cCloud™ Visibility Suite

LOREM +0.7844 | IPSUM -4.5489 | DOLOR +6.2035 | SIT -0.8965 | AMET +3.0293 | CONSECT -9.2904 | ADIPISCING -8.3748 | +Add

25.820

cVu-V in "inline mode" **captures traffic between subnets** or VNET/VPCs of interest - packets are not touched as they are routed through the appliance.

cVu-V in "endpoint" mode receives packets from the **cloud provided traffic/packet mirroring** feature

cClear-V provides single pane of glass **management and analytics** for all cPacket appliances. Pulling required data from **clusters of cPacket appliances**

cCloud appliances are designed to scale vertically and horizontally.
Initialized using cloud-init for **immediate operation on boot** and integration with **devops** config. mgmt

cVu-V **forwards** traffic to **downstream** tools encapsulated in VxLAN.

cVu-V **replicates** packets to tools that provide different functionality - i.e. storage,security, custom financial use cases
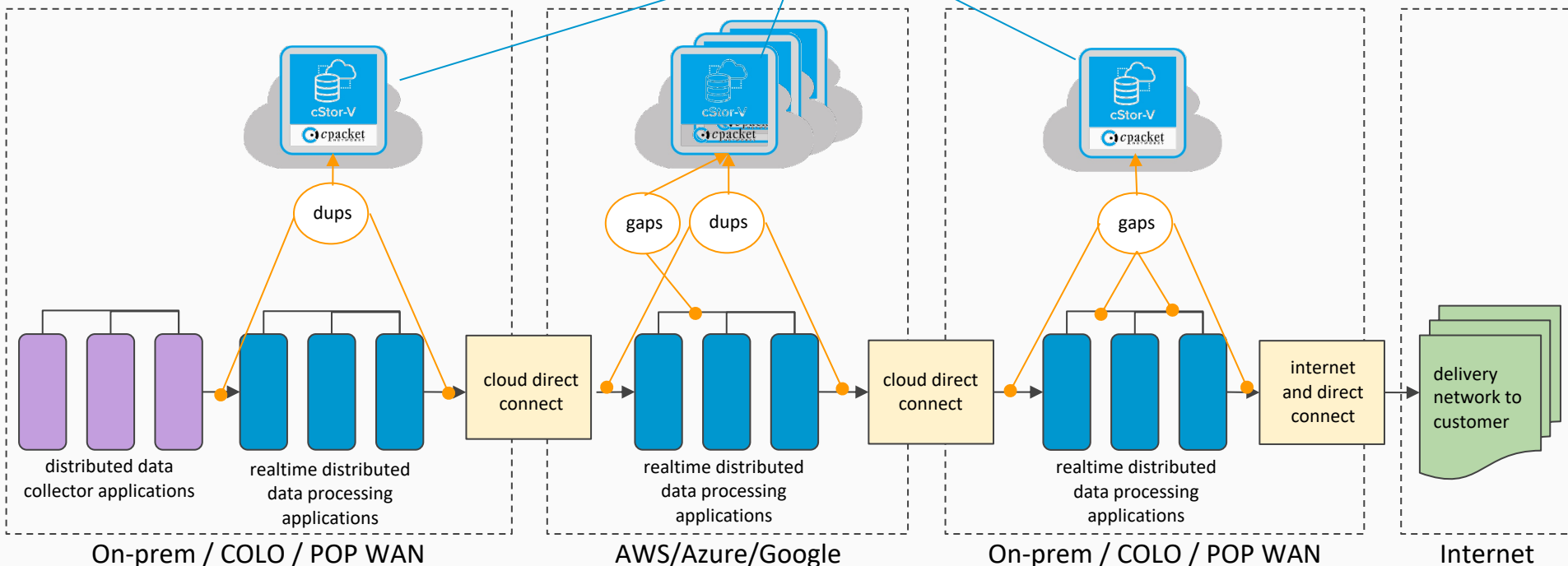
cStor-V performs **real-time analytics as packets arrive** : provides **search and download APIs** for accessing raw packets or metadata

