

Formal TCP packet has loss the body data.

In boto3tos3.pcapng, you can see the TCP flow has no HTTP PUT data 'aaaaa'.

16	2.269133	192.168.36.37	192.168.40.223	TCP	66 60452 → 9098 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
17	2.273650	192.168.40.223	192.168.36.37	TCP	66 9098 → 60452 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 SACK_PERM=1 WS=8192
18	2.273875	192.168.36.37	192.168.40.223	TCP	54 60452 → 9098 [ACK] Seq=1 Ack=1 Win=131328 Len=0
19	2.274180	192.168.36.37	192.168.40.223	TCP	635 60452 → 9098 [PSH, ACK] Seq=1 Ack=1 Win=131328 Len=581 [TCP segment of a reassembled PDU]
20	2.278535	192.168.40.223	192.168.36.37	TCP	60 9098 → 60452 [ACK] Seq=1 Ack=582 Win=67108864 Len=0
21	2.279680	192.168.40.223	192.168.36.37	HTTP	71 HTTP/1.1 100
22	2.280600	192.168.36.37	192.168.40.223	TCP	54 60452 → 9098 [FIN, ACK] Seq=582 Ack=18 Win=131328 Len=0
23	2.331936	192.168.40.223	192.168.36.37	HTTP/X.	489 HTTP/1.1 500
24	2.331936	192.168.40.223	192.168.36.37	TCP	60 9098 → 60452 [FIN, ACK] Seq=453 Ack=583 Win=67108864 Len=0

PUT /hos/test2/test.txt HTTP/1.1

Host: 192.168.40.223:9098

Accept-Encoding: identity

User-Agent: Boto3/1.15.5 Python/3.6.8 Windows/10 Botocore/1.18.5

Content-MD5: WU+AOzgKQTlu1j3KOVA1Qg==

Expect: 100-continue

X-Amz-Date: 20201016T070056Z

X-Amz-Content-SHA256: ed968e840d10d2d313a870bc131a4e2c311d7ad09bdf32b3418147221f51a6e2

Authorization: AWS4-HMAC-SHA256 Credential=default/20201016/us-east-1/s3/aws4_request,

SignedHeaders=content-md5;host;x-amz-content-sha256;x-amz-date,

Signature=2cf3d80fbe510938cd39155cde528c9e566b35cb66e998ce430c1a166234da42

Content-Length: 5

HTTP/1.1 100

HTTP/1.1 500

Content-Type: application/xml; charset=UTF-8

Content-Length: 296

Date: Fri, 16 Oct 2020 07:00:55 GMT

Connection: close

<?xml version="1.0" encoding="UTF-8"?>

<Error>

<Code>InternalServerError</Code>

<Message>We encountered an internal error. Please try again.</Message>

<RequestId>b61ece7085934bfffad837772b2609be0</RequestId>

<Resource>/test2/test.txt</Resource>

<HostId>192.168.1.3</HostId>

</Error>

In transimissiontos3.pcapng, you can see the TCP flow has HTTP PUT data 'aaaaa'

