A simple, cost-effective way to transition your workloads to the cloud

Introducing NetScaler pooled capacity hardware and software

Organizations around the world are undergoing a digital transformation

To gain agility and simplify IT, more organizations than ever are moving their application workloads from traditional data centers to the cloud or delivering them as SaaS. And more users are accessing these applications from multiple devices and locations, whether at home, in the office, or on the road.

Application delivery controllers (ADCs) are at the heart of an optimized and secure application experience. They're typically sized based on current and projected application usage. However, as applications are constantly evolving, the number of users is increasing, and workloads are moving to the cloud, it's becoming challenging to foresee sizing or scalability requirements for ADCs.

Organizations oftentimes are forced to do fork-lift upgrades to their network infrastructure and add more ADCs just for the cloud, which can be prohibitively expensive and hinder cloud adoption.

NetScaler, an industry-leading, software-first application delivery solution, enables organizations to leverage their existing investments as they move to the cloud. With pooled capacity, NetScaler offers zero-capacity appliances for an easier, cost-effective transition to cloud.

Pooled capacity allows you to share existing bandwidth among your NetScaler appliances, regardless of form factor, deployed across data centers and the appliances you plan to deploy in cloud, reducing the cost of adopting a cloud-based infrastructure. It allows you to scale your NetScaler infrastructure up and down on demand for a more agile application environment.

Learn more about pooled capacity in our eBook.

Key benefits of zero-capacity appliances

Transition from hardware to a cloud or virtual platform

Zero-capacity appliances allow software licenses to be easily portable, enabling you to bring your own capacity (BYOC) to the cloud. You can share and transfer existing bandwidth capacity across all NetScaler form factors (regardless of their location) across multiple data centers or clouds, and from a centralized location using NetScaler Management and Analytics System (MAS).
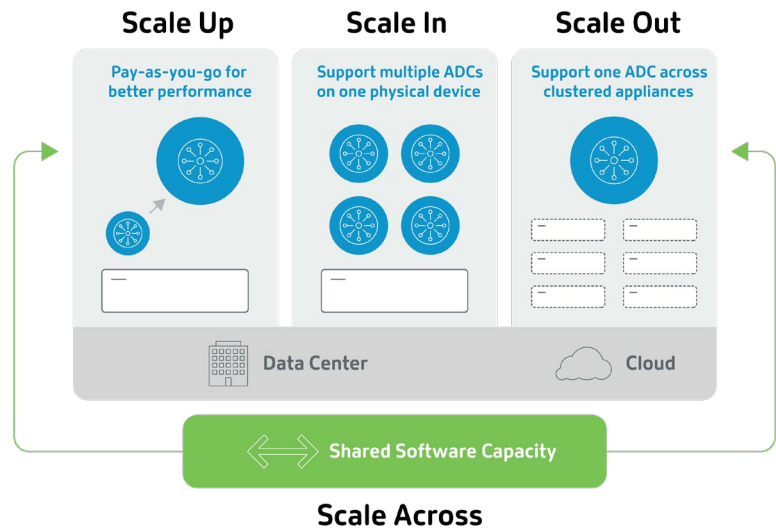

Share capacity across data centers

Zero-capacity appliances allow automated provisioning and sharing of bandwidth, maintained in NetScaler MAS, across all NetScaler appliances (hardware, virtual, or containerized). This creates a far more efficient usage of ADC infrastructure.
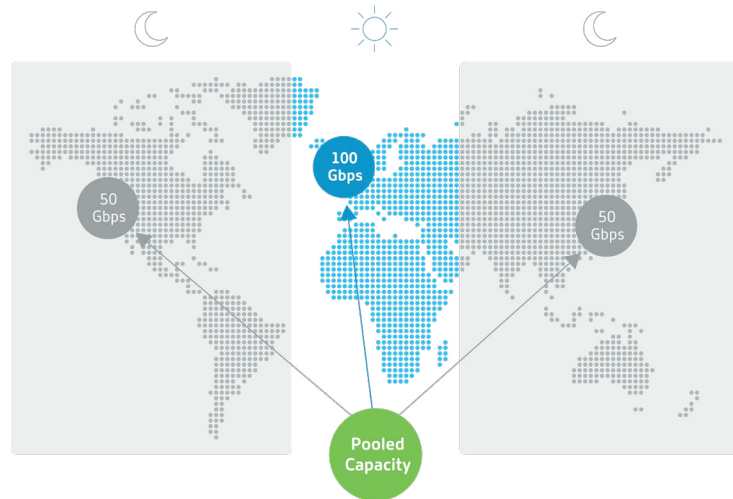
Reduce cost of refresh cycles

