

Operation Analytics Report

Reporting duration: Tuesday August 11, 2020 - Wednesday August 12, 2020

Prepared for Demo-ADC-HA on 08/12/20, 5:44pm PST by A10 Harmony®

*"ENSURE YOUR NETWORKS ARE
PROTECTED, RELIABLE AND
ALWAYS AVAILABLE."*



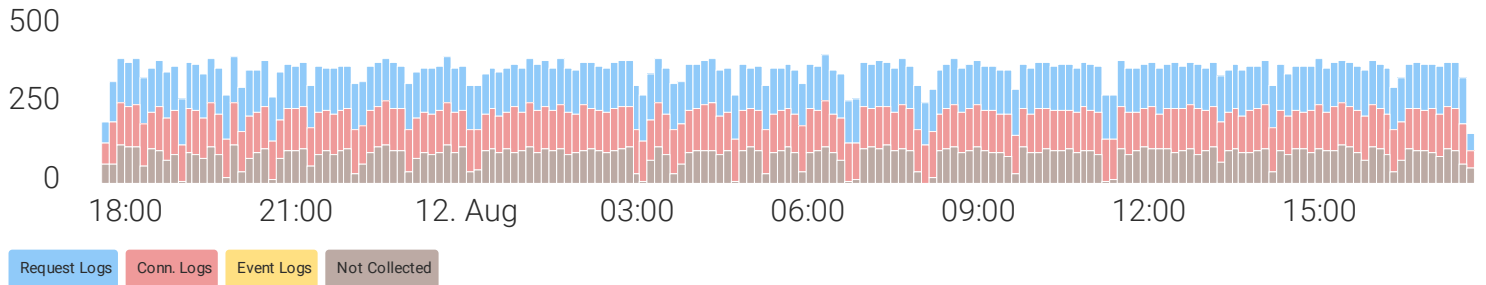
Thunder ADC



Summary

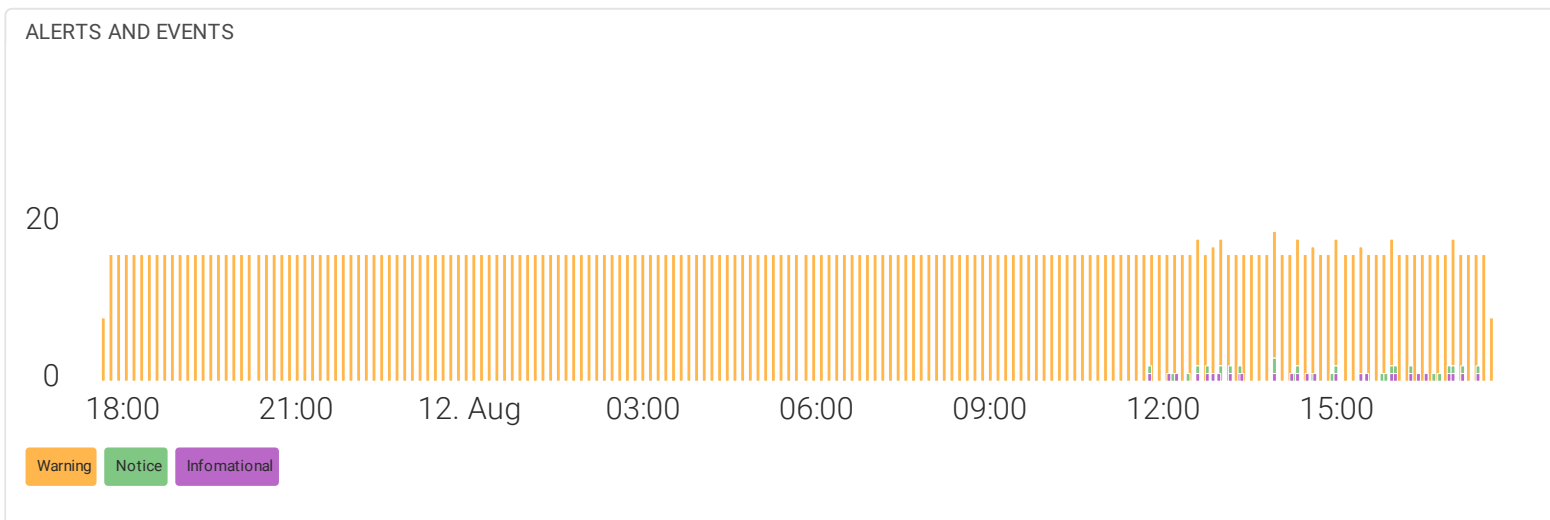
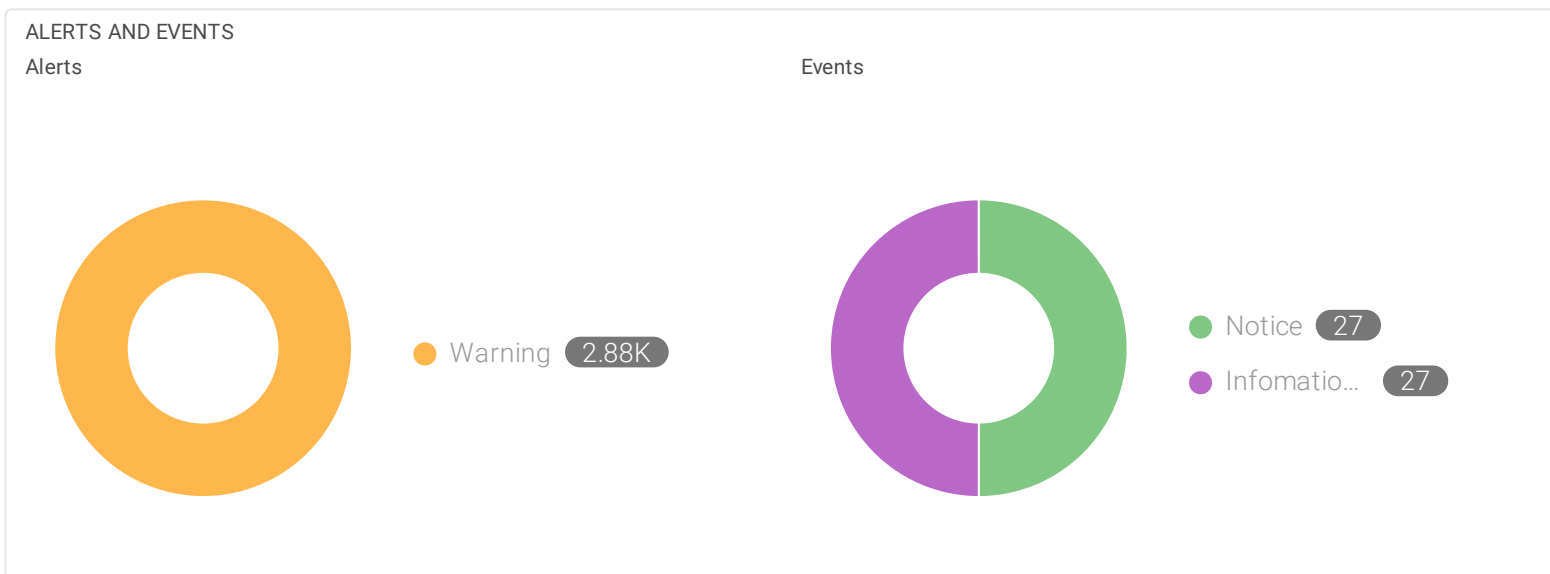
Name	Value(Total)	Value(Average)	Value(Peak)
1XX	0	0	0
2XX	25.01K	138.19	151
3XX	2	0.01	1
4XX	227	1.25	6
5XX	0	0	0
6XX	0	0	0
Unknown	0	0	0
GET	22.80K	125.96	136
POST	2.63K	14.52	17
PUT	0	0	0
DELETE	0	0	0
Total Requests	25.24K	139.45	152
Active Connections	1.32K	7.27	17
Active SSL Connections	513	2.83	7
SSL Connection Rate	1.08	0.01	0.01
Data CPU Utilization	-	0.03	0.09
Control CPU Utilization	-	10.79	13.19

Log Capture





Alerts & Events Stats



Top 5 Frequent Alerts

Name	Frequency	Severity	TriggerName	Tenant	Action
HighResponseTime_1	2879	Warning	End2EndClientLatencyGT300ms	Demo-ADC-HA	-



Alerts & Events Stats (Continued)