4	4.287398	10.6.28.246	192.168.40.223	TCP	66 60786 → 9098 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
5	4.380601	192.168.40.223	10.6.28.246	TCP	66 9098 → 60786 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1355 SACK_PERM=1 WS=8192
6	4.380843	10.6.28.246	192.168.40.223	TCP	54 60786 → 9098 [ACK] Seq=1 Ack=1 Win=131328 Len=0
7	4.381232	10.6.28.246	192.168.40.223	TCP	635 60786 → 9098 [PSH, ACK] Seq=1 Ack=1 Win=131328 Len=581 [TCP segment of a reassembled PDU]
8	4.682777	10.6.28.246	192.168.40.223	TCP	635 [TCP Retransmission] 60786 → 9098 [PSH, ACK] Seq=1 Ack=1 Win=131328 Len=581
9	5.023848	10.6.28.246	192.168.40.223	TCP	635 [TCP Retransmission] 60786 → 9098 [PSH, ACK] Seq=1 Ack=1 Win=131328 Len=581
10	5.382068	10.6.28.246	192.168.40.223	HTTP	59 PUT /hos/test2/test.txt HTTP/1.1
11	5.393384	192.168.40.223	10.6.28.246	TCP	66 [TCP Retransmission] 9098 → 60786 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1355 SACK_PERM=1 WS=8192
12	5.393407	10.6.28.246	192.168.40.223	TCP	66 [TCP Dup ACK 6#1] 60786 → 9098 [ACK] Seq=587 Ack=1 Win=131328 Len=0 SLE=0 SRE=1
13	5.623385	10.6.28.246	192.168.40.223	TCP	640 [TCP Retransmission] 60786 → 9098 [PSH, ACK] Seq=1 Ack=1 Win=131328 Len=586
14	6.824170	10.6.28.246	192.168.40.223	TCP	590 [TCP Retransmission] 60786 → 9098 [ACK] Seq=1 Ack=1 Win=131328 Len=536
15	7.584675	192.168.40.223	10.6.28.246	TCP	66 [TCP Retransmission] 9098 → 60786 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1355 SACK_PERM=1 WS=8192
16	7.584694	10.6.28.246	192.168.40.223	TCP	66 60786 → 9098 [ACK] Seq=537 Ack=1 Win=131328 Len=0 SLE=0 SRE=1
17	8.024819	10.6.28.246	192.168.40.223	TCP	590 [TCP Retransmission] 60786 → 9098 [ACK] Seq=1 Ack=1 Win=131328 Len=536
18	9.225054	10.6.28.246	192.168.40.223	TCP	640 [TCP Retransmission] 60786 → 9098 [PSH, ACK] Seq=1 Ack=1 Win=131328 Len=586
21	11.581719	192.168.40.223	10.6.28.246	TCP	66 [TCP Retransmission] 9098 → 60786 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1355 SACK_PERM=1 WS=8192
22	11.581762	10.6.28.246	192.168.40.223	TCP	66 [TCP Dup ACK 6#2] 60786 → 9098 [ACK] Seq=587 Ack=1 Win=131328 Len=0 SLE=0 SRE=1
23	11.626561	10.6.28.246	192.168.40.223	TCP	640 [TCP Retransmission] 60786 → 9098 [PSH, ACK] Seq=1 Ack=1 Win=131328 Len=586
25	14.710931	192.168.40.223	10.6.28.246	TCP	54 9098 → 60786 [ACK] Seq=1 Ack=587 Win=67108864 Len=0
26	14.965443	192.168.40.223	10.6.28.246	HTTP	71 HTTP/1.1 100
29	15.006670	10.6.28.246	192.168.40.223	TCP	54 60786 → 9098 [ACK] Seq=587 Ack=18 Win=131328 Len=0
30	15.700579	192.168.40.223	10.6.28.246	HTTP	172 HTTP/1.1 200
31	15.735497	10.6.28.246	192.168.40.223	TCP	54 60786 → 9098 [FIN, ACK] Seq=587 Ack=136 Win=131072 Len=0
32	15.953240	192.168.40.223	10.6.28.246	TCP	54 9098 → 60786 [FIN, ACK] Seq=136 Ack=588 Win=67108864 Len=0
33	15.953330	10.6.28.246	192.168.40.223	TCP	54 60786 → 9098 [ACK] Seq=588 Ack=137 Win=131072 Len=0
35	17.748262	192.168.40.223	10.6.28.246	TCP	54 [TCP Retransmission] 9098 → 60786 [FIN, ACK] Seq=136 Ack=588 Win=67108864 Len=0
36	17.748349	10.6.28.246	192.168.40.223	TCP	54 [TCP ZeroWindow] 60786 → 9098 [ACK] Seq=588 Ack=137 Win=0 Len=0
37	20.663634	192.168.40.223	10.6.28.246	TCP	54 [TCP Retransmission] 9098 → 60786 [FIN, ACK] Seq=136 Ack=588 Win=67108864 Len=0
38	20.663698	10.6.28.246	192.168.40.223	TCP	54 [TCP ZeroWindow] 60786 → 9098 [ACK] Seq=588 Ack=137 Win=0 Len=0
39	25.783953	192.168.40.223	10.6.28.246	TCP	54 9098 → 60786 [RST] Seq=137 Win=0 Len=0
40	25.902626	192.168.40.223	10.6.28.246	TCP	54 9098 → 60786 [RST] Seq=137 Win=0 Len=0

```
PUT /hos/test2/test.txt HTTP/1.1
Host: 192.168.40.223:9098
Accept-Encoding: identity
User-Agent: Boto3/1.15.5 Python/3.6.8 Windows/10 Botocore/1.18.5
Content-MD5: WU+AOzgKQTlu1j3KOVA1Qg==
Expect: 100-continue
X-Amz-Date: 20201016T071038Z
X-Amz-Content-SHA256: ed968e840d10d2d313a870bc131a4e2c311d7ad09bdf32b3418147221f51a6e2
Authorization: AWS4-HMAC-SHA256 Credential=default/20201016/us-east-1/s3/aws4_request,
SignedHeaders=content-md5;host;x-amz-content-sha256;x-amz-date,
Signature=679ac5882d57dd44741c9cfee31a866959df10b4a7fe521558936855f9b51d91
Content-Length: 5
```

```
aaaaaHTTP/1.1 100
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HTTP/1.1 200
Content-Type: application/xml;charset=UTF-8
Content-Length: 0
Date: Fri, 16 Oct 2020 07:10:47 GMT
```