Summary

- Current Scenario
- What is Viapps?
- What does Viapps allow you to do?
- Viapps architecture
- Viapps components
- Viapps network services catalog
- Screenshots
- Viapps professional services
Viapps solution

- Another Opensource initiative of AGS Group in Dec 2011
- 2 year+ of active development
- Enterprise Virtual Appliance Factory solution
- Enterprise support services
Current Scenario

- The number of services in data centers is increasing
- Virtualization infrastructure in data centers is very high
- The degree of implementation of “Cloud Automation” solutions in enterprise is still low
- The need to optimize time and money in the process of installation, configuration, maintenance and service management in data centers is very high
- All companies use basic network infrastructure services like Firewalls, DNS/DHCP/NTP servers, mail Relays, IP Load Balance, proxys Web,...
What is Viapps?

- It is an automation live cycle solution of infrastructure services on cloud environments
- It allows to create, install, configure, update, manage, monitor and audit network infrastructure services like Firewalls, DNS/DHCP/NTP Servers, HTTP Proxy, SMTP Gateways and IP LoadBalance
- Based on opensource components Chef Server and our own development
- It can be deployed on any cloud/virtualization environment, private Clouds, public Clouds or hybrid Clouds
- Extensible, new functionalities and services can be incorporated through new module development
- It is based on a RESTful API, allowing it to be integrated with third party platforms
What does Viapps allow you to do

- Fast and easy deployment of infrastructure services
- Global deployment and local management. It allows to delegate management to local administrators
- Virtual Appliance Full life cycle support
- Configuration and security management of network services
- Maximizing the benefits of the cloud in a corporation
- Improving the productivity of system and network administrators
- Very easy deployment of opensource infrastructure services very easy, allowing corporates to save time and money in resources and licenses
Viapps general overview

Corporate CMDB
Hyperadvisor Manager

Viapps general overview

Backup vAPP
Create VM
Notify New VM
Install vAPP
Admin vApps
Create vApps
Update vApps
Audit vApps

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Viapps solution

customer cloud infrastructure

VMWARE  XEN  KVM  Hyper-V
Main components of Viapps

Central Management Interface (CMI)

Service Nodes (CMIX)

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Viapps solution. Full Life Cycle support

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Full life cycle support

- **Install**: The supply process begins from the CMI, and it relies on Chef Server to send all required recipes to VM in order to install the firewall server.

- **Basic Configuration**: The configuration needed to start working. This is executed by Chef Server with data provided by CMI.

- **Advanced Configuration**: Applying rules by default, applying security policies, providing interfaces, paths,... It will all will be execute from CMI.
Full life cycle support

- **Update**: Applying every kind of updating to the software base, OS as well as Applications like shorewall and others..... Recipes will be sent from Chef Server. Private RPM repository will be used.

- **Administration**: OS as well as Firewall Service configuration management. Creation of rules, objects, attributes, etc...

- **Monitoring**: Platform and Service Monitoring, performance trending, updating status, etc...

- **Audit**: Logs concentration of the different nodes, validating configuration, access, etc...
Flavors catalog available today

- **Managed Firewall**: Statefull Firewall based on iptables and shorewall. With central management interface, including objects and rules shared by any firewall node.

- **HTTP Proxy**: HTTP Proxy Server based on Squid software. It is ready to act as reverse proxy to accelerate content or direct proxy to allow internet access to an internal network.

- **SMTP Gateway**: Mail Relay Server based on Postfix software

- **IP Load Balance**: IP Load Balance service based on Linux Virtual Server (IPVS), support for TCP/UDP protocol,...

- **DNS/DHCP/NTP Server**: DNS/DHCP/NTP Server based on bind and isc dhcp software. It is ready to support from simple architectures to complex ones with multiple nodes.

- [more to come...]
Viapps Releases

- GNU v2 license
- Open roadmap
- Community driven
- Support services availables

Community Edition

Enterprise Edition

Certified stack
- Long term support
- Enterprise ready
- Advance features like, cluster support, ...