Events by Device

Name	Frequency	Percentage(%)
ADC-2	64	54.24
ADC-1	54	45.76

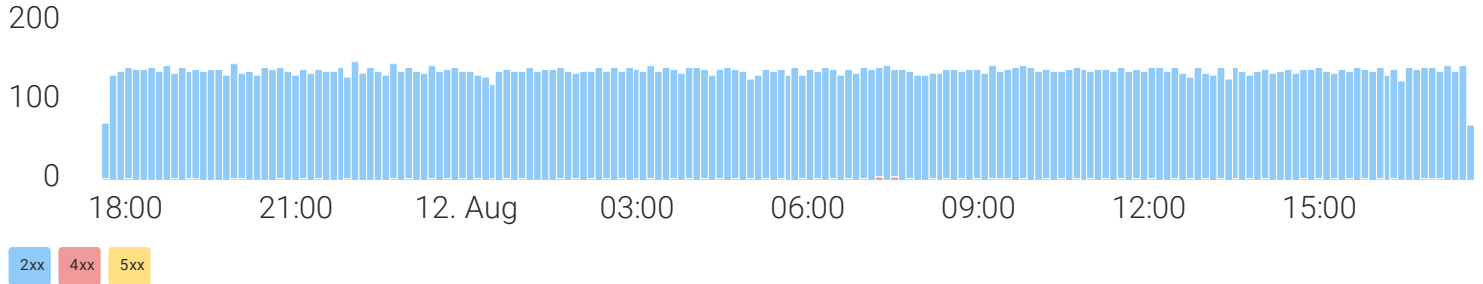
Events by Module

Name	Frequency	Percentage(%)
[SYSTEM]	118	100

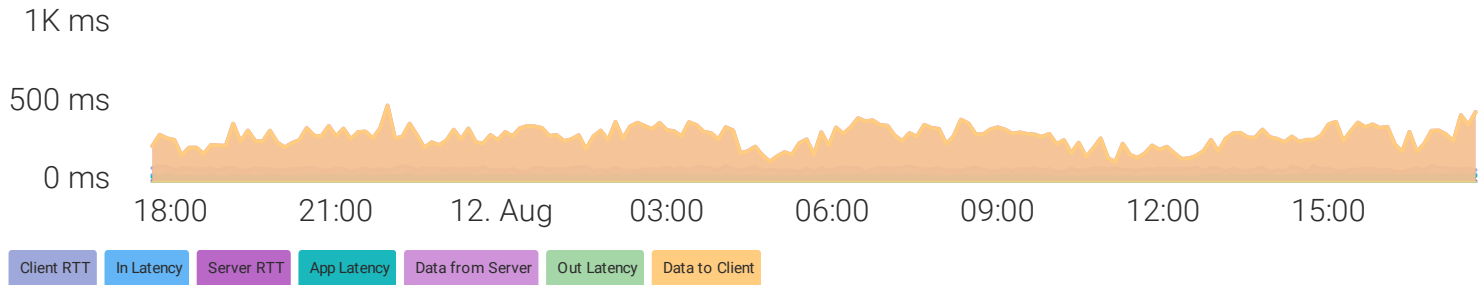
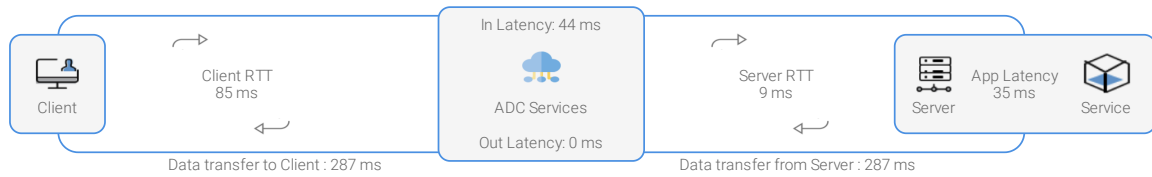


Traffic Stats

CLIENT HTTP RESPONSE



AVG END-TO-END LATENCY



TOP 5 CLIENTS

Client IP	Total Request	Request/sec	Response Time Avg(ms)
45.32.36.158	3.59K	0.04	0
188.226.158.160	3.51K	0.04	0
149.28.79.140	3.42K	0.04	0
45.63.61.213	457	0.00	0
45.76.192.50	454	0.00	0



Traffic Stats (Continued)

