验证流量传感器NetFlow模板和信息元素

目录

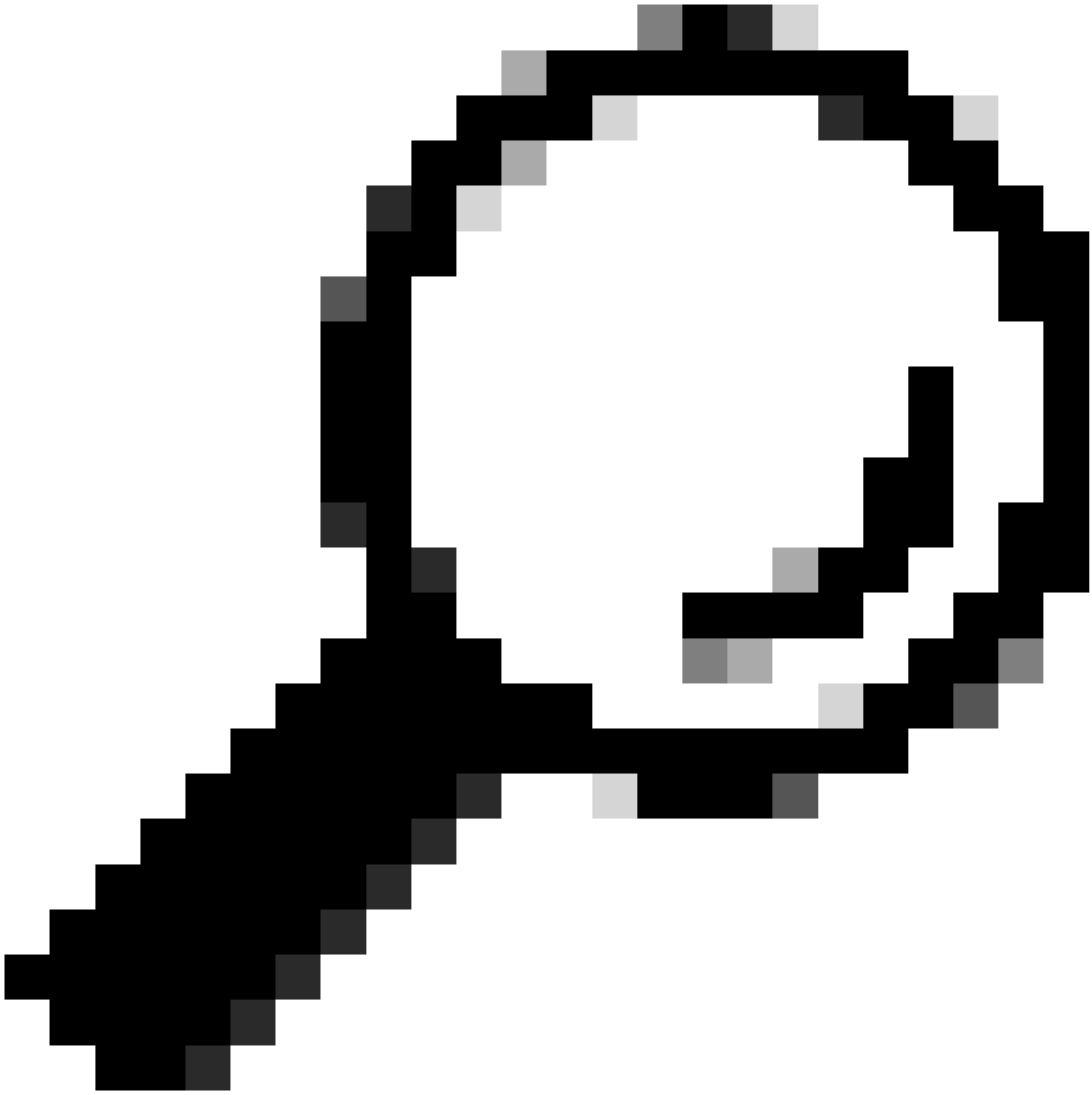
简介

本文档介绍SNA流量传感器使用的NetFlow模板，其中包括有关企业特定元素的信息。

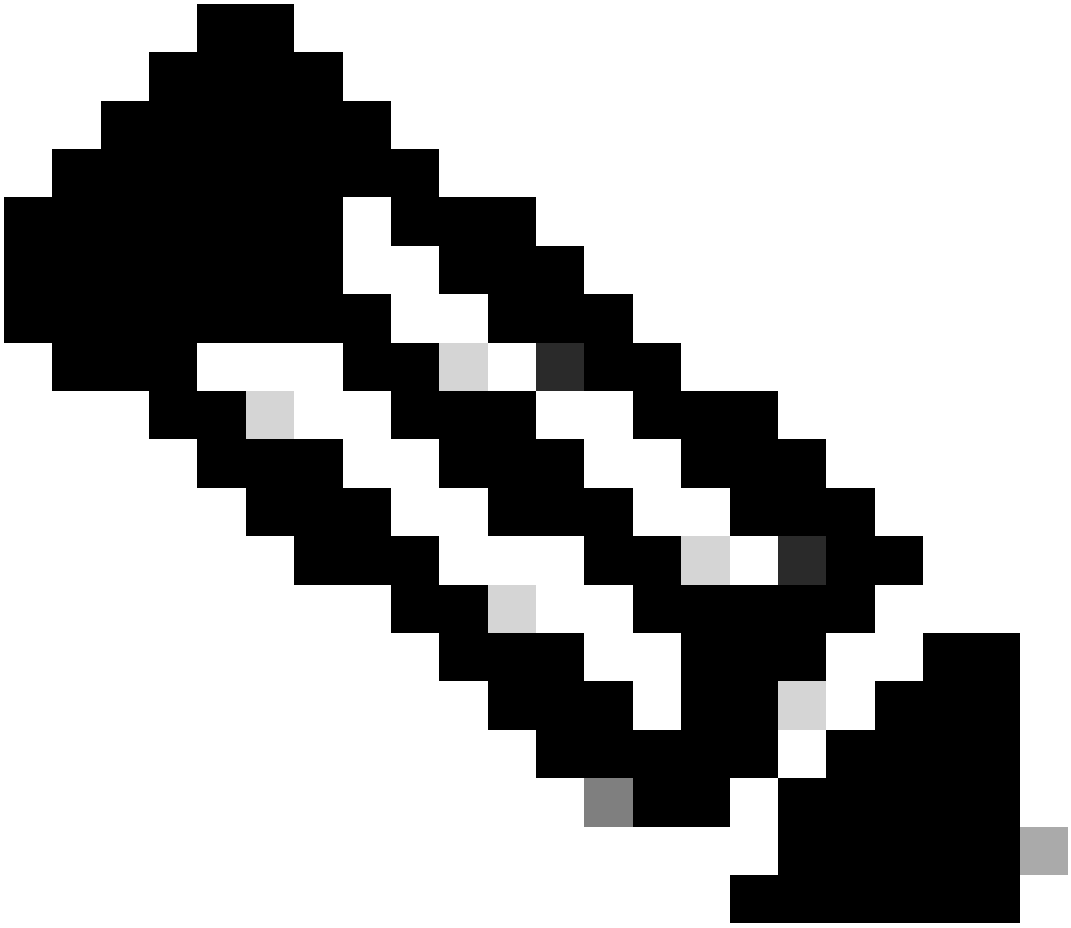
先决条件

此处使用的NetFlow元素ID是标准NetFlow协议，但模板信息以及每个模板中包含的元素可能会随时更改。

模板ID



提示：从SNA版本7.3开始，流量传感器似乎默认只发送模板ID 335-352，即IPFIX模板。所有IPFIX模板每60秒一起发送一次，无论流量传感器的监控端口看到的流量类型如何（例如IPv4与IPv6）。



