

enSTRATUS

vmware

GOVERNANCE FOR THE CLOUD

Security - Reliability - Independence

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WHO WE ARE

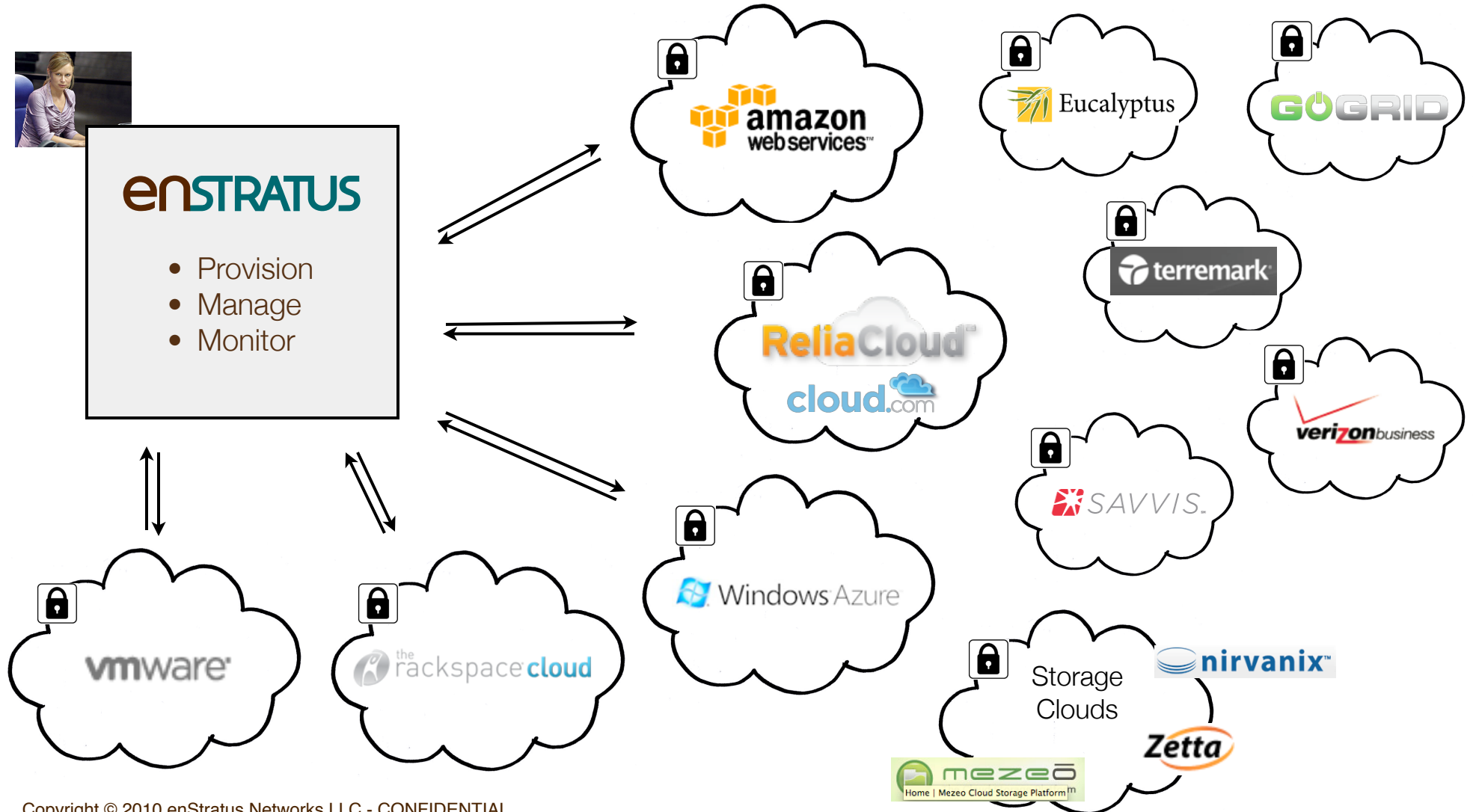


- Cloud Management Solution
 - Provide governance and risk management for enterprises in the cloud
- Our solution supports processes and controls for:
 - Security
 - Reliability
 - Independence

OUR SOLUTION

- Security and Compliance
 - Audit controls, financial controls
 - Encryption and key management for data control
 - User and process management for policy support
- Reliability
 - Custom SLA target definitions
 - Auto-recovery, auto-scaling
- Independence
 - Automated Backups and Cross-cloud DR

CLOUD INDEPENDENCE



VSPHERE AND CLOUD INFRASTRUCTURES

- Manage vSphere deployments with unified solution as your public or private clouds
- Supports vSphere and vCloud Express and leading cloud infrastructure platforms:



INITIAL PRIVATE CLOUD SETUP

- Define server configurations (e.g. 2 CPU + 4 GB RAM)
 - Customers can define any set of configurations they want their users to be able to provision on-demand
 - Different charge-back rates can be assigned to different configurations
- Setup a DHCP server for private IP assignment
- Create guest templates
 - Require VMware tools + enStratus agent
 - Supports any VMware supported guest OS
- Point enStratus at the vSphere API endpoint



SIMPLE USER INTERFACE

The screenshot displays the enSTRATUS user interface with the following components:

- Navigation:** Top menu includes CONSOLE, CLUSTER MANAGER, and CLOUD M. A secondary menu includes Users, Groups, and Roles.
- User List:** A table showing user details.

User ID	Last Name	First Name
p177	Bordson	Anne
p198	Cat	Tia
p178	Christopherson	Stepha
p202	Manning	John
p197	Roberts	Moniqu
p088	Reese	George
p199	Urlick	Apple
- Machine Images:** A list of machine images with columns for Platform and Name.