THROUGHPUT

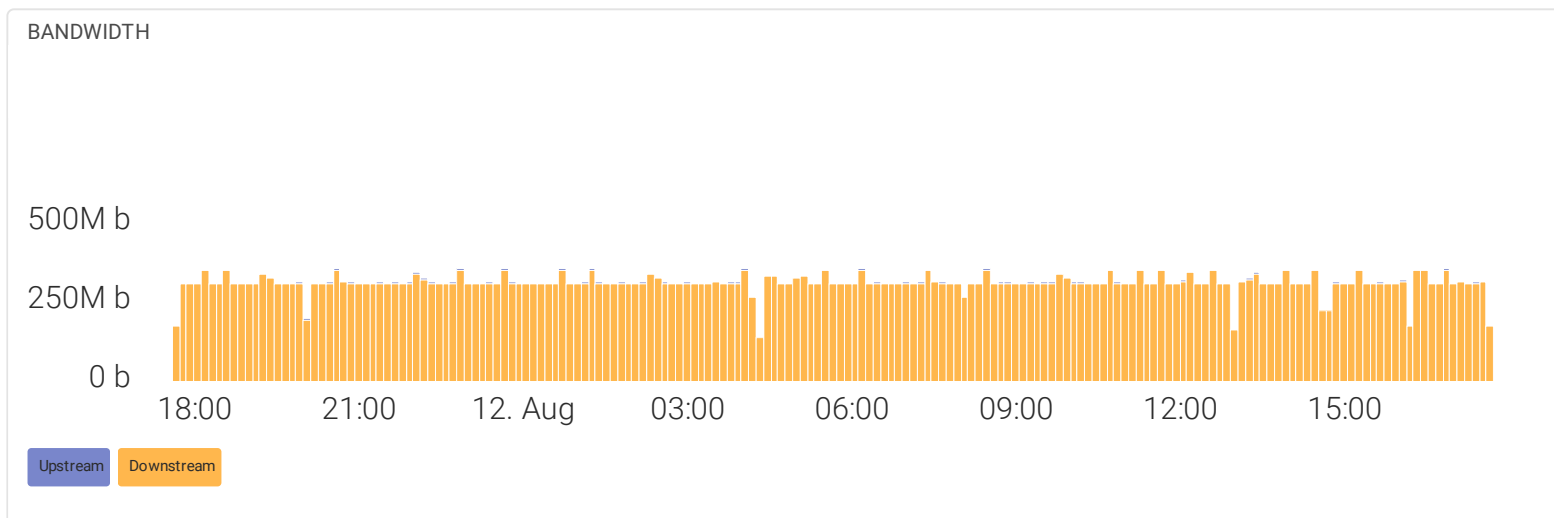


GEO TRAFFIC SUMMARY

Country	Throughput(bps) (Avg Peak)	Latency(ms) (Avg Peak)	HTTPS	Request
US	6.07K 9.57K	1.03K 2.25K	4.32K	9.68K
JP	4.57K 8.05K	1.59K 3.87K	2.40K	4.57K
NL	4.31K 8.10K	902.20 2.78K	2.12K	4.45K
GB	641.77 1.37K	111.67 303.13	846	2.01K
FR	327.55 1.13K	53.83 199.63	411	1.04K
DE	303.65 880.92	60.23 211.75	367	1.03K
SE	157.16 582.60	34.36 145.63	202	541
CA	168.15 710.30	28.48 155.75	211	507
AT	348.48 1.07K	10.04 88.13	359	454
AU	115.02 452.03	26.81 165.63	144	405

