SOLUTION BRIEF

Private Cloud for DevOps

When your business depends on fast, agile software development, it can be a challenge to deliver the servers and storage your developers need. All too often, dev teams resort to using expensive public clouds, outside the governance of your IT and operations teams.

Agility and control

OnApp is a fast, efficient and affordable way to meet the needs of development and operations teams in your enterprise IT.

It's a complete software platform for deploying, managing and scaling private cloud infrastructure in your datacenter or server room. Using OnApp, you can create a flexible, fully automated DevOps environment - giving your teams the IT resources they need to perform, within a secure, fully governed framework.

Self-service private cloud

OnApp creates full self-service private cloud across one or more clusters or datacenters, and gives your IT team the tools to control resource allocation for any number of departments or user roles.

- Cloud orchestration
- Policy management
- Resource allocation
- User management
- Script management
- Template management
- Notification/ approvals
- Reporting/ alerts

OnApp provides fully virtualized/software-defined control of CPU, RAM, network and storage resources; a complete toolset for cloud orchestration, provisioning, VM management, containers integration, user management (RBAC), metering, billing, templates and governance. Everything is managed through a single UI.

OnApp can be installed on industry-standard Intel® x64 servers, and is also available as a ready-to-run private cloud appliance, using Intel® Datacenter Blocks hardware - available now from Intel® Technology Providers.

KEY BENEFITS

► **Reduce public cloud spend:** create your own flexible private cloud for development, testing and production workloads

► **Efficient cloud automation:** self-service provisioning makes your teams more agile, within centrally controlled policies

► **One management UI:** manage multiple clusters, zones and datacenters through a single pane of glass

► **Granular RBAC:** control exactly who can see, access and control IT resources, for any number of users or departments

► **Integrated DevOps tools:** automate application deployment, patching and config changes with Recipes

► **Containers integration:** manage Docker and Kubernetes just like VMs

► **No hypervisor tax:** OnApp's Xen/KVM-based virtualization is significantly more cost-effective than vSphere or Hyper-V

► **Software-defined storage:** included as standard - highly scalable, with multiple storage tiers and fully asymmetric storage/compute
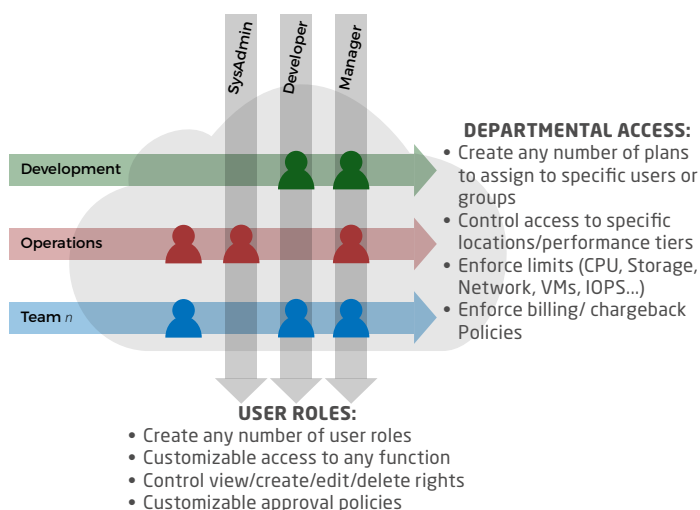
A complete private cloud solution for DevOps

OnApp creates a highly automated private cloud for dev, test and production workloads, offering secure self-service access to pre-configured virtual server instances, custom instances, VMs with pre-installed applications, container servers and bare metal servers.

End-to-end management

OnApp automates the end-to-end cloud management process, from hardware discovery and deployment, to cloud orchestration, provisioning, VM management, autoscaling, automatic failover, backups, workload customization and more.

Granular Role-Based Access Control

OnApp gives you fine-grained control of permissions and limits for any number of departments or users. For example, your developers might be allowed to spin up new VMs, deployed from existing templates, and customize workloads using pre-defined Recipes; while sysadmins are able to download new templates, create new Recipes, and manage updates and troubleshooting.