VM VM VM

VM VM

cVu-V
Packet Broker
(Inline Mode)

cVu-V
Packet Broker
(End-Point Mode)

vxlan

vxlan

cClear-V
Analytics, Provisioning,
and Management

cStor-V
Packet Capture
and Analysis

Tools that process packet
and analytics output

cpacket
NETWORKS
VISIBILITY YOU CAN TRUST

cCloud™ Visibility Suite

Analyzing a distributed, real-time data processing and delivery application (financial services)

Last 3 hours

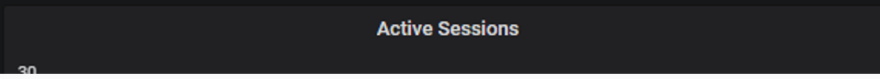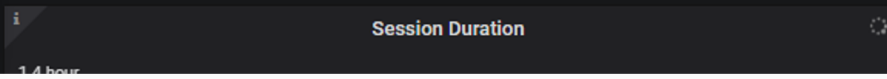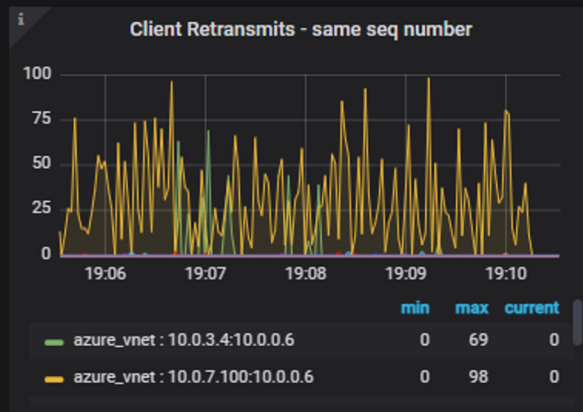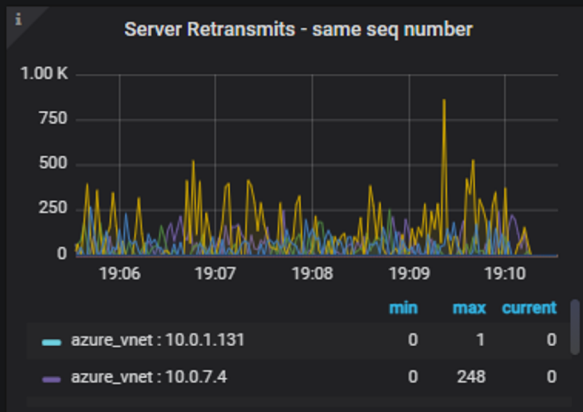| AWS Server ...	AWS Server ...	AWS Client R...	AWS Zero Wi...	AWS Server ...	AWS Client R...	AWS Asymm...	AWS Syn Fail...
10.6 ms	13.2 ms	66.2 ms	0	0	111 K	0	0

DMZ Server ...	DMZ Server ...	DMZ Client R...	DMZ Zero Wi...	DMZ Server ...	DMZ Client R...	DMZ Asymm...	DMZ Syn Fail...
29.4 ms	70.6 ms	224 ms	3	22.1 K	9.367 K	1.106 K	1.106 K

LAB Server R...	LAB Server R...	LAB Client R...	LAB Zero Wi...	LAB Server R...	LAB Client R...	LAB Asymm...	LAB Syn Fail...
115 ms	134 ms	74.6 ms	3101	1.463 Mil	187 K	2	2

