

4 REASONS

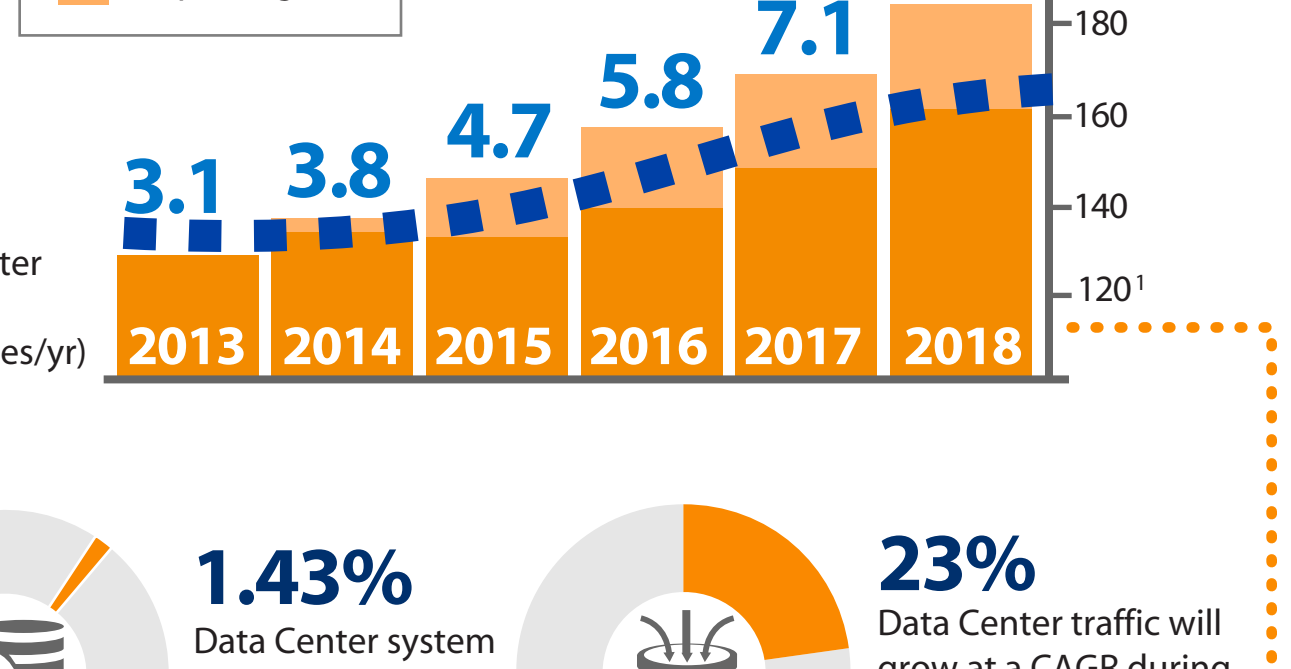
you need a

HIGH PERFORMANCE ADC



1

BANDWIDTH GROWTH IS OUTPACING BUDGETS



Data Center IP Traffic (Zettabytes/yr)

■ Budget
■ Bandwidth
■ Surpassing area

Data Center Systems Spending (\$B)

1.43% Data Center system spending CAGR from 2013-2018²

23% Data Center traffic will grow at a CAGR during 2013-2018¹

in 2018

There will be

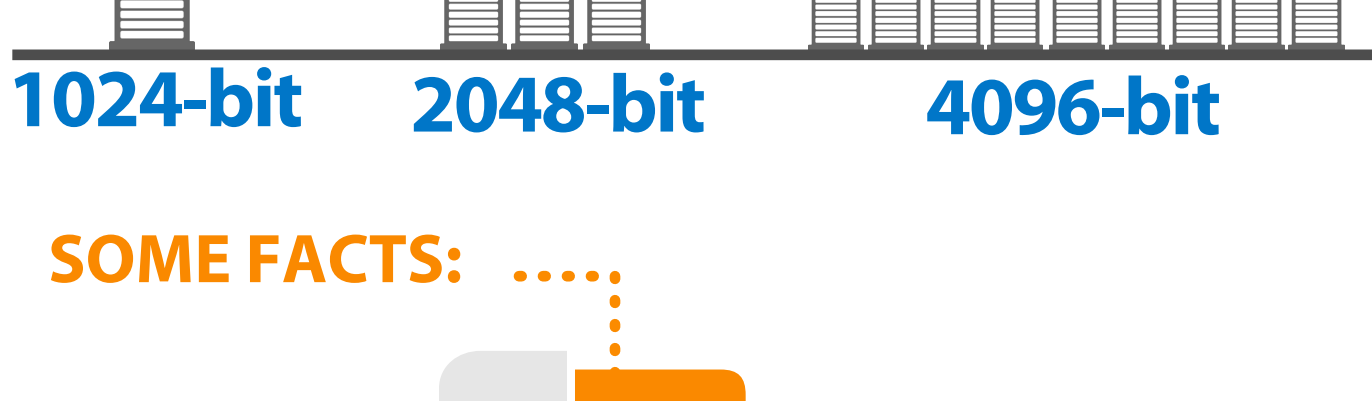
8.6
Zettabytes

per year of Data Center traffic on average¹

2

SSL REQUIREMENTS ARE SKYROCKETING

Number of standard servers required to handle 1,000 SSL CPS



SOME FACTS:

25% - 35% of Internet traffic is encrypted with SSL³

4096-bit SSL key use is growing, accounting for 20% of certificates issued according one CA⁴

48% more of the most popular websites use SSL as of January 2014 than a year earlier⁵

