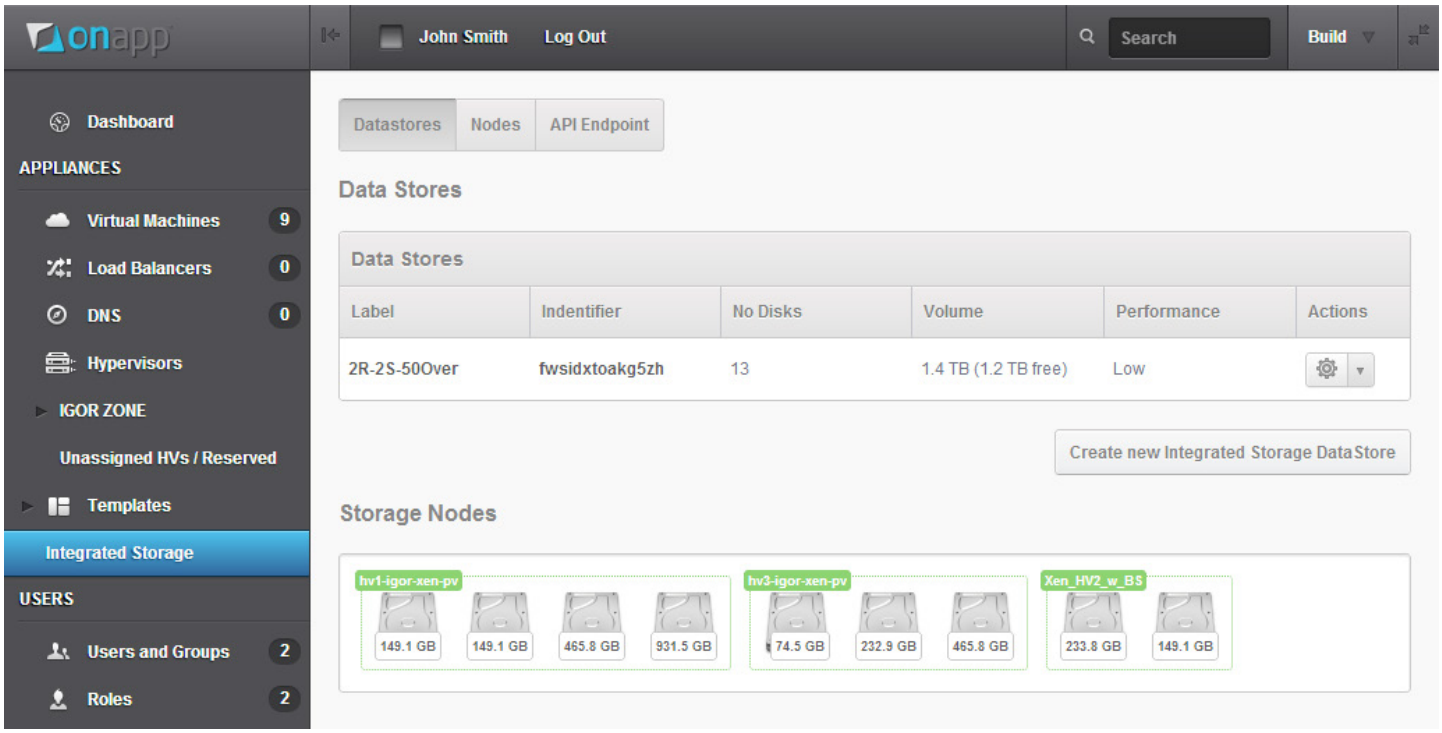
- Hundreds of OS & app templates based on:
  - ArchLinux, CentOS, ClearOS, CloudLinux, Debian, Elastix, Endian, Fedora, FreeBSD, Gentoo, Mageia, Openfiler, openSUSE, PBXWare, R1SOFT, Red Flag, Red Hat, Scientific Linux, Slackware, SME Server, Ubuntu, and JumpBox virtual appliances
  - Windows XP/2003/2008/2012/7/8 (MAK, KMS and 'bring your own' licenses)
- Create your own templates