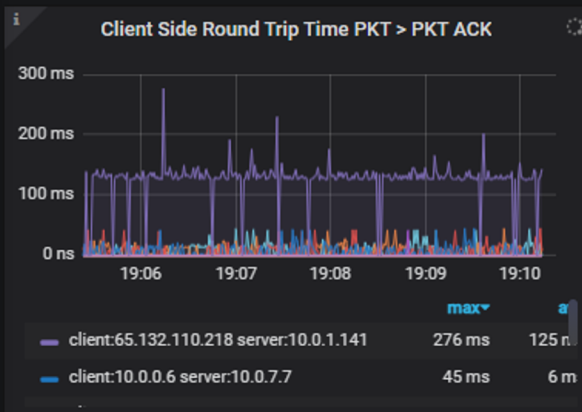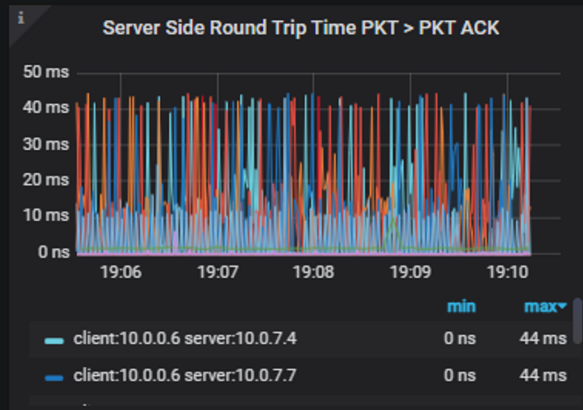| NAT Server R...	NAT Server R...	NAT Client R...	NAT Zero Wi...	NAT Server R...	NAT Client R...	NAT Asymm...	NAT Syn Fail...
223 ms	325 ms	293 ms	364	1.022 Mil	9.264 K	6	6

Last 5 minutes ⌄ | 10s ⌄

azure_vnet : 10.0.1.141 | 0 B | 6 MB

Server Side Round Trip Time

5 ms
4 ms
3 ms
2 ms
1 ms
0 ns

19:06 19:07 19:08 19:09 19:10

	min	max	avg
persecond.mean	0 ns	4.4 ms	1.3 ms

Server Response Time - SYN > SYN ACK

6 ms
4 ms
2 ms
0 ns

19:06 19:07 19:08 19:09 19:10

	min	max
client:10.0.1.141 server:52.239.173.4	427 µs	5.3 m.
client:10.0.1.141 server:10.0.1.151	960 µs	1.3 ms

Server Side Round Trip Time PKT > PKT ACK

50 ms
40 ms
30 ms
20 ms
10 ms
0 ns

19:06 19:07 19:08 19:09 19:10

	min	max⌄
client:10.0.0.6 server:10.0.7.4	0 ns	44 ms
client:10.0.0.6 server:10.0.7.7	0 ns	44 ms

Client Side Round Trip Time PKT > PKT ACK

300 ms
200 ms
100 ms
0 ns

19:06 19:07 19:08 19:09 19:10

	max⌄	a
client:65.132.110.218 server:10.0.1.141	276 ms	125 n.
client:10.0.0.6 server:10.0.7.7	45 ms	6 m

Server Retransmits - same seq number

1.00 K
750
500
250
0

19:06 19:07 19:08 19:09 19:10

	min	max	current
azure_vnet : 10.0.1.131	0	1	0
azure_vnet : 10.0.7.4	0	248	0

Client Retransmits - same seq number

100
75
50
25
0

19:06 19:07 19:08 19:09 19:10

	min	max	current
azure_vnet : 10.0.3.4:10.0.0.6	0	69	0
azure_vnet : 10.0.7.100:10.0.0.6	0	98	0

Session Duration

1.4 hour

Active Sessions

30

cCloud appliance metrics

cVu-V CPU (azure monitor)

- aidsinga-cvuv-1.Percentage CPU
- aidsinga-cvuv-2.Percentage CPU
- aidsinga-cvuv-3.Percentage CPU

cClear-1 CPU (azure monitor)

- aidsinga-cclear-1.Percentage CPU

cStor-1 CPU (azure monitor)