注意：旁边带星号(*)的模板包含IANA列表中用于标准流创建和分析的基本NetFlow v9/IPFIX字段。

```
IPV4_FIRST_FLOW_TEMPLATE_ID                    317*
IPV4_FIRST_FLOW_DEEP_TEMPLATE_ID              318*
IPV4_FLOW_TEMPLATE_ID                          319*
IPV4_EVENT_TEMPLATE_ID                         320
IPV6_FIRST_FLOW_TEMPLATE_ID                    321*
IPV6_FIRST_FLOW_DEEP_TEMPLATE_ID              322*
IPV6_FLOW_TEMPLATE_ID                          323*
IPV6_EVENT_TEMPLATE_ID                         324
IPV4_SRC_EMAIL_COUNTS_TEMPLATE_ID              325
IPV4_FIRST_FLOW_RTM_TEMPLATE_ID                326*
IPV4_FIRST_FLOW_DEEP_RTM_TEMPLATE_ID          327*
IPV4_FLOW_RTM_TEMPLATE_ID                      328*
IPV6_FIRST_FLOW_RTM_TEMPLATE_ID                329*
IPV6_FIRST_FLOW_DEEP_RTM_TEMPLATE_ID          330*
IPV6_FLOW_RTM_TEMPLATE_ID                      331*
IPV4_DST_EMAIL_COUNTS_TEMPLATE_ID              332
IPV6_SRC_EMAIL_COUNTS_TEMPLATE_ID              333
IPV6_DST_EMAIL_COUNTS_TEMPLATE_ID              334
```