SaaS Edition

- Instant access to viapps functionality
- Pay per use
- All the advantages of Enterprise Edition

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CMI Screenshots

Management of deployed VAPPs
CMI Screenshots

New VAPPs Installation Wizard

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CMI Screenshots

Backup management of deployed VAPPs
Performance monitor of a VAPPs
CMI Screenshots

Performance monitor of a VAPPs

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Log viewer of a VAPPs
CMI XPRESS – DNS/DHCP/NTP Screenshots

DNS/DHCP/NTP VAPPs configuration Wizard

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VAPP Dashboard with status and summary information
CMI XPRESS – DNS/DHCP/NTP Screenshots

Manage DNS SOA information
CMI XPRESS – DNS/DHCP/NTP Screenshots

Add a new DNS entry
Add a new DHCP range

<table>
<thead>
<tr>
<th>Index</th>
<th>Net</th>
<th>Netmask</th>
<th>Range start</th>
<th>Range end</th>
<th>Gateway</th>
<th>DNS Servers</th>
<th>Description</th>
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<tbody>
<tr>
<td>0</td>
<td>192.168.104.0</td>
<td>255.255.255.0</td>
<td>192.168.104.1</td>
<td>192.168.104.254</td>
<td>192.168.104.1</td>
<td>10.10.10.1</td>
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</table>

Add new DHCP range
CMI XPRESS – Firewall Screenshots

Firewall Dashboard

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CMI XPRESS – Firewall Screenshots

Firewall Zones management
### Firewall Interfaces Management

<table>
<thead>
<tr>
<th>Interface Identifier</th>
<th>Interface Identifier</th>
<th>Options</th>
<th>Comment</th>
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<tr>
<td>lo</td>
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<td></td>
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<tr>
<td>eth2</td>
<td>INET</td>
<td></td>
<td></td>
</tr>
<tr>
<td>eth1</td>
<td>DMZ</td>
<td>dhcp, routeliter</td>
<td></td>
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<tr>
<td>eth0</td>
<td>TRUST</td>
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<td>options</td>
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# Firewall Policies management

<table>
<thead>
<tr>
<th>Source Identifier</th>
<th>Source Identifier</th>
<th>Policy</th>
<th>Log Level</th>
<th>Traffic limit</th>
<th>Traffic burst</th>
<th>Comment</th>
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<tbody>
<tr>
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<td>3</td>
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### Firewall Rules management

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<th>Destination</th>
<th>Protocol</th>
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<th>Source Port</th>
<th>Original Destination</th>
<th>Rate Limit</th>
<th>Comment</th>
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<td>DMZ</td>
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<td>webmail</td>
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<td>DMZ mail01dmz</td>
<td>tcp</td>
<td>ssn</td>
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<td>tcp</td>
<td>ssn</td>
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<td></td>
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</tr>
</tbody>
</table>
CMI XPRESS – Firewall Screenshots

Firewall Add Rules with objects from CMDB
Firewall Masquerading and NAT management
Viapps Professional Services

- **Cloud Automation Consultancy**
  - Setup an architecture and a methodology that better fits your customer needs, trying to maximize benefits of cloud technologies.
  - Offers a full suite of professional services and training to help your organization get on the road to success with Viapps solution. Our expertise in deploying complex enterprise infrastructure can help your team build strong skills and positions you to independently succeed long term.

- **Installation**
  - Setup Viapps in the customer site with services like installation, configuration, customization or optimization the solution to meet your needs

- **Support service levels**
  - Depending of the criticity of the service, there are different types of support services, like email, 8x5 or 24x7

- **Viapps development**
  - Develop specific functionalities that our customer is interested, like integration with 3rd party platforms, add new services or flavors to the solution catalog,...

- **Training and Skill Development**
  - Our experts can train your team with an on-site Viapps Fundamentals class.
more info about Viapps

http://viapps.org
http://youtube.com/viapps
https://redmine.viapps.org
@viapps