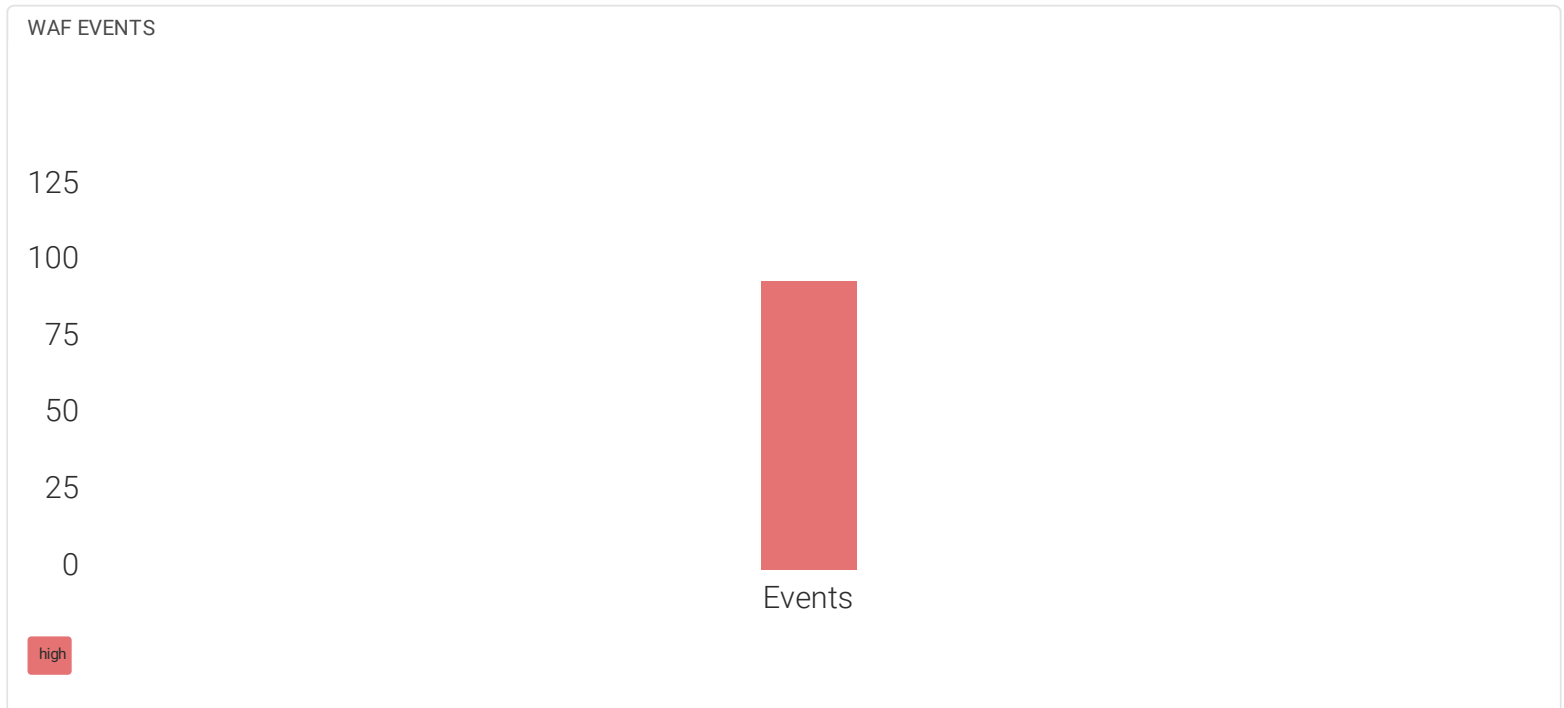
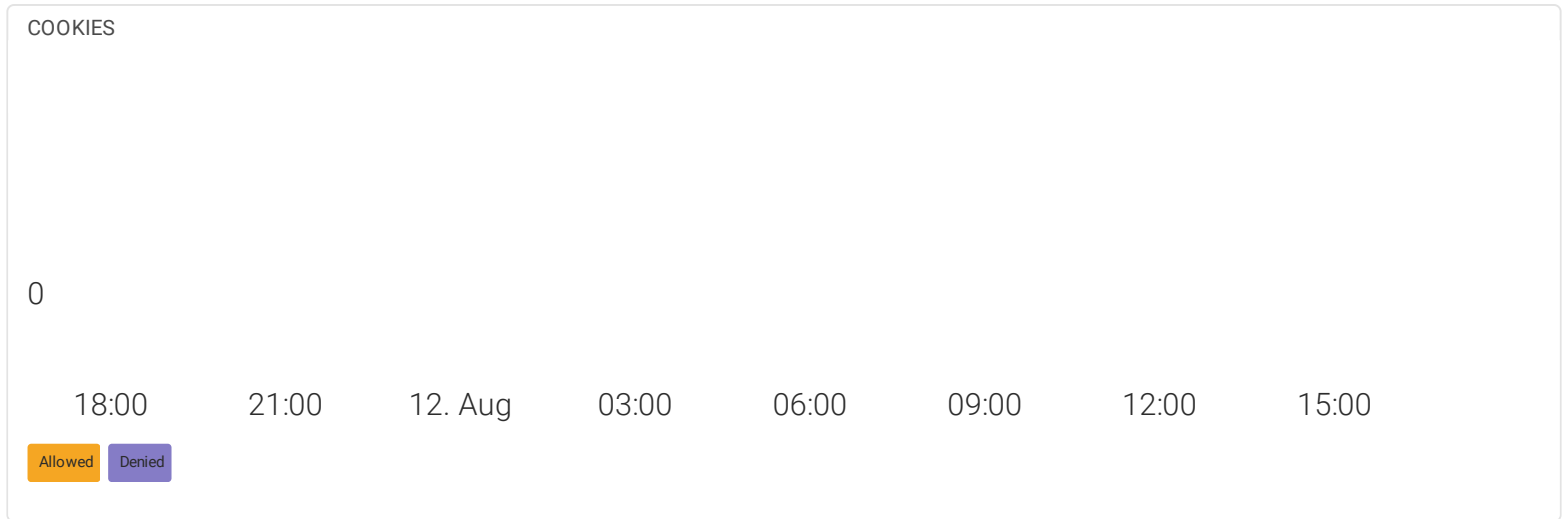
