

1 Solution

The Vigilant Cloud Front service obfuscates and organization core infrastructure by deploying a proxy service for any application thru public and hybrid-cloud formations. Most proxy services are dedicated to high volume CDN that have significant upfront commitments and limited control over geographic presence advertising.

The Vigilant cloud front service uses a combination of remote cloud and local cloud custom network appliances to advertise geographic information based on real and virtual presence.

2 Technical information

GeoIP (Geographic IP) advertising allows an organization IP address to be associated with a local Geographic region typically down to the city level. Routing lookups allow the true location to be identified by upstream routers. Through various proprietary routing technologies and software defined networks, a server in LA can appear to access systems from New York, or South America. Depending on the level of investment, the location of the advertised IP can be published to the desired city, or the IP can be advertised and routed (either thru physical L3 hops or completely Virtual hops)

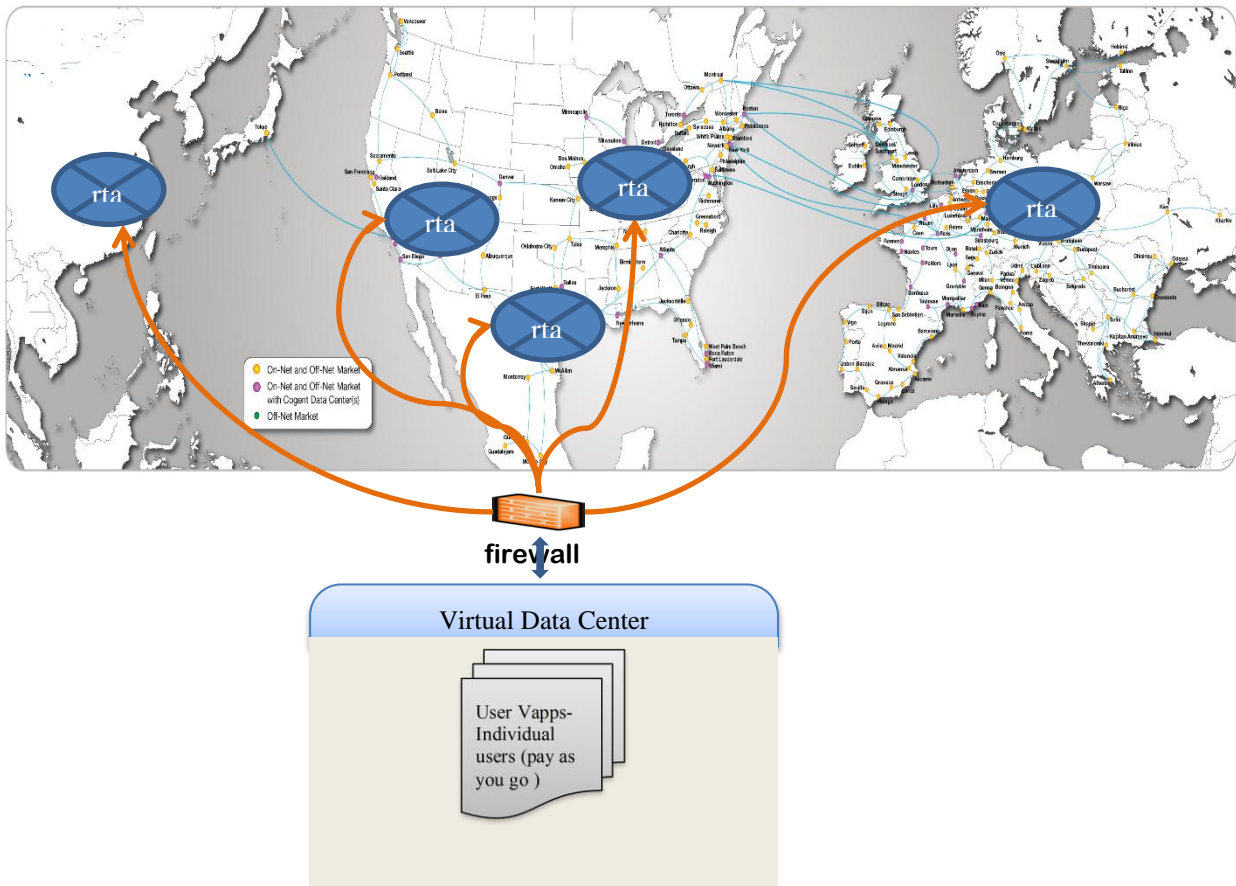
The table below outlines typical cost of the GeoIP publishing

