FLEXPOOL™

CAPACITY POOLING

A10 Networks capacity pooling provides consumption flexibility to distribute A10 secure application services wherever and whenever they are needed. A scalable capacity pool aligns with a cloud consumption model to dynamically allocate services and eliminate over provisioning.

PLATFORMS

vTHUNDER ADC
Virtual Appliance

THUNDER ADC
Bare Metal

amazon web services

Microsoft Azure

vmware®

ON-DEMAND SECURE APPLICATION SERVICES

Organizations are transitioning their apps and workloads to private, public and hybrid clouds. Capacity planning is difficult to determine in cloud environments. Many businesses overprovision IT to ensure resource availabiliy; others underestimate their future needs and risk service outages. Both approaches require significant capital outlays and have long procurement cycles, limiting IT agility and restricting business operations.

This new paradigm requires an expansion of the use of software-based offerings to improve flexibility, agility and scalability across on-premise and cloud. Traditional physical appliances will be augmented by virtual and bare metal solutions to ensure application availability, visibility and security

of confidential resources. A10 provides a broad array of secure application services, including application delivery controllers, carrier-grade networking and converged firewalls.

To best match the capacity needs in dynamic cloud environments, A10 offers FlexPool. FlexPool allows administrators to granularly divide a large pool of capacity and distribute it as desired. Software instances can be provisioned on demand for on-premise, private or public cloud infrastructures.

This capacity pool works in conjunction with A10's Global Licensing Manager (GLM) to handle license generation, dynamic allocation and usage monitoring. FlexPool simplifies licensing, enables user-defined bandwidth requirements per instance to eliminate over provisioning. The software subscription model also minimizes up-front expenses and maintenance and support are included.
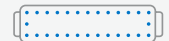
TALK
### WITH A10
WEB
a10networks.com/flexpool

BENEFITS

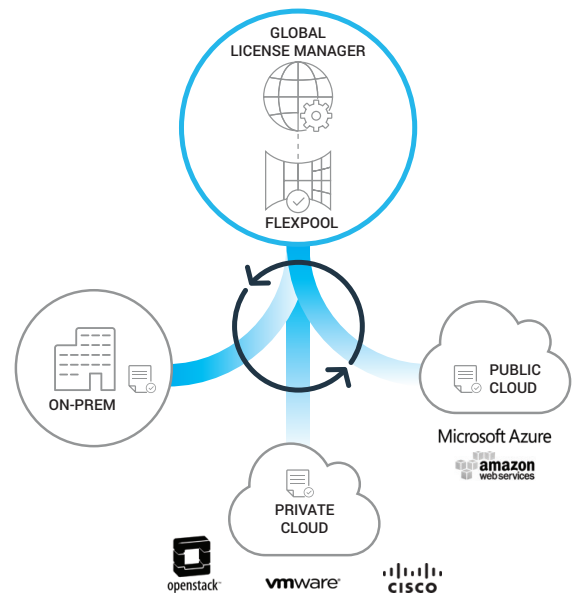## *FLEXIBLE ALLOCATION*

DYNAMIC ALLOCATION ENABLES AGILITY

With changing user requirements, evolving infrastructure locations and complex traffic profiles, secure application services must be appropriately apportioned from smaller to larger sizes. FlexPool ensures a shared pool of bandwidth is available on demand and distributed as needed and only for the timeframes required. By automatically allocating capacity, organizations increase their agility while obviating the risk of running short on resources.