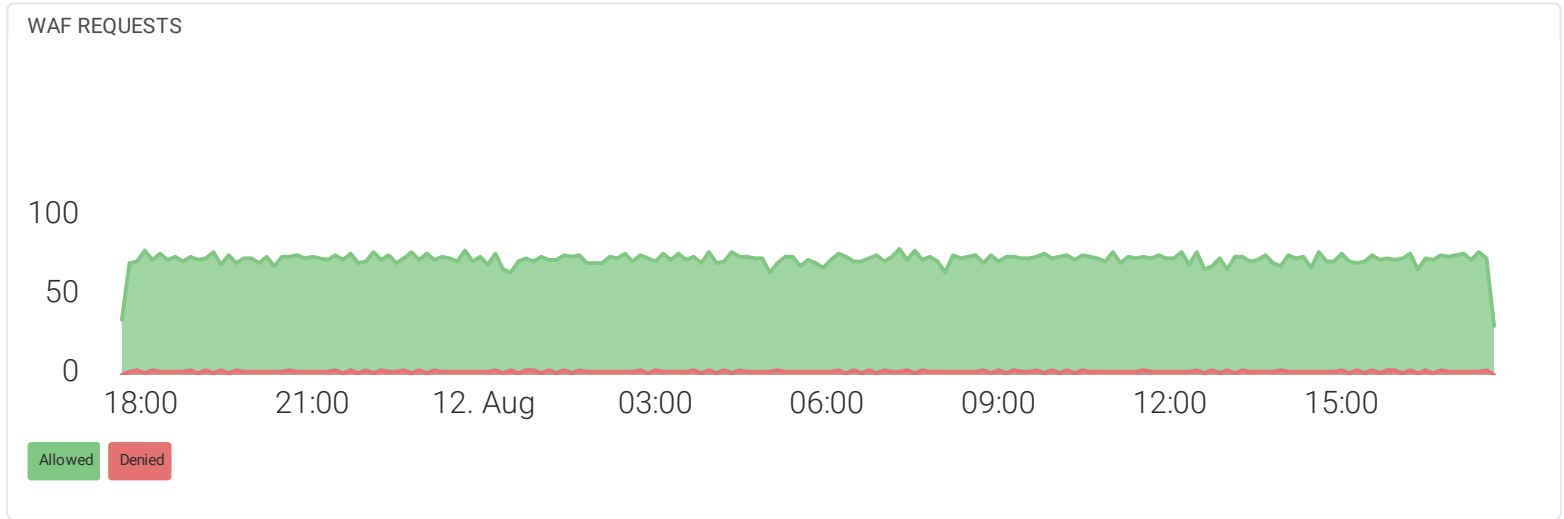