Driven by inalways changingin security, performance, and infrastructure requirements, refresh cycles that traditionally have been every five years are now every two to three years. As a result, customers looking to stay current incur a huge cost. With NetScaler TriScale2 technology that includes pooled capacity, you can keep porting your existing software to new appliances.
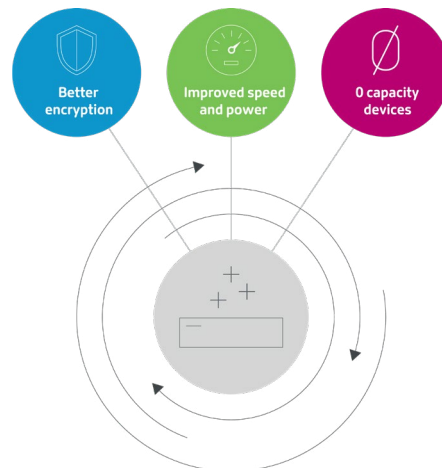
Zero-capacity platform specifications

NetScaler Hardware Platform	MPX/SDX 14000Z	MPX/SDX 14000Z-40G	MPX/SDX 25000Z-40G
Platform attributes			
Memory	64 GB	64 GB	256 GB
Ethernet ports	16x 10G SFP+	16x 10G SFP+ and 4x 40GbE QSFP+	16x 10G SFP+ and 4x 40GbE QSFP+
Transceivers support	10GE SFP+	10GE SFP+; 40GbE QSFP+	10GE SFP+; 40GbE QSFP+
Platform performance			
System throughput, Gbps (L7 throughput)	20-100	20-100	100-200
L7 HTTP requests/sec	Up to 3,000,000	Up to 2,800,000	Up to 4,000,000
SSL transactions/sec (2K key certificates)*	Up to 69,000	Up to 69,000	Up to 69,000
ECDHE transactions/sec**	Up to 33,500	Up to 33,500	Up to 56,000
SSL throughput, Gbps	Up to 45Gbps	Up to 45Gbps	Up to 46Gbps
Compression throughput, Gbps	Up to 9Gbps	Up to 8.6Gbps	Up to 17Gbps
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Maximum number of instances (on SDX models)	25	25	115
Power supplies	2	2	2
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz
Optional DC power supply	Yes	Yes	Yes
Max power supply	528W	528W	822W
Typical power consumption	300W 1024 BTU/Hr	300W 1024 BTU/Hr	300W 1024 BTU/Hr
Weight, lbs	60	60	60
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Depth	28 in / 71.2 cm	28 in / 71.2 cm	28 in / 71.2 cm
Operating temperature	0C to 40C	0C to 40C	0C to 40C
Allowed relative humidity	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing
Safety certifications	CSA	CSA	CSA
Electromagnetic emissions certifications and susceptibility standard	FCC (Part 15 Class A), CE, VCCI, RCM, NOM, BSMI, KCC, CITC, Israel MOC, Israel MOD, EAC	FCC (Part 15 Class A), CE, VCCI, RCM, NOM, BSMI, KCC, CITC, Israel MOC, Israel MOD, EAC	FCC (Part 15 Class A), CE, VCCI, RCM, NOM, BSMI, KCC, CITC, Israel MOC, Israel MOD, EAC
Regulatory compliance	RoHS, REACH, WEEE	RoHS, REACH, WEEE	RoHS, REACH, WEEE
Citrix compliance regulatory model	2U1P1B	2U1P1B	2U1P1D

*Performance varies depending on ciphers deployed; contact your Citrix sales representative for details.
**Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