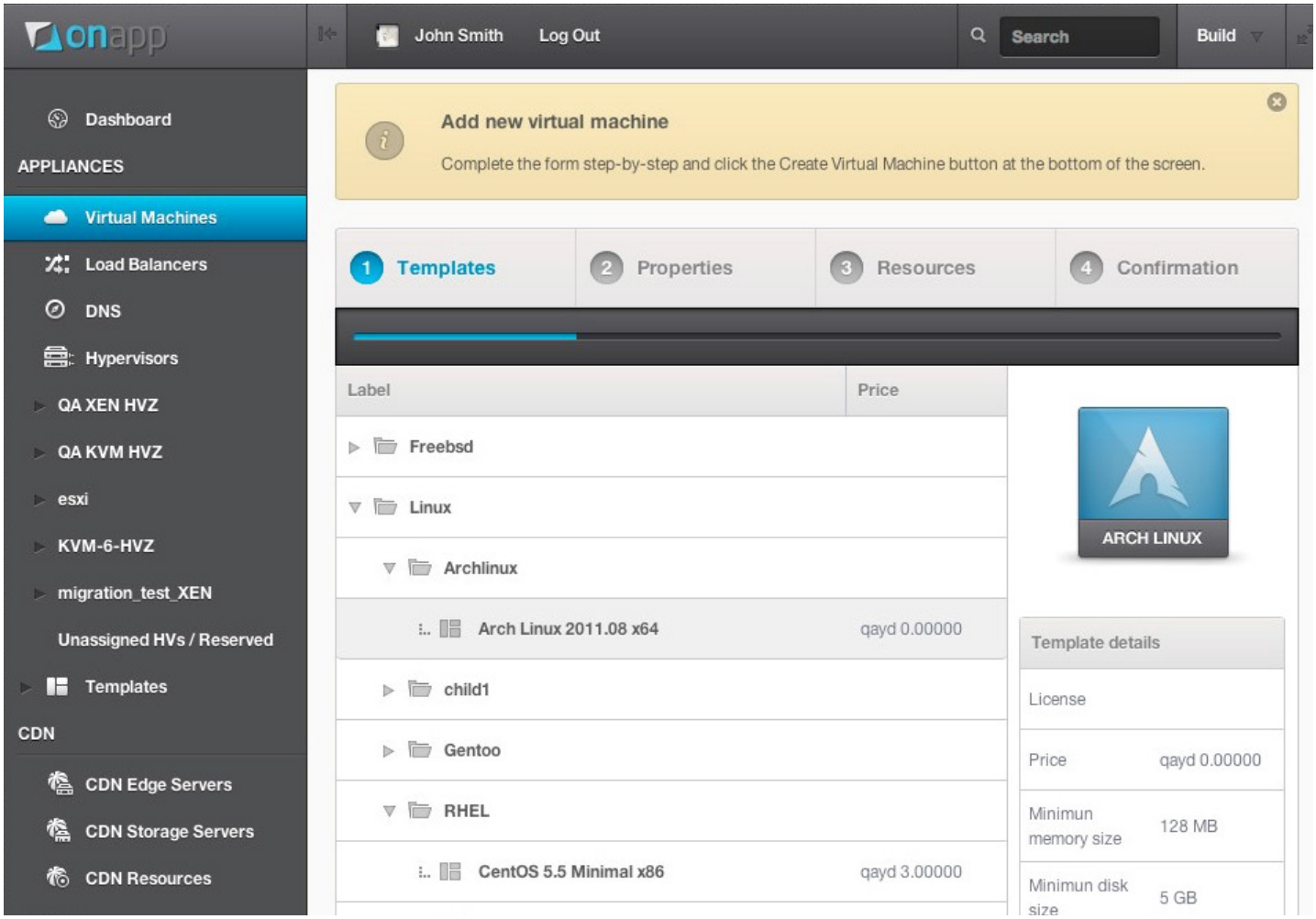
Automated customization

- Use Recipes to automate configuration and installation of apps, tools & frameworks, for virtual, smart and bare metal servers
- Use Blueprints in VMware clouds to deploy complete distributed apps with a click

Integrated SAN & flexible storage support

- Create tiered storage services with multiple SANs per cloud and multiple disks per virtual server
- Supports multiple storage strategies:
  - Create your own distributed SAN using local hypervisor disks (integrated storage)
  - Use traditional hardware or software SANs (any storage that presents a block device)
  - SolidFire integration for guaranteed IOPS