Upgrading 1024-bit to 2048-bit SSL keys can degrade performance⁵ 3x to 7x

3

MORE DEVICES = MORE CONNECTIONS WITH ALWAYS-ON ACCESS

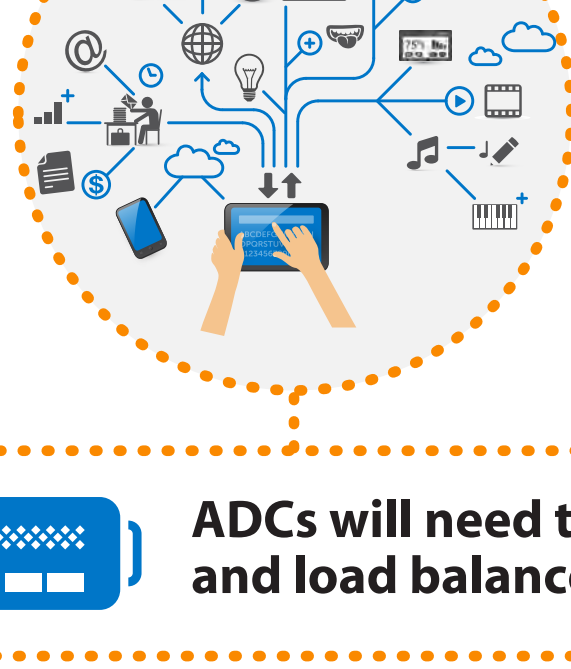
Internet usage is driven by

6.9 billion mobile subscriptions in 2014⁶

31 billion devices and 4 billion users

will be connected to the Internet by 2020⁷

The Internet of Things (IoT) will enable all types of devices to connect, increasing bandwidth demands



A10 ADCs will need to accelerate and load balance traffic 24x7

4

INTERNET ATTACKS ARE GROWING



1850% INCREASE

in packet rates for DDoS attacks from 2011 to 2013⁸

The average size of a DDoS attack in 2013 was

10 Gbps⁸

and attacks frequently reached 60 Gbps⁸

DNS and NTP REFLECTION amplify DDoS attacks up to

28x - 556x⁹



WEB ATTACKS accounted for

35% of data breaches in 2013⁸

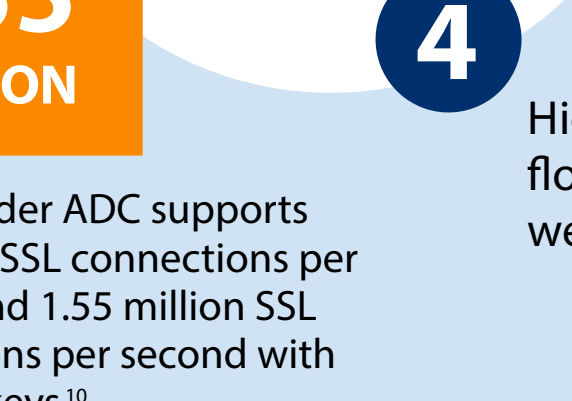


HELPS YOU MEET FUTURE PERFORMANCE DEMANDS

A10 Thunder® ADC handles 220 million+ SYN flood packets per second

220+ MILLION

1 High-speed Shared Memory Architecture eliminates performance bottlenecks



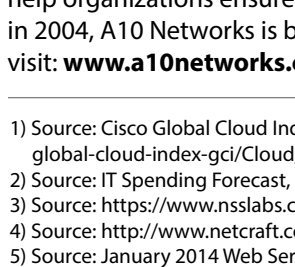
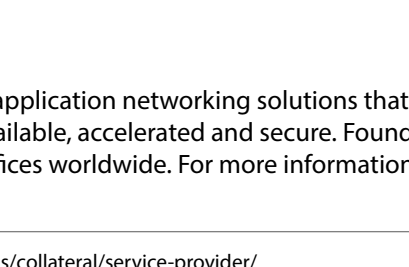
2 Powerful SSL performance with next generation security processors

1.55 MILLION

3 Advanced traffic optimization to offload application servers

4 High-speed security and flow processing to stop web and DDoS attacks

A10 Thunder ADC supports 174,000+ SSL connections per second and 1.55 million SSL transactions per second with 2048-bit keys¹⁰



www.a10networks.com/adc-security

1) Source: Cisco Global Cloud Index: Forecast and Methodology, 2013-2018 http://www.cisco.com/c/en/us/solutions/collateral/service-provider/global-cloud-index-gci/Cloud_Index_White_Paper.html
 2) Source: IT Spending Forecast, 3Q14, Gartner, <http://www.gartner.com/webinar/2834319/>
 3) Source: <https://www.nsslabs.com/news/press-releases-nsslabs-research-finds-ssl-traffic-causes-significant-performance-problems-next>
 4) Source: <http://www.netcraft.com/internet-data-mining-ssl-survey/>
 5) Source: January 2014 Web Server Survey, Netcraft, <http://news.netcraft.com/archives/2014/01/03/january-2014-web-server-survey.html>
 6) Source: <http://mobithinking.com/mobile-marketing-tools/latest-mobile-stats/#subscribers>
 7) Source: Intel, Internet of Things Backgrounder, <https://newsroom.intel.com/docs/DOC-2297>
 8) Source: Verizon 2014 Data Breach Investigations Report, <http://www.verizonenterprise.com/DBIR/2014/>
 9) Source: <http://www.us-cert.gov/ncas/alerts/TA14-017A>
 10) 1.55 million TPS with unlimited requests per connection in an SSL offload configuration.