Traffic Stats (Continued)






WAF






WAF (Continued)

VIOLATION DISTRIBUTION	Value
SQLIA URL CHECK	95
REQUEST CHECK VIOLATION	378

HTTP LIMIT VIOLATIONS	Value
 No Data	

HTTP PROTOCOL VIOLATIONS	Value
 No Data	



WAF (Continued)

TOP SOURCES						
178.73.210.92 4 (16.00%)	178.62.106.84 3 (12.00%)		45.63.76.68 3 (12.00%)		104.131.247.151 2 (8.00%)	
	149.28.124.140 3 (12.00%)		104.156.255.184 2 (8.00%)		104.238.164.105 2 (8.00%)	
				138.68.24.207 2 (8.00%)		
				138.68.77.156 2 (8.00%)		



Application & Server Stats

App Service

Name	Throughput(bps) (Avg Peak)	Peak Hour (Throughput)	Active Conn (Avg Peak)	Conn Rate(cps) (Avg Peak)	Response Time(ms) (Fastest Slowest)	Avg Req Processing(ms) Avg Rsp Processing(ms)
SSLi_vip_002_0_others	0 0	-	0 0	0 0	0 0	0 0
SSLi_vip_002_0_tcp	0 0	-	0 0	0 0	0 0	0 0
SSLi_vip_002_0_udp	0 0	-	0 0	0 0	0 0	0 0
SSLi_vip_002_443_https	0 0	-	0 0	0 0	0 0	0 0
dummy15_80_http	0 0	-	0 0	0 0	0 0	0 0
wildacrd_all_0_tcp	0 0	-	0 0	0 0	0 0	0 0
wildacrd_all_0_udp	0 0	-	0 0	0 0	0 0	0 0
wildacrd_all_0_others	0 0	-	0 0	0 0	0 0	0 0
Web_Apps_80_http	6.66K 269.99K	August 11 22:00-23:00	0.19 34	0.09 3	58.63K 65.29K	0.83 0.02
vip_192.168.1.239_53_dns-tcp	0 0	-	0 0	0 0	0 0	0 0
vip_192.168.1.239_53_dns-udp	0 0	-	0 0	0 0	0 0	0 0
VIP_TESTE_FINAL_8083_tcp	0 0	-	0 0	0 0	0 0	0 0
Web_Apps_443_https	296.07K 41.30M	August 12 06:00-07:00	0.19 165	0.07 3	58.63K 65.29K	0.23 0.46
Web_Apps_8080_tcp	1.63K 102.15K	August 12 06:00-07:00	0.08 12	0.04 2	58.63K 65.29K	0 0
Web_Apps_1234_tcp	0 0	-	0 0	0 0	0 0	0 0