Customizable web control panel

- Enables customer self-provisioning – full GUI control of all server types
- Everything from the system architecture to virtual server root access is managed via the UI
- Integrated VM console (VNC/HTML5)
- Change language, currency, look & feel from the GUI
- Use 3rd party control panels via the OnApp API

iPhone/iPad & Android apps

- Comprehensive mobile cloud management, monitoring & provisioning
- Fully customizable with your own branding

User management

- Create any number of user roles for customers, resellers, VIPs, billing teams, support
- Control user access to every function with our granular permissions system
- Manage user billing plans, payments, suspensions & whitelists, plus custom fields

API & integrations

- RESTful JSON and xml API for all cloud management functionality
- Pre-built integrations with WHMCS, HostBill, Ubersmith, PBA, SolidFire, Bacula4Hosts...

Network management

- IP management for IP pools and billing
- IPv4/IPv6 support
- Advanced VLAN management
  - VMs access multiple VLANs through multiple virtual interfaces; assign private VLANs to customers
- Infiniband support

Availability/location/performance zones

- Group physical resources to create tiered services based on performance or location
- Create virtual private clouds and availability zones
- Each zone can be configured with its own pricing & limits

Integrated CDN

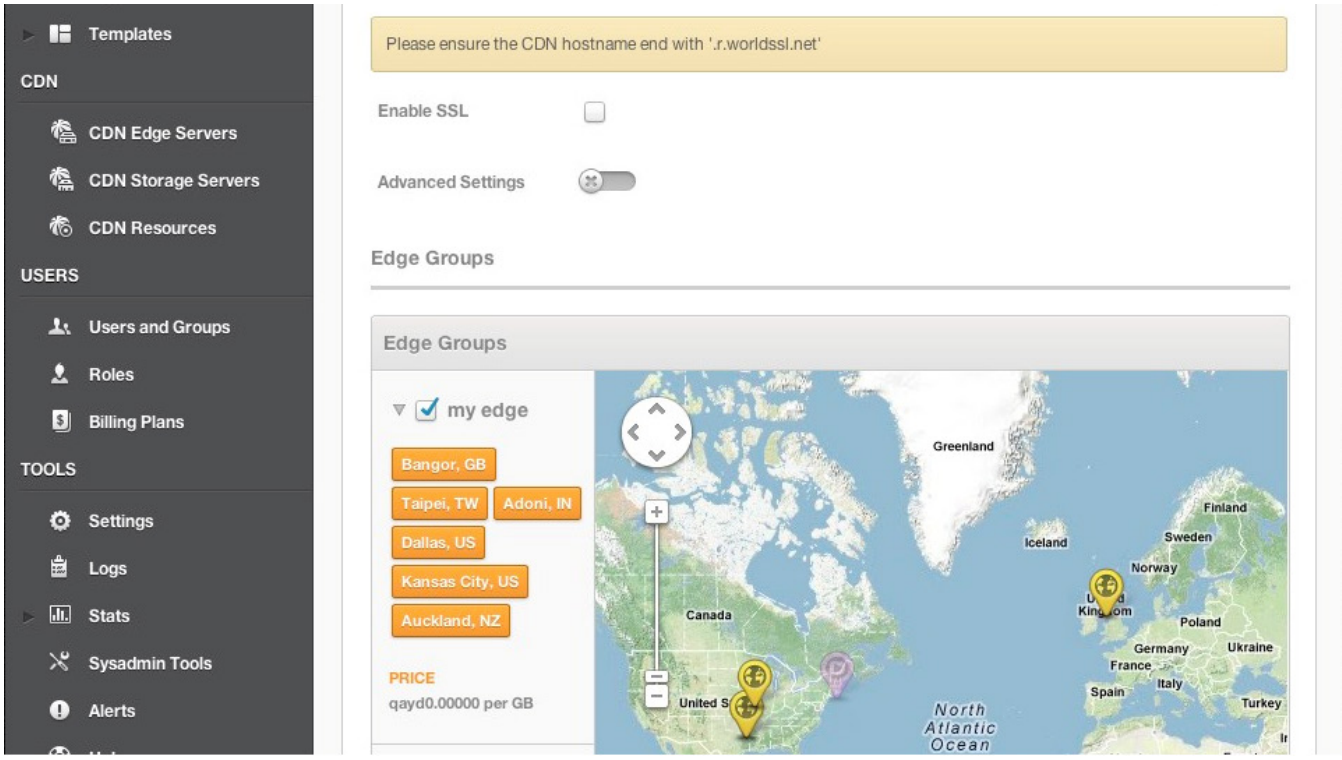
- Deploy edge servers in your cloud to create your own CDN PoP, or a complete private CDN
- Connect to the OnApp Federation to get global capacity for your clients on demand
- Supported protocols:
  - Video on Demand/Live streaming (Wowza)
  - HTTP Pull, HTTP Push