Zero-capacity platform specifications

NetScaler Hardware Platform	MPX/SDX 14000Z-40S	MPX 14000Z-40C	MPX/SDX 14000Z FIPS
Platform attributes			
Memory	64 GB	64 GB	64 GB
Ethernet ports	4x 40GE QSFP+ ; 8x 10GE SFP+	4x 40GE QSFP+ ; 4x 10GE SFP+ ; 4x 10GBase-T	16x 10G SFP+
Transceivers support	40GE QSFP+: SR ; 10GE SFP+: SR, LR	40GE QSFP+: SR ; 10GE SFP+: SR, LR	10GE SFP+: SR, LR; 1 G CU
Platform performance			
System throughput, Gbps (L7 throughput)	100	100	80
L7 HTTP requests/sec	Up to 2,900,000	Up to 2,800,000	Up to 2,000,000
SSL transactions/sec (2K key certificates)*	Up to 275,000	Up to 69,000	Up to 33,000
ECDHE transactions/sec**	Up to 51,000	Up to 33,500	N/A
SSL throughput, Gbps	Up to 59	Up to 45	Up to 30
Compression throughput, Gbps	Up to 10.5	Up to 8.6	Up to 6.8
ICA Proxy/SSL VPN concurrent users	20,000	20,000	20,000
Maximum number of instances (on SDX models)	25	N/A	25
Power supplies	2	2	2
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes	Yes
Max power supply	528W	528W	650W 2219 BTU/Hr
Typical power consumption	300W 1024 BTU/Hr	300W 1024 BTU/Hr	500W 1706 BTU/Hr
Weight, lbs	60	60	45
Height	2U	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Depth	28 in / 71.2 cm	28 in / 71.2 cm	28 in / 71.2 cm
Operating temperature	0C to 40C	0C to 40C	0C to 40C
Allowed relative humidity	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing
Safety certifications	CSA	CSA	CSA
Electromagnetic emissions certifications and susceptibility standard	FCC (Part 15 Class A), CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), CE, VCCI, CNS, AN/NES
Regulatory compliance	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1B	2U1P1B	C11500

*Performance varies depending on ciphers deployed; contact your Citrix sales representative for details.
**Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

Zero-capacity platform specifications

NetScaler Hardware Platform	MPX/SDX 25000ZA	MPX/SDX 8900Z	MPX/SDX 8000Z
Platform attributes			
Memory	256 GB	32 GB	32 GB
Ethernet ports	8x 40GE QSFP+	4x 10G SFP+ ; 6x 10/100/1000 CU	6x 10/100/1000 BASE-T and 6x 1000BASE-X SFP (fiber or copper) or 6x 10/100/1000 BASE-T and 2x 10G BASE-X SFP+
Transceivers support	40GE QSFP+: SR	10GE SFP+: SR, LR	10GE SFP+: SR, LR; 1 GE SFP: SX, LX
Platform performance			
System throughput, Gbps (L7 throughput)	200	33	15
L7 HTTP requests/sec	Up to 5,200,000	Up to 2,300,000	Up to 1,200,000
SSL transactions/sec (2K key certificates)*	Up to 69,000	Up to 40,000	Up to 11,000
ECDHE transactions/sec**	Up to 56,000	Up to 16,000	N/A
SSL throughput, Gbps	Up to 46	Up to 25	Up to 6
Compression throughput, Gbps	Up to 17	Up to 4.8	Up to 3.5
ICA Proxy/SSL VPN concurrent users	35,000	10,000	10,000
Maximum number of instances (on SDX models)	115	7	5
Power supplies	2	1 (2nd optional)	1 (2nd optional)
Input voltage and frequency ranges	100-240VAC full range, 50-60 Hz	100-240VAC full range, 50-60 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes	Yes
Max power supply	1000W	336W	250W 853 BTU/Hr
Typical power consumption	300W 1024 BTU/Hr	300W 840 BTU/Hr	185W 631 BTU/Hr
Weight, lbs	60	25	32
Height	2U	1U	1U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D for 19-inch racks	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Depth	28 in / 71.2 cm	24 in / 61 cm	28 in / 71.2 cm
Operating temperature	0C to 40C	0C to 45C	0C to 40C
Allowed relative humidity	5%-95%, non-condensing	5%-95%, non-condensing	10%-90%, non-condensing
Safety certifications	CSA	CSA	CSA
Electromagnetic emissions certifications and susceptibility standard	FCC (Part 15 Class A), CE, VCCI, CNS, AN/NES	(FCC), (CE), (VCCI), (RCM), (CCC), (KCC), (BIS), (NOM), (CITC), (ICASA), (EAC)	FCC (Part 15 Class A), CE, VCCI, CNS, AN/NES
Regulatory compliance	RoHS, WEEE	RoHS, REACH, WEEE	RoHS, WEEE
Citrix compliance regulatory model	2U1P1B	1U1P1A	NS 2x 10GE SFP+ 6x CU