Platform	Name
Windows	ami-6bc12002
Linux	ami-e56e8f8c
Linux	debian-5.0-lenny-deskt
Linux	enstratus6-centos52x3
Linux	enstratus6-centos52x6
Linux	hardened_2008.11_32
Linux	Server2003r2-x86_64-V
Linux	ubuntu-karmic-daily-13
- Cluster Management:** A section for selecting a cluster (Demo) and creating a new one.

Name	ID	Type	Est. Avail.	Deployment Date
Demo	I-000-722	DEDICATED	99.9281%	Not Deployed
- Server Groups:** A table listing server groups with columns for Name, ID, Min Servers, Max Servers, # Volumes, RAID Level, Volume Size, Encrypted, and actions.

Name	ID	Min Servers	Max Servers	# Volumes	RAID Level	Volume Size	Encrypted	actions
Demo-MySQL	g-000-987	1	1	1	NONE	10	false	actions
Demo-stuff	g-000-976	1	1	0	NONE	0	false	actions
Demo-Valtira	g-000-986	1	1	1	NONE	10	false	actions

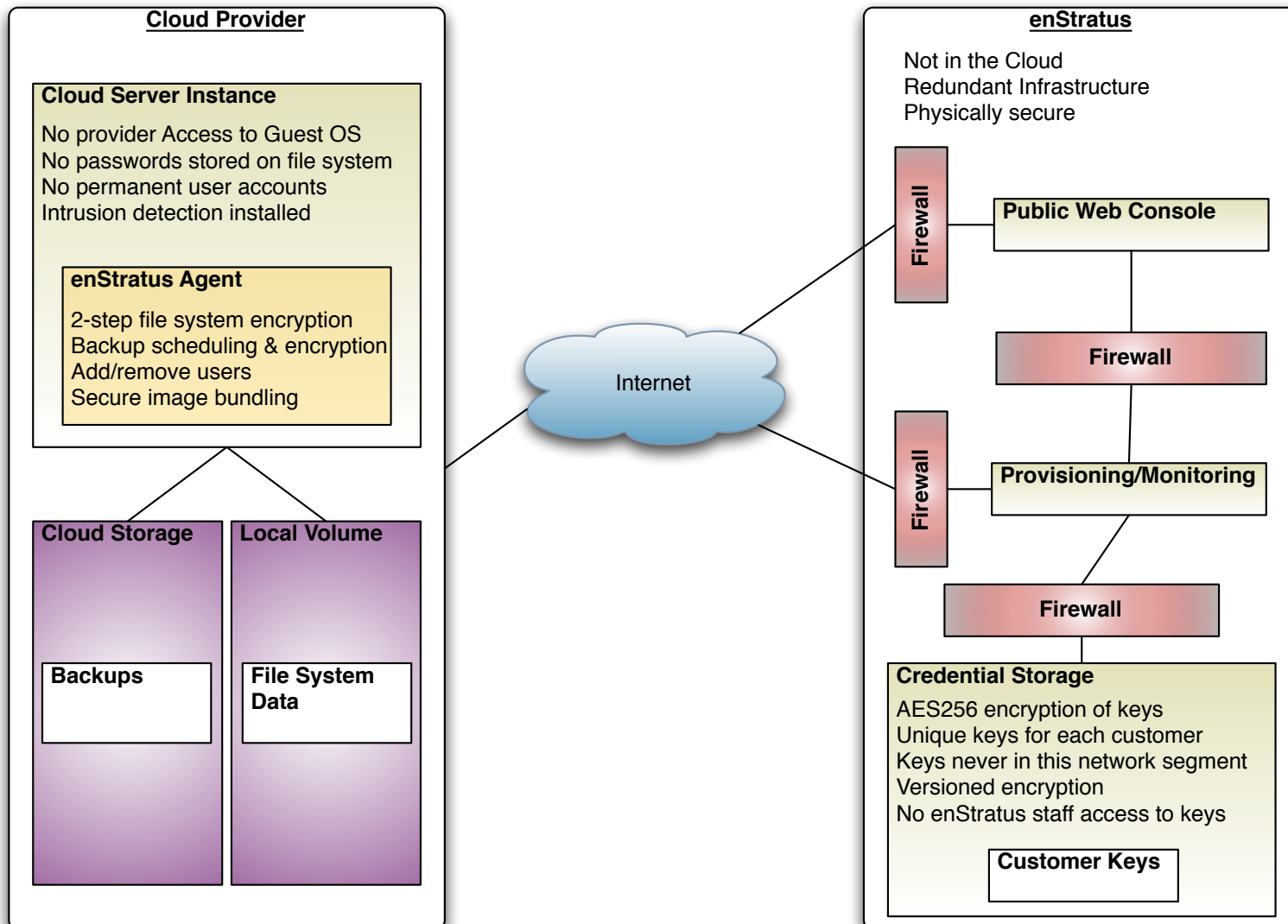
VSPHERE FEATURES AVAILABLE TODAY

- Provisioning/de-provisioning of VMs
- Creating custom templates
- Budgeting and chargebacks
- User management (LDAP, AD, custom roles, SAML)
- Auto-scaling, auto-recovery, backups
- Monitoring and alerting with Microsoft System Center integration
- Automated DR into any public cloud
- Multi-tenancy

VSPHERE FEATURES AVAILABLE JULY 2010

- Automated bursting from vSphere into public clouds
- Ability to span functions across private and public clouds
 - For example, ecommerce in private, rest of site in public
- Support for configurable virtual disks
- Configurable public IP address routing
- Integration with F5 hardware load balancers
 - Will enable support for “cloud” load balancers ala GoGrid
 - Potentially support other load balancers as well

PATENT-PENDING SECURITY ARCHITECTURE



QUESTIONS?

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