DEPARTMENTAL ACCESS:
- Create any number of plans to assign to specific users or groups
- Control access to specific locations/performance tiers
- Enforce limits (CPU, Storage, Network, VMs, IOPS...)
- Enforce billing/ chargeback Policies

USER ROLES:
- Create any number of user roles
- Customizable access to any function
- Control view/create/edit/delete rights
- Customizable approval policies
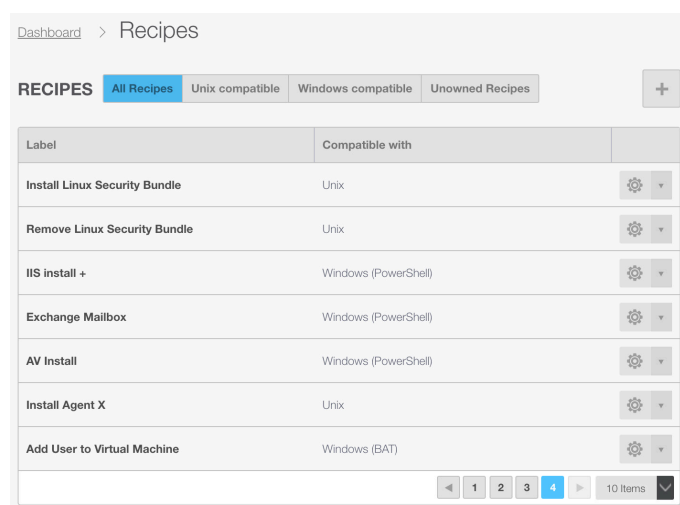
Governance and security

OnApp's extensive governance and security toolset includes a transaction notifications and approvals system - so you can require managers to approve requests for IT resources - and full password management, including the ability to enforce complexity settings.

Full RESTful API

OnApp includes a full RESTful API as standard, which encompasses everything that you can do through the OnApp UI.
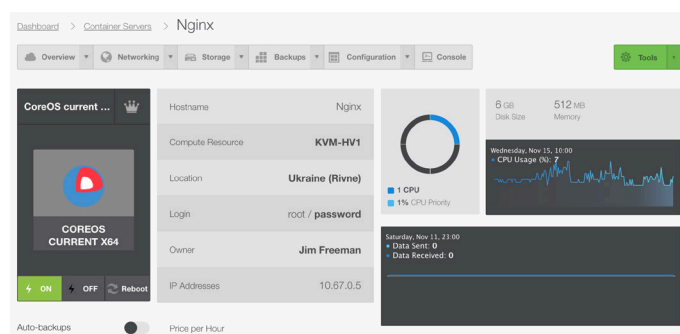
Workflow automation

OnApp includes a flexible scripting system called Recipes, which make it easy to automate deployments and any tasks you need to run within a virtual server. Recipes can be used to install applications, make configuration changes, run updates and more - either during provisioning or during runtime.

Dashboard > Recipes		

| RECIPES | All Recipes | Unix compatible | Windows compatible | Unowned Recipes | + |

Label	Compatible with	
Install Linux Security Bundle	Unix	⚙ ▾
Remove Linux Security Bundle	Unix	⚙ ▾
IIS install +	Windows (PowerShell)	⚙ ▾
Exchange Mailbox	Windows (PowerShell)	⚙ ▾
AV Install	Windows (PowerShell)	⚙ ▾
Install Agent X	Unix	⚙ ▾
Add User to Virtual Machine	Windows (BAT)	⚙ ▾

◀ 1 2 3 **4** ▶ 10 Items

Integrated container management

OnApp Container Servers share the same intuitive provisioning, management, failover and metering of standard OnApp virtual servers, but are based on a CoreOS template that provides the framework for Docker and Kubernetes deployment.

Dashboard > Container Servers > Nginx					
Overview	Networking	Storage	Backups	Configuration	Console	Tools

CoreOS current ...		
COREOS CURRENT X64	Hostname	Nginx
	Compute Resource	KVM-HV1
	Location	Ukraine (Rivne)
	Login	root / password
	Owner	Jim Freeman
ON OFF ⚡ Reboot	IP Addresses	10.67.0.5

6 GB Disk Size   512 MB Memory

1 CPU
1% CPU Priority

Wednesday, Nov 15, 10:00
• CPU Usage (%): 7

Saturday, Nov 11, 23:00
• Data Sent: 0
• Data Received: 0

Auto-backups   Price per Hour