

Case Study: Televolve



Using Vyatta on Blade Servers for VOIP Services to Deliver Fault Tolerance and BGP Route Optimization

Televolve is a VoIP services provider offering full-featured hosted PBX solutions via its Televolve Virtual PBX Service.

TelEvolve Cloud Services

Challenge

Find scalable BGP router plus economical enterprise edge routing and security solution

Solution

Vyatta Open Networking Software

Benefits

Highly scalable
Fault Tolerant
Cost-Effective
Responsive support

Challenge

Being in the hosted solutions or SaaS (Software as a Service) business, required that Televolve build an infrastructure that is secure, flexible, scales affordably and can be easily managed to minimize administration and downtime. Since BGP is a critical factor in the functionality of the service, Televolve required a routing solution that was able to handle multiple full BGP tables without impacting system performance.

Offering mission-critical business services such as voice also requires fault tolerance, fault detection and remote management capabilities to maximize performance and uptime. The limitations of common proprietary router platforms would have required Televolve to purchase multiple high-end hardware-based systems, expensive memory upgrades and proprietary management software to meet their requirements for routing table capacity and fault tolerance.

"The product itself is fast, stable, reliable, and easy to work with. In my 26 years working in IT, I have never received this level of support from any company at any price, much less the low price charged by Vyatta."

Televolve Network Requirements		
Features	Cisco 7200	Vyatta
Firewall	✓	✓
BGP	✓	✓
BGP Scalability	1GB Max Memory	Limited only by hardware
Fault tolerance	Requires Multiple Units	✓
Remote Management	Requires Proprietary Cisco tools	Using third party software
Standard Hardware	No	✓

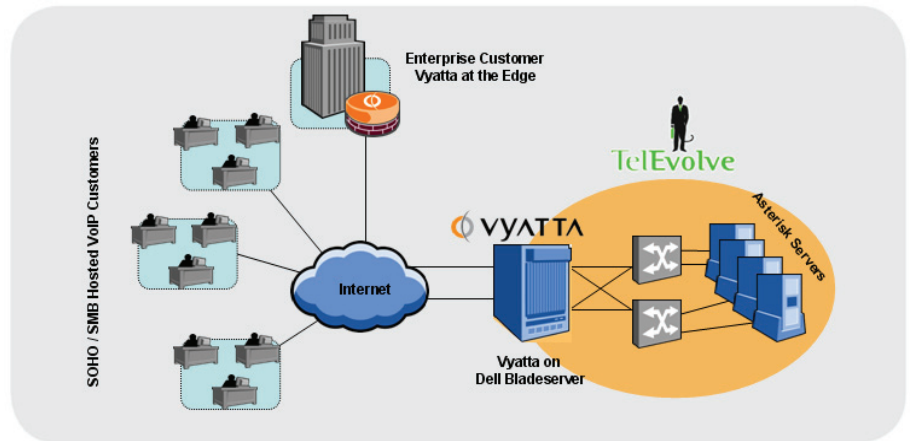
Solution

After researching alternatives, Televolve chose to purchase a Vyatta Enterprise subscription for the guaranteed stable code and access to telephone support. For redundancy and management, their Vyatta system is built using a Dell 1855 blade server with dual-core 64-bit Intel Xeon processors. The Vyatta solution was able to deliver all of the technical requirements for building Televolve's network and offered the BGP scalability, packet process-



Case Study: Televolve

“Vyatta has proven that I can count on instant support responses even to low-priority requests, and the techs are knowledgeable and friendly. I can trust my enterprise to Vyatta, and do, since that’s our edge and core routing device.”



ing performance and fault tolerance required to ensure future needs could be met by the same open software appliance and hardware combination.

Vyatta’s open architecture and ability to leverage standard x86 hardware meant that Vyatta router/firewall/VPN solutions was not subject to the limitations of proprietary solutions. The Vyatta solution combined with the Dell blade server was able to address the protocols, connectivity, security and performance needs of Televolve at less than half the price of a comparable router from Cisco. In addition, the Vyatta solution will scale to meet future performance and interface requirements, giving Televolve room to grow.

Mission critical edge routing requires a knowledgeable and responsive technical support team and Televolve got just that. “Vyatta has proven that I can count on instant support responses even to low-priority requests, and the techs are knowledgeable and friendly. I can trust my enterprise to Vyatta, and do, since that’s our edge and core routing device.” says Alvarez,, “In my 26 years working in IT, I have never received this level of support from any company at any price, much less the low price charged by Vyatta.

About Vyatta

Vyatta has reintroduced innovation to the networking industry by leveraging open source technologies and the performance increases of x86-based processors. This innovation has allowed Vyatta to create routing and security appliances that

scale from the branch office to the service provider edge, use standard x86-based Intel/AMD hardware and components, run in VMWare, Xen and Hyper-V virtual environments and allow users to customize networks. Oh, and all of that can be done for a fraction of the cost of proprietary systems. For more info, visit <http://www.vyatta.com>