Table 1 Projected cost savings

Activity	Projected Cost	Notes
GeoIP IP advertising	\$50/mth/IP plus bandwidth cost	General region and real location can be discovered thru route lookups. No real DDOS, obfuscation or GeoIP validation
Software based GeoIP routing	\$1500/mth,	GeoIP location and software generated L3 GeoIP routing. Complex route management. DDOS protection on all hops
GeoIP IP advertising and IP proxy	\$200/mth/IP plus bandwidth cost	Layer 3 route lookups show general region (desired remote city/country) or closest hop). Limited DDOS, Good obfuscation
Geo Locate Workloads	\$400-\$800/month/location	Complex replication management and tunnel arrangement.

3 Architecture.

Software defined Networking devices (Virtual routers (RTR's) proxy traffic at various locations and inherit physical routes. This strategy simplifies management and allow rapid movement/relocation of resources and most authentic GeoIP location validation with the least amount of infrastructure management and enables core resource locations to be placed in best cost, central locations.



Notes;

1. RTA can be quick relocated to other regions/IP blocks
2. Centralized routing controlled from core Firewall
3. Can be linked to Hybrid Cloud formations

4 Cost and Milestones

Major activities/milestones

Table 2 Schedule overview and cost

Activity	Schedule	Notes	Cost (\$)
Build array	TBD	Array setup	\$1500
VDC 12-24GB VRAM, 8 GHz VCPU/500gig storage	1 day	Can scale to multiple sites. Initial build support 5-10VM's, OS licensing not included	\$500/mth, \$500 setup
RTA array endpoints	1-2 weeks	4mbps bandwidth burstable to 100mbps	\$200/mth/location
Training	TBD	VDC usage Cloud Front routing	
Support	TBD	24 hr SLA Online Chat Lower SLA available Engineering support options available	
Solution total			\$1000-2000 setup \$500-1100 MRC(monthly)
Estimated cost savings		Self-implemented solutions	\$10-20K annually

5 Training and Support

Online training and engineering training options will be needed to fully leverage the SDN and VDC technologies.

Engineering support in the following areas are available

- GeolP support and updates
- Traffic monitoring and management
- Resource utilization
- Alert management
- Application and network troubleshooting

About Vigilant

Vigilant Technologies

Vigilant Technologies provides information technology services by providing a unique mixture of software engineering, solution integration and infrastructure management.

Vigilant Technologies is a veteran owned company headquartered in Chandler, Arizona. Vigilant owns, operates and manages physical and Virtual Datacenter space throughout the United States and globally thru its partners. Vigilant Technologies offers its customers over 10 years of superior, cutting edge IT consultation, virtualization, design, implementation, and ongoing infrastructure management using **Agile Based technology management** practices and ITIL based methodologies.

Portfolio; <http://www.vigilant1.com/Portfolio.aspx>

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At a Glance

- **Founded:** 2004 IaaS/SCON provider
- **NAICS 518210, 238210, 511210, 541542, etc..**
- **FedRAMP Unique Identifier:** F1311052558
- **Certifications:** FedRAMP (in process), SDVOB, GSA schedule 70.
- **Core Skills:**
 - Cloud Engineering, Cloud Service Provider & Broker
 - Technology Assessment and optimization, FISMA, FedRAMP
 - Patent pending ESB base workspace and Cybersecurity tool
 - Business Continuity
 - Configuration/Change management