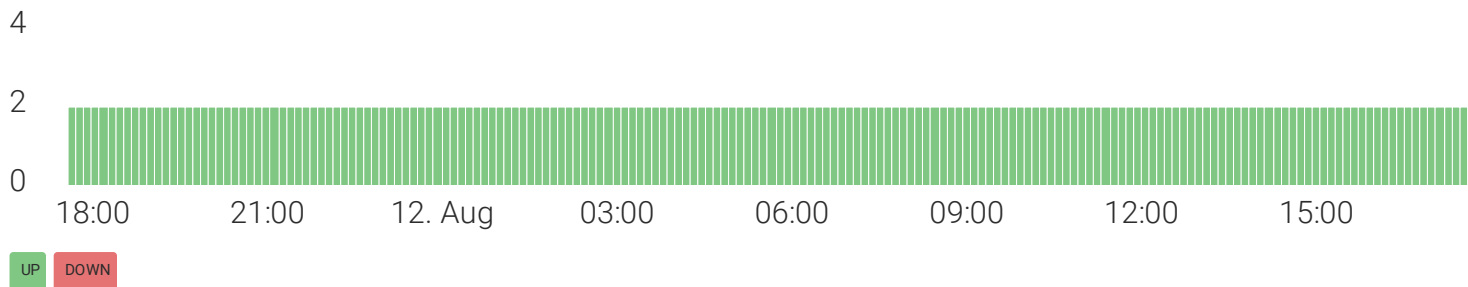
Top 5 Application URI

URI	Total Requests	Request/sec (Avg Peak)	Response Time(ms) (Avg Peak)
/	5.57K	0.06 0.07	2.59K 3.88K
/widgets.html	5.30K	0.06 0.07	1.87K 2.91K
/chart-chartjs.html	2.65K	0.03 0.04	953.69 1.69K
/form_validation.html	2.61K	0.03 0.03	2.03K 3.31K
/form_component.html	2.59K	0.03 0.03	1.04K 2.50K



Application & Server Stats (Continued)

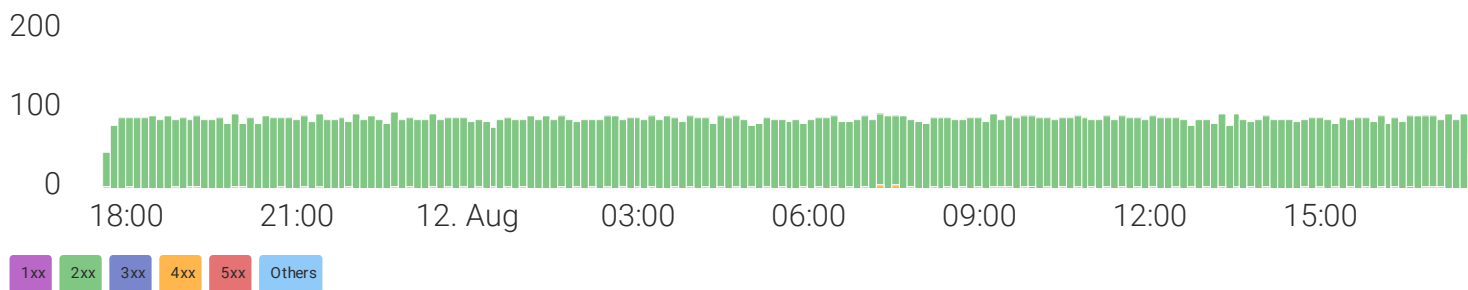
SERVER HEALTH



Top 10 Application Servers

Server Name	Total Requests	Request/sec (Avg Peak)	Peak Hour(Throughput)	Latency(ms) (Best Wrost Avg)	Throughput(bps) (Peak Avg)
SRV_AWS_80_tcp	7.84K	0.09 0.12	August 12 17:00-18:00	3.35K 991.34K 246.24K	1.21M 670.94K
SRV_Azure_80_tcp	8.22K	0.09 0.13	August 12 11:00-12:00	4.25K 537.71K 23.57K	1.40M 661.92K

