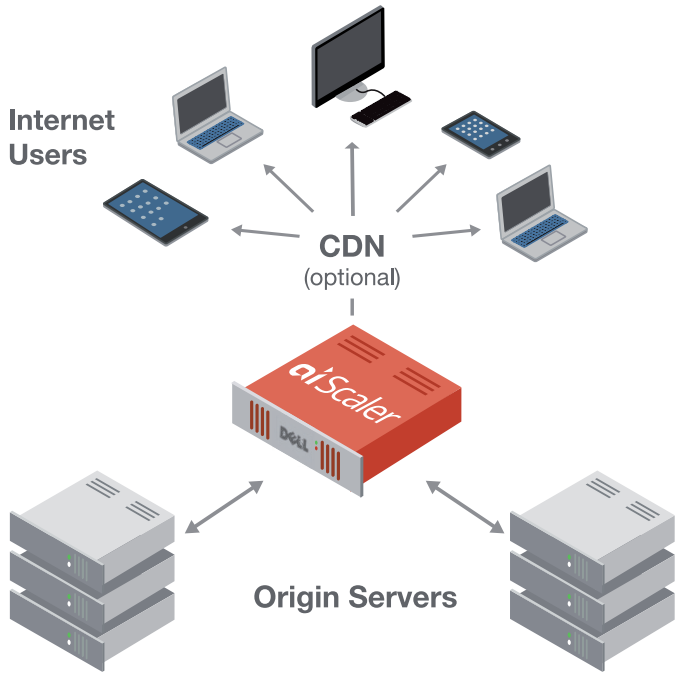
Speed, Scale & Security

Application Delivery Controller

Scenario 1:



Speed, Scale & Security

DDoS protection	Front-End Optimization (FEO)
L4-L7 Load balancer	Dynamic Site Acceleration (DSA)
SSL offloading	Mobile content management
Serving geocontent	Video streaming acceleration
(HTTPS) Web cache	Server Health monitoring

What is aiScaler?

aiScaler is a full spectrum application delivery controller (ADC), increasing the amount of the traffic your origin servers can handle by 10 to 15 times. A number of websites in the Alexa top 1000, already use aiScaler to manage their high-traffic websites, reduce page loading times, decrease hosting footprint and increase overall stability.

"It (aiScaler) doesn't necessarily compete with CDNs, it is rather complementary instead. Nor does it completely displace webservers / containers - you'll still have your Apaches and IIS and Tomcats. But it does allow you to dramatically reduce the hosting footprint - I expect we shall slash ours by 50%+, "-R. Karimov, Director Infrastructure at CNBC.

Why aiScaler?