 *Performance varies depending on ciphers deployed; contact your Citrix sales representative for details.
**Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

Zero-capacity platform specifications

NetScaler Hardware Platform	MPX/SDX 22000Z	MPX/SDX 24000Z
Platform attributes		
Memory	256 GB	256 GB
Ethernet ports	24x 10GBASE-X SFP+ or (for NEBS models) 24x 10GBASE-X SFP+ 12x 1000BASE-X SFP (fiber or copper)	24x 10GE SFP+ and 12x GE SFP (fiber or copper)
Transceivers support	10GE SFP+: SR, LR; 1G SFP: SX, LX	10GE SFP+: 1G SFP: SR, LR, CU
Platform performance		
System throughput, Gbps (L7 throughput)	Up to 120	Up to 150
L7 HTTP requests/sec	Up to 4,700,000 / 3,700,000	Up to 5,800,000
SSL transactions/sec (2K key certificates)*	Up to 560,000 ; 155,000 (NEBS)	Up to 135,000
ECDHE transactions/sec**	Up to 85,000	Up to ~40,000
SSL throughput, Gbps	Up to 75/56 ; 42 (NEBS)	Up to 44
Compression throughput, Gbps	Up to 14 / 12.8	Up to 14.6
ICA Proxy/SSL VPN concurrent users	35,000	35,000
Maximum number of instances (on SDX models)	80	80
Power supplies	4	4
Input voltage and frequency ranges	100-240VAC full range, 47-63 Hz	100-240VAC full range, 47-63 Hz
Optional DC power supply	Yes	Yes
Max power supply	1100W 3753 BTU/Hr	1100W 3753 BTU/Hr
Typical power consumption	850W 2900 BTU/Hr	850W 2900 BTU/Hr
Weight, lbs	58	58
Height	2U	2U
Width	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets	EIA 310-D, IEC 60297, DIN 41494 SC48D rack width with mounting brackets
Depth	28 in / 71.2 cm	28 in / 71.2 cm
Operating temperature	0C to 40C	0C to 40C
Allowed relative humidity	5%-95%, non-condensing	5%-95%, non-condensing
Safety certifications	CSA	CSA
Electromagnetic emissions certifications and susceptibility standard	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES	FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES
Regulatory compliance	RoHS, WEEE, NEBS Level 3 available	RoHS, WEEE
Citrix compliance regulatory model	24x 10GE SFP+	24x 10GE SFP+ 12x SFP NST

 *Performance varies depending on ciphers deployed; contact your Citrix sales representative for details.
**Hybrid SSL optimization (TLS1-ECDHE-RSA-AES128-SHA 256).

NetScaler Software Platform	VPX
Platform attributes	
Memory	8–24 GB
Max vCPUs	2–6
Recommended network driver	Emulation or Paravirtualization
Hypervisor supported	Xen, ESX, KVM
Platform performance	
System throughput, Gbps	Up to 8 Gbps
SSL transactions/sec (2K key certificates)*	Up to 2,000
SSL throughput	Up to 6 Gbps
ICA Proxy/SSL VPN concurrent users	Up to 3,000

*Performance varies depending on ciphers deployed; contact your Citrix sales representative for details.

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