SERVER RESPONSE CODES



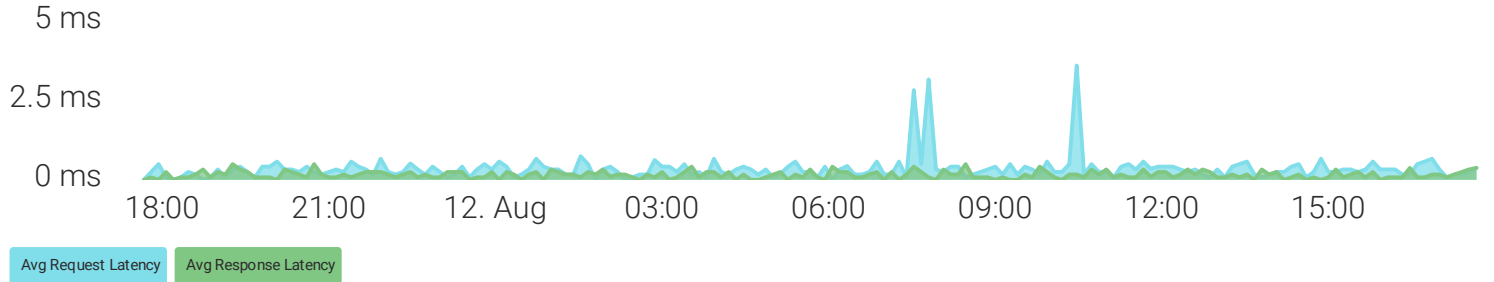
ORIGINS OF SERVER ERRORS

Server Name	3XX	4XX	5XX
SRV_AWS_80_tcp	0	146	0
SRV_Azure_80_tcp	2	81	0



Infrastructure

AVG THUNDER LATENCY - ALL DEVICES



Infrastructure Cluster Stats

Cluster Name	Control CPU Util(%) (Avg Peak)	Data CPU Util(%) (Avg Peak)	Memory Util(%) (Avg Peak)	CPS (Avg Peak)	Throughput(bps) (Avg Peak)
vThunder-ADC-HA	10.79 13.19	0.03 0.19	54.66 55.14	0.46 0.54	471.62K 487.79K

Device Stats

Device Name	Control CPU Util(%) (Avg Peak)	Data CPU Util(%) (Avg Peak)	Memory Util(%) (Avg Peak)	CPS (Avg Peak)	Throughput(bps) (Avg Peak)
ADC-1	9.62 13.25	0.06 0.38	54.60 54.95	0.28 0.32	471.54K 499.13K
ADC-2	11.97 15.63	0 0	54.72 55.35	0.18 0.25	471.73K 495.57K



Thunder Inventory

Device Deployment

Device Name	Country	Location	Zone	Hostname/ IP	ACOS Version	Model	#Data CPU	#Partitions
ADC-1	US	CA	DMZ	172.20.15.101	5.2.0 build 154 (Jul-17-2020,20:43)	vThunder	3	1
ADC-2	US	-	DMZ	172.20.15.102	5.2.0 build 154 (Jul-17-2020,20:43)	vThunder	3	1
CFW-CGNAT-device-2020-02-14-21:18:12	United States	CA	CA	10.64.4.123	5.2.0 build 154 (Jul-17-2020,20:43)	vThunder	3	1
CFW-GIFW-device-2020-02-25-17:39:31	USA	-	CA	10.64.4.125	5.2.0 build 154 (Jul-17-2020,20:43)	vThunder	3	2
Thunder-SSLi-Analytics.DMZ	-	-	-	172.20.15.107	5.1.0-P2 build 13 (Feb-28-2020,01:15)	vThunder	3	3
vThunder-device-2020-06-10-04:48:57	JM	-	Kingston	10.64.10.153	5.2.0-CGNCFW build 14 (Apr-28-2020,05:04)	vThunder	5	1

Cluster Deployment

Cluster Name	Type	Virtualization	#Active Logical Partition	#Devices
CFW-CGNAT-cluster-2020-02-14-21:18:10	single	VMware	1	1
CFW-GIFW-cluster-2020-02-25-17:39:27	single	VMware	2	1
Thunder-SSLi-Analytics	single	VMware	3	1
vThunder-ADC-HA	ha	VMware	1	2
vThunder-cluster-2020-03-10-08:59:01	single	KVM	1	1