- aidsinga-cstor-1.Percentage CPU
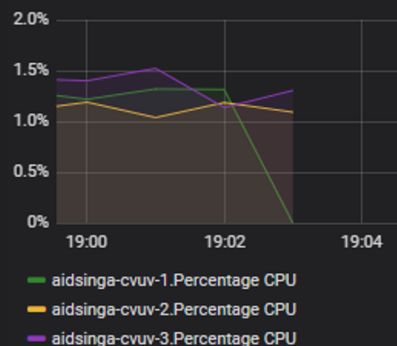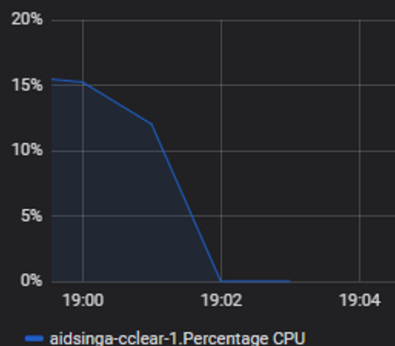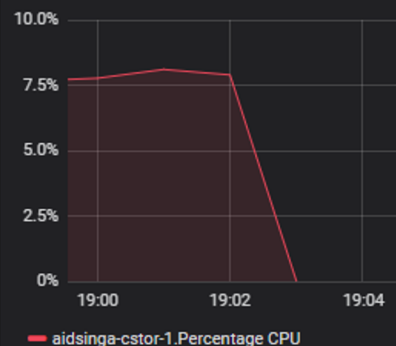
cStor-1 disk (azure monitor)

- aidsinga-cstor-1.Data Disk Write Bytes/Sec
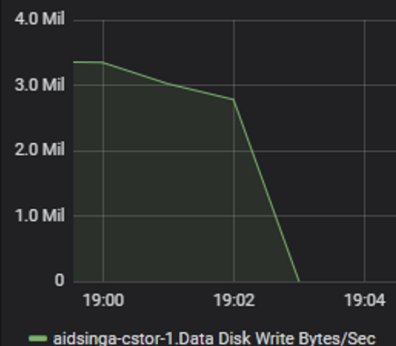
cVu-V VxLAN ports
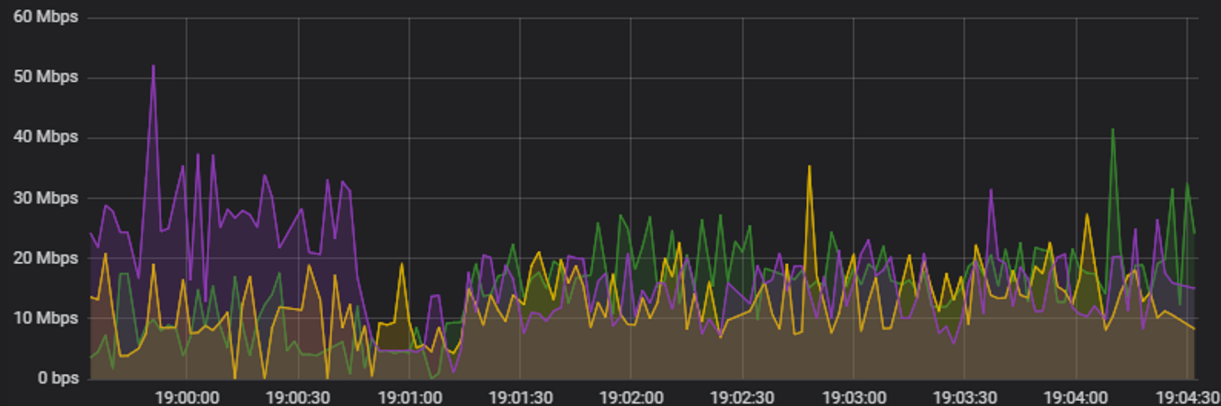
	current
cVu-V: 10.0.1.129 Port: cvuv_net_dev_vxlan0	24.2 Mbps
cVu-V: 10.0.1.130 Port: cvuv_net_dev_vxlan0	8.3 Mbps
cVu-V: 10.0.1.131 Port: cvuv_net_dev_vxlan0	15.0 Mbps
cVu-V: 10.0.1.129 Port: cvuv_net_dev_vxlan1	24.2 Mbps
cVu-V: 10.0.1.130 Port: cvuv_net_dev_vxlan1	8.3 Mbps
cVu-V: 10.0.1.131 Port: cvuv_net_dev_vxlan1	15.0 Mbps

Thank You