SHARED CAPACITY POOL

ADC CGN CFW

APP APP APP
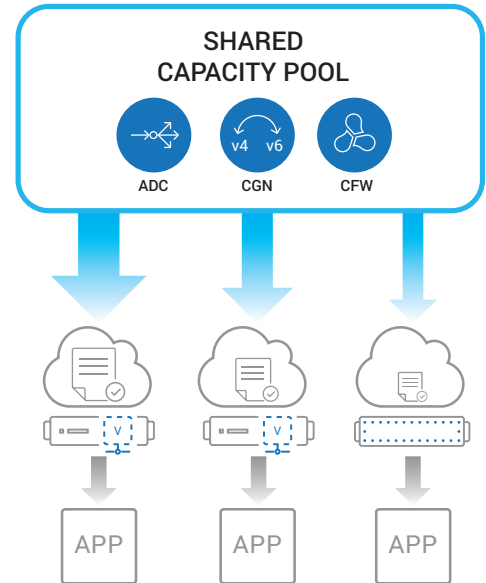
INVESTMENT PROTECTION

LICENSE PORTABILITY ACROSS ON-PREMISE, CLOUD AND HYBRID ENVIRONMENTS

Businesses are transitioning at various rates to a mixture of traditional datacenters and cloud infrastructures. A10 enables the portability of secure application services for any such environment. FlexPool allows the same Thunder software-based solutions with full feature parity to be located essentially anywhere. As applications and workloads shift between on-premise, private clouds, public clouds or any combination, A10 fully supports the necessary secure appication services across these boundaries. Burgeoning and transient workloads can be globally balanced across the entire organization to minimize overprovisioning.

GLOBAL LICENSE MANAGER

FLEXPOOL

ON-PREM

PUBLIC CLOUD

Microsoft Azure

amazon web services

PRIVATE CLOUD

openstack vmware cisco

OPERATIONAL SIMPLICITY
AUTOMATE INFRASTRUCTURE CONTROL WHILE ENSURING FULL VISIBILITY

The vast majority of IT resource expenses involve ongoing operations. It is imperative that infrastructure be easy to manage. With FlexPool, operational changes are minimized as administrators only need to manage one central capacity pool rather than a license for each of the potentially thousands of instances. Subsequent individual licenses are automatically generated for use across hybrid deployments from the same capacity pool. Subscription management controls activation with auto renewal options and advanced license expiration notifications to prevent service disruptions. Full visibility is ensured through the Global Licensing Manager (GLM) dashboard that provides usage monitoring, analytics and audit trails.

GLOBAL LICENSING MANAGER (CLOUD SERVICE)

License Management

Subscription Management

Dynamic Allocation

Usage Monitoring
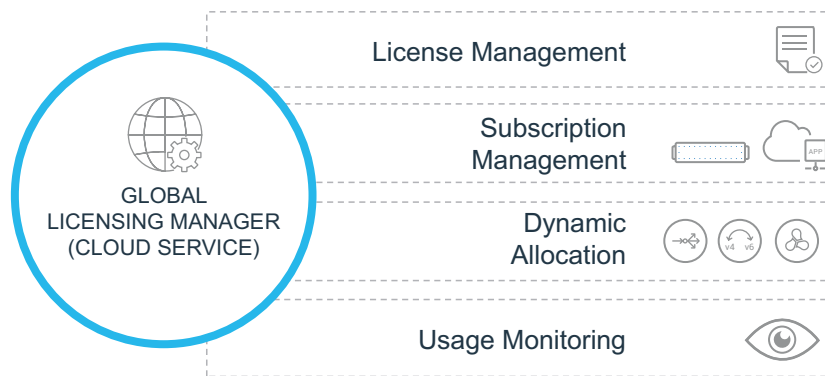
FEATURES

FLEXIBLE PROCESSING CAPACITY

FLOATING
LICENSE POOL

Traditional business models require the acquisition of a license for each appliance and then applying the license to that device. For multiple instance deployments, this can be cumbersome. With FlexPool, nodes are not locked and IT only licenses a central pool of capacity and then allocates the bandwidth of the pool among the appliances without the need for additional licenses. Licenses can be checked out and then back in either manually or through an automated process. The same activation and expiration dates apply to all instances with simple auto renewal options for simplicity.
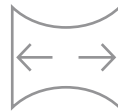
ELASTIC
INSTANCE SIZING

To handle transient workload variations the individual instance capacities can be dynamically expanded while unused capacity can be returned to the pool. FlexPool supports highly granular increments, in quantities of 1Mbps. This enables the continuous delivery of software-based A10 secure application services. Additional licenses can be checked out from the central pool and readily provisioned and configured as throughput demands increase or more applications are deployed. There is no enforced cap on the number of instances associated with each pool.