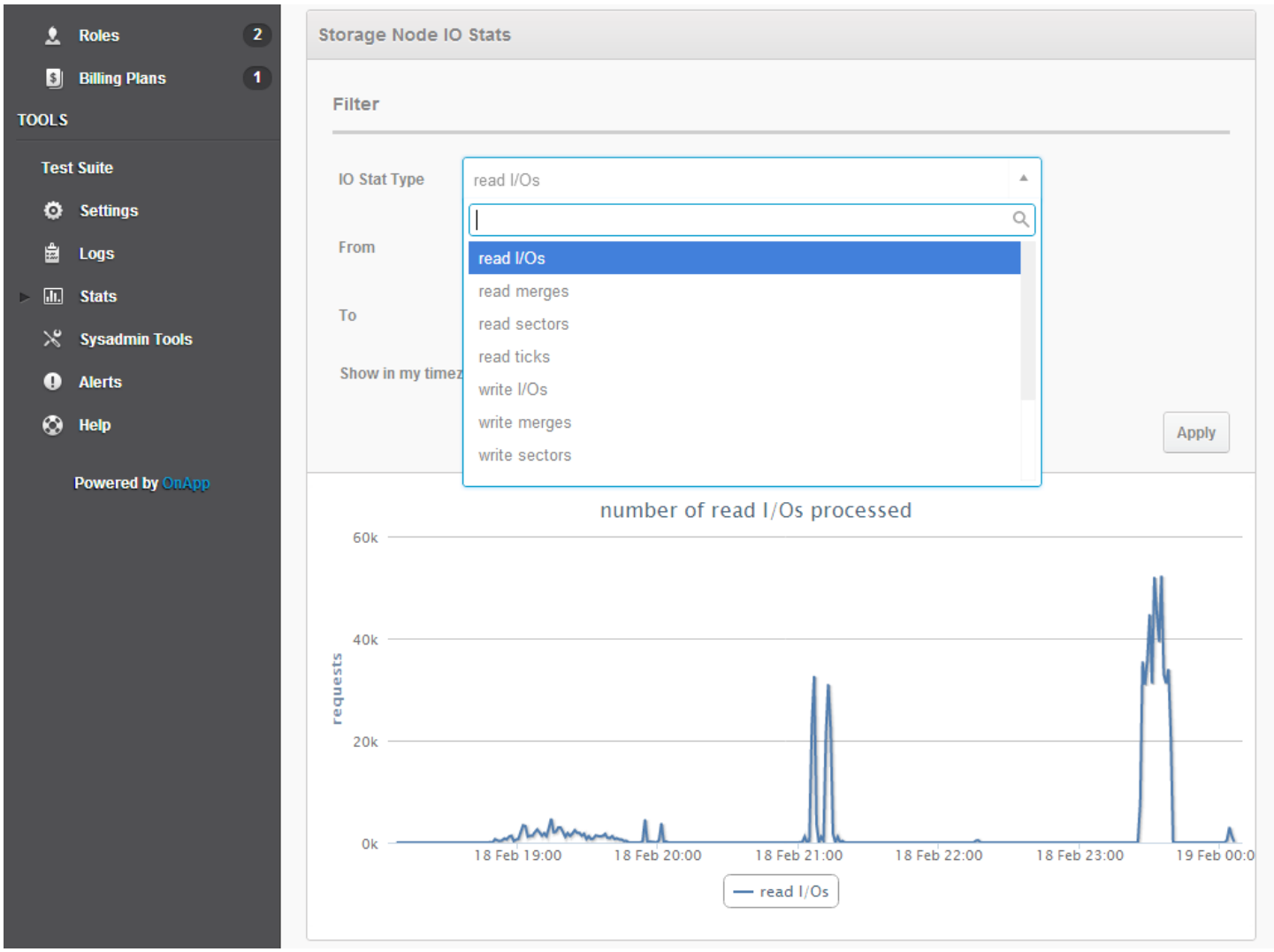
Integrated Anycast DNS

- Low-latency, highly resilient DNS service hosted at locations around the world
- Manage DNS for your own domains, and your customers' domains