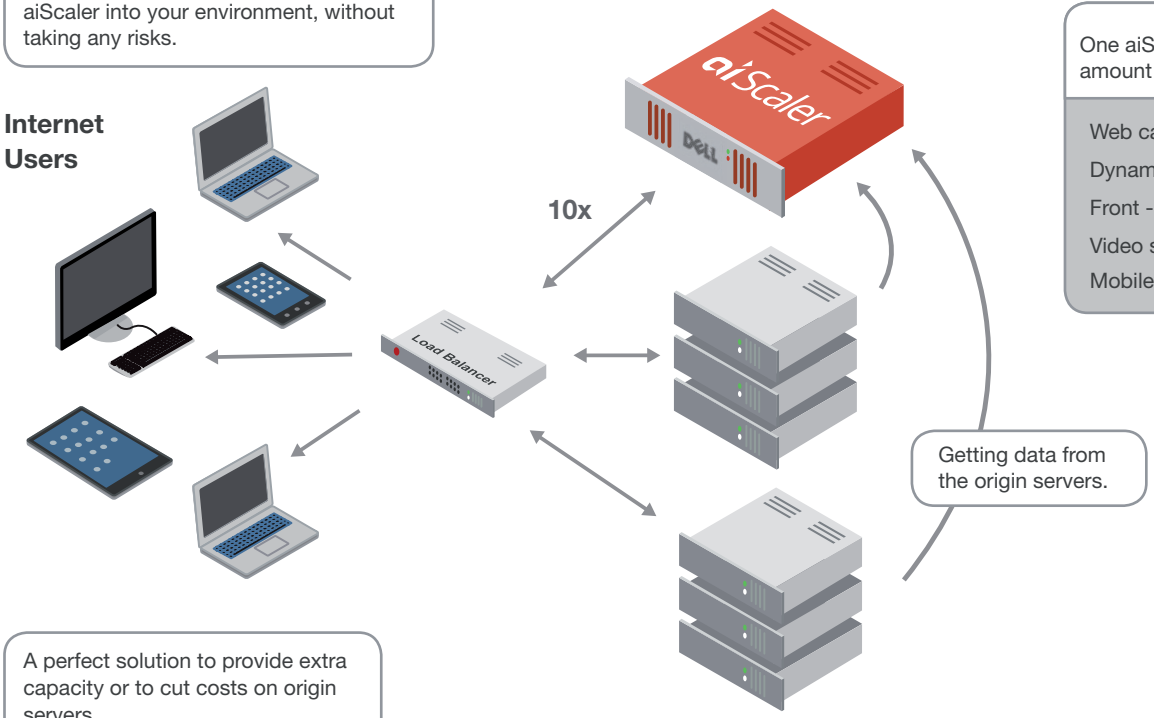
- Scale. Increase the traffic your origin servers can handle by 10-15x without changing code.
- Improve performance. Amazon found that a 100 millisecond delay caused a 1% drop in revenue.
- Increase SEO ranking. Google's new SEO rules penalize slow-performing sites.
- Prevent downtime. Utilize DDoS mitigation, intelligent load-balancing and health monitoring of origin servers.
- Front-End management. Advanced CLI, web and SNMP interface for monitoring and remediation.
- Mobile content management: aiScaler can identify, group and redirect mobile devices and serve the appropriate content to each device.

REDAPT + aiScaler

Scenario 2:

Deploy aiScaler behind your existing load balancer: for scaling and speed.

This allows you to slowly integrate aiScaler into your environment, without taking any risks.



One aiScaler machine serves the same amount of RPS as 10-15 origin servers.

- Web cache
- Dynamic site Acceleration (DSA)
- Front -End Optimization (FEO)
- Video streaming acceleration
- Mobile content acceleration

Getting data from the origin servers.

A perfect solution to provide extra capacity or to cut costs on origin servers.

Features

	Dell PowerEdge R620
CPU	Dual Intel Xeon E5-2609v2 2.5GHz (2x 4 cores)
Memory	32GB
Network ports (included)	4x 1Gb Ethernet (Intel I350 QuadPort)
Network ports (sold seperately; 3 cards max.)	16x Gigabit (1000BASE - T): Intel I350 QuadPort for a max. of 16 ports. 6x 10 Gigabit (10GBASE - T): Intel X540 DualPort and/or Broadcom 57810 for a max. of 6 ports. 6x 10 Gigabit (DA/SFP+): Intel X520 DualPort 10Gb DA/SFP+ for a max. of 6 ports.
Hard Drive	2x 250GB Hot-plug HDD. Configured in RAID1 for redundancy.
Power Supply	Dual, Hot-plug, Redundant Power Supply (1+1), 495W.

Ready for the cloud

- aiScaler servers can communicate with each other and update cache simultaneously, ensuring a uniform experience for users worldwide. This allows for high availability and horizontal scalability, allowing aiScaler to perfectly integrate in any cloud environment.
- aiScaler has the ability to run in virtual environments, making it possible to launch instances on public cloud providers, to (temporarily) expand capacity, in case of unforeseen growth.
- When facing very large DDoS attacks, the only remedy is providing more bandwidth than the attacker. If your data-center cannot provide sufficient bandwidth, you can temporarily launch aiScaler on public clouds like AWS and the HP Cloud, creating a hybrid cloud. The public cloud instances are peer-aware of your private environment and can use the same configuration file. This allows you to expand capacity within minutes, using the virtually unlimited public cloud resources, for maximum protection.

About Redapt

Redapt is a full service systems integrator that delivers innovative data center infrastructure and cloud solutions tailored to meet your business goals. Whether start-up or Fortune 500, Redapt can help decrease cost and increase the value of your IT. Rely on Redapt and keep your technical talent focused on your business.

Why Redapt?

- Competitive pricing
- Dedicated customer support
- Experienced staff you'll actually enjoy working alongside