USER DEFINED
CAPACITY ALLOCATION

Different applications and workloads encounter varying traffic levels. To ideally match processing needs with A10 secure application services, FlexPool enables pooling licenses to be granularly provisioned from low capacity 25 Mbps, up to high bandwidth 40 Gbps instances in increments of 1 Mbps. A10 Application Delivery Partitions (ADPs) further allow each instance to be segmented in up to 32 independent domains for the ultimate in flexibility.

SCALABLE
POOL CAPACITY

Pooled license capacities are available in several sizes: 10, 50 and 100 Gbps, as well as customized enterprise license options. Pools may be aggregated together in any combination for expanded capacity without disrupting service. Each pool supports multiple users and applications. FlexPool monitors aggregate allocation and guarantees the availability of the allotted total pool of capacity.

FEATURES *(cont.)*

AGILE DEPLOYMENT

GLOBAL
LICENSING MANAGER

FlexPool operates in conjunction with A10's Global Licensing Manager (GLM) which is the master licensing platform and it is managed by A10 Networks. The GLM provides centralized license control, bandwidth provisioning, monitoring and analytics; administrators utilize its portal to manage licenses, instances and user access. Device level visibility is achieved for numerous parameters such as usage levels, activated instances and software versions and audit trails can be obtained. To ensure secure universal access from any location this cloud service is hosted on a ubiquitous public cloud for ensured availability and all communications are encrypted.

MULTI-CLOUD
PORTABILITY

A10 secure application services may be located basically anywhere. A10 vThunder® and Bare Metal platforms are available with FlexPool and have proven interoperability within traditional on-premise data centers, private clouds with vRO, Cisco- and OpenStack-based orchestration tools, and for public clouds including Amazon Web Services and Microsoft Azure. Licensed capacity may be simultaneously allocated across each of these diverse environments.

SECURE APPLICATION SERVICE PLATFORMS

APPLICATION DELIVERY CONTROLLER AND LOAD BALANCER
VTHUNDER AND BARE METAL ADC

Optimize, accelerate and secure your applications by implementing agile and secure application services with vThunder and Bare Metal ADC. Scale your web and infrastructure servers seamlessly to ensure business continuity, accelerate applications for efficient operations and protect infrastructure for uninterrupted operations.

CARRIER GRADE NETWORKING & IPV6 MIGRATION
VTHUNDER AND BARE METAL CGN

Deliver advanced carrier-grade networking with vThunder and Bare Metal CGN for extending IPv4 address space and IPv4-to-IPv6 migration. Quickly and efficiently automate on-demand provisioning of IPv4 and other secure application tenant services to avoid business disruptions due to IPv4/ IPv6 compatibility issues.

CONVERGED FIREWALL
VTHUNDER AND BARE METAL CFW

Secure high-value assets from attacks with a data center firewall, encrypt data at massive scale, secure communications with an IPsec VPN, protect mobile core infrastructure with a Gi/SGi firewall, and uncover threats in SSL traffic with a secure web gateway with vThunder and Bare Metal CFW. vThunder and Bare Metal CFW also include ADC and CGN features to consolidate security and reduce your TCO.

PACKAGING

Packaging	Standard: ADC/CGN Advanced: CFW
Form Factors	vThunder Bare Metal
Licensing	Standard: 10G, 50G, 100G Enterprise Level Agreements (ELA)
Subscription Period	1 Year 3 Year
Support	Gold Support Included
Availability	Release v4.1.1 P4 and up

LEARN MORE
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