Pricing & billing

- Use plan-based and/or utility billing
- Set prices and calculate bills for:
  - CPU cores, CPU priority, RAM
  - Primary & storage disks & backups
  - IP addresses & networks
  - IOPS & DNS
  - Templates, recipes & different server types
- Create and price different zones for dedicated & cloud servers, performance tiers & locations
- Overcommit support





Backup

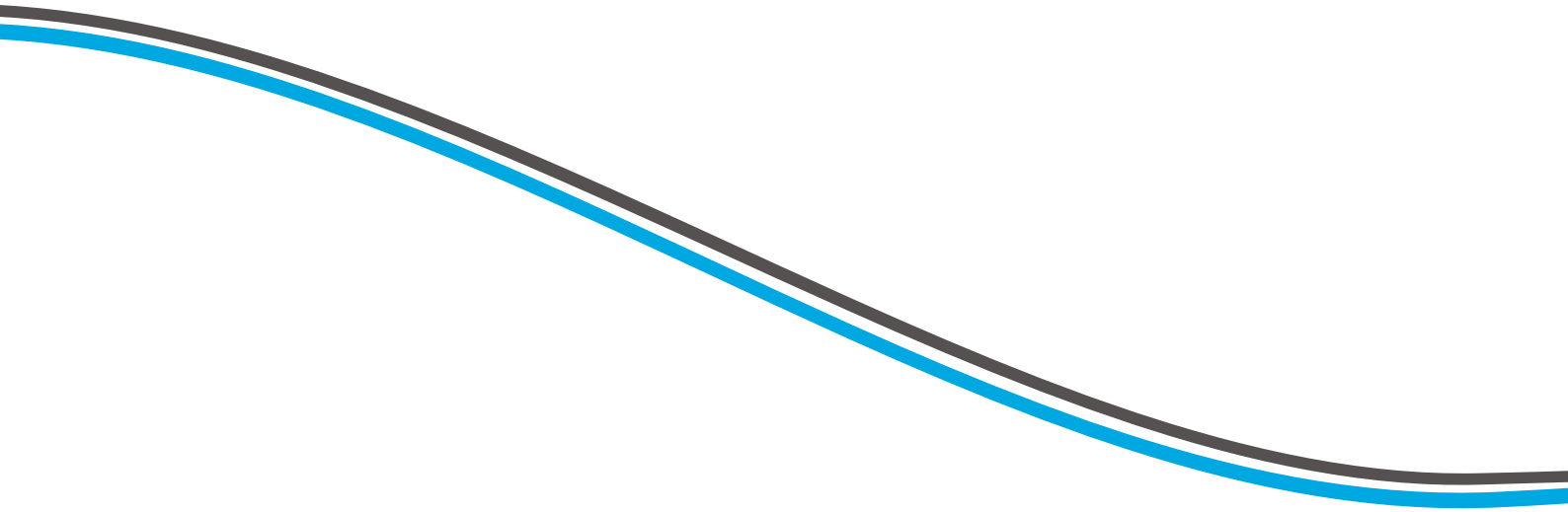
- Deploy multiple dedicated backup servers, or use your control panel server
- Backup on demand or via automated schedules
- Full-server snapshot backups
- Integrated incremental backup, plus extended incremental backup via Bacula4Hosts

High availability

- Cloud health monitoring & automatic failover
- If a server is non-responsive:
  - Cloud, VPS (with SAN) and smart server workloads are hot migrated, with cold migration options if hot migration is not available (depending on the OS)
  - Failover thresholds are customizable

Security

- Multi-layered security model featuring our Customer Isolation Module:
  - Enables secure VLAN sharing
  - Isolates VM data and traffic
  - Includes an anti-sniff, anti-spoof firewall
- Make full use of hypervisor firewall features
- Additional user-configurable firewalls
- Whitelists, password policies & other features



(UK) 0800 158 8600
(US) 866 234 3240
www.onapp.com
start@onapp.com

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