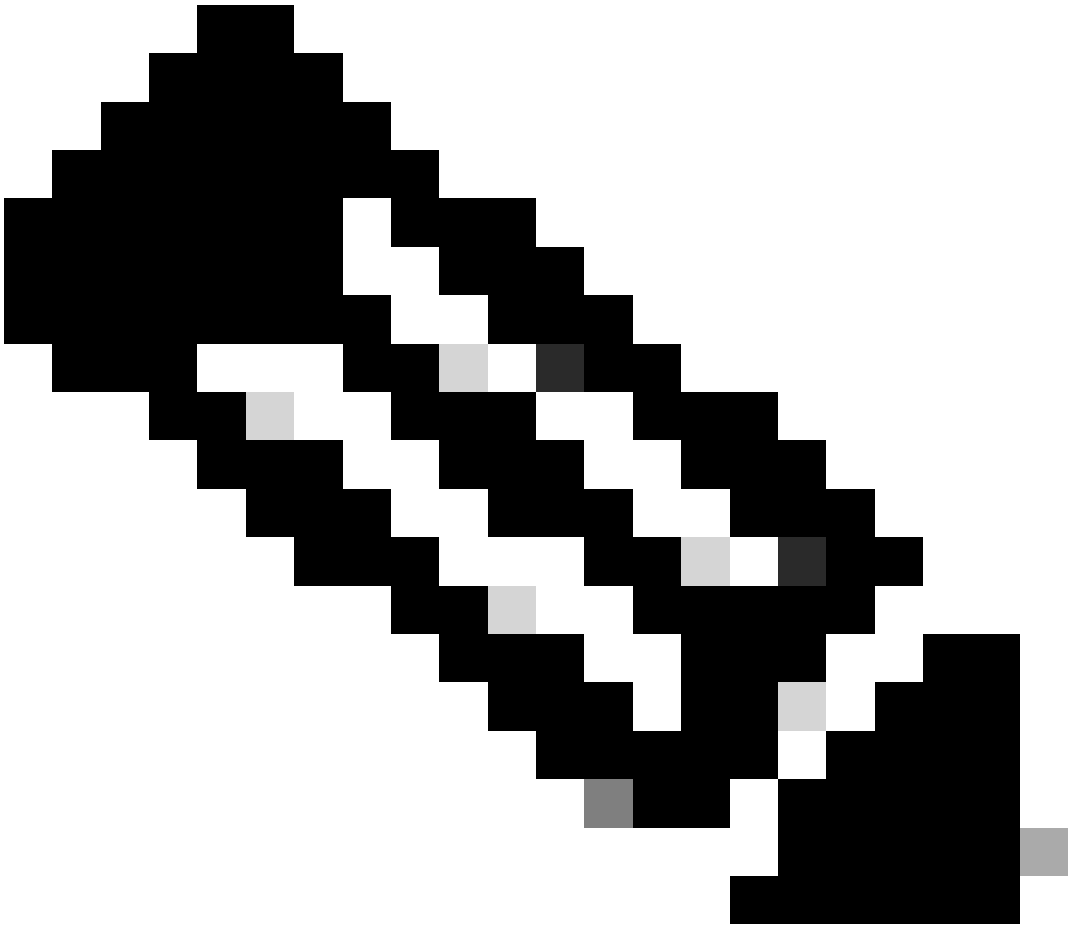
IPV4_FIRST_FLOW_IPFIX_TEMPLATE_ID	335*
IPV4_FIRST_FLOW_DEEP_IPFIX_TEMPLATE_ID	336*
IPV4_FLOW_IPFIX_TEMPLATE_ID	337*
IPV4_EVENT_IPFIX_TEMPLATE_ID	338
IPV6_FIRST_FLOW_IPFIX_TEMPLATE_ID	339*
IPV6_FIRST_FLOW_DEEP_IPFIX_TEMPLATE_ID	340*
IPV6_FLOW_IPFIX_TEMPLATE_ID	341*
IPV6_EVENT_IPFIX_TEMPLATE_ID	342
IPV4_SRC_EMAIL_COUNTS_IPFIX_TEMPLATE_ID	343
IPV4_FIRST_FLOW_RTM_IPFIX_TEMPLATE_ID	344*
IPV4_FIRST_FLOW_DEEP_RTM_IPFIX_TEMPLATE_ID	345*
IPV4_FLOW_RTM_IPFIX_TEMPLATE_ID	346*
IPV6_FIRST_FLOW_RTM_IPFIX_TEMPLATE_ID	347*
IPV6_FIRST_FLOW_DEEP_RTM_IPFIX_TEMPLATE_ID	348*
IPV6_FLOW_RTM_IPFIX_TEMPLATE_ID	349*
IPV4_DST_EMAIL_COUNTS_IPFIX_TEMPLATE_ID	350
IPV6_SRC_EMAIL_COUNTS_IPFIX_TEMPLATE_ID	351
IPV6_DST_EMAIL_COUNTS_IPFIX_TEMPLATE_ID	352
IPV4_ETTA_IDP_TEMPLATE_ID	353
IPV4_ETTA_IDP_IPFIX_TEMPLATE_ID	354
IPV4_ETTA_SPLT_TEMPLATE_ID	355
IPV4_ETTA_SPLT_IPFIX_TEMPLATE_ID	356
IPV4_ETTA_BD_TEMPLATE_ID	357
IPV4_ETTA_BD_IPFIX_TEMPLATE_ID	358
IPV4_ETTA_TLS_TEMPLATE_ID	359
IPV4_ETTA_TLS_IPFIX_TEMPLATE_ID	360
IPV4_ETTA_SALT_TEMPLATE_ID	361
IPV4_ETTA_SALT_IPFIX_TEMPLATE_ID	362
IPV6_ETTA_IDP_TEMPLATE_ID	363
IPV6_ETTA_IDP_IPFIX_TEMPLATE_ID	364
IPV6_ETTA_SPLT_TEMPLATE_ID	365
IPV6_ETTA_SPLT_IPFIX_TEMPLATE_ID	366
IPV6_ETTA_BD_TEMPLATE_ID	367
IPV6_ETTA_BD_IPFIX_TEMPLATE_ID	368
IPV6_ETTA_TLS_TEMPLATE_ID	369
IPV6_ETTA_TLS_IPFIX_TEMPLATE_ID	370
IPV6_ETTA_SALT_TEMPLATE_ID	371
IPV6_ETTA_SALT_IPFIX_TEMPLATE_ID	372

标准NetFlow元素

NF_F_IN_BYTES	1
NF_F_IN_PKTS	2
NF_F_PROTOCOL	4
NF_F_SRC_TOS	5
NF_F_TCP_FLAGS	6
NF_F_L4_SRC_PORT	7
NF_F_SRC_ADDR_IPV4	8
NF_F_SRC_INTF_ID	10
NF_F_L4_DST_PORT	11
NF_F_DST_ADDR_IPV4	12
NF_F_DST_INTF_ID	14
NF_F_LAST_SWITCHED	21
NF_F_FIRST_SWITCHED	22
NF_F_SRC_ADDR_IPV6	27
NF_F_DST_ADDR_IPV6	28
NF_F_MIN_TTL	52

```
NF_F_IN_SRC_MAC                                 56
NF_F_OUT_DST_MAC                               57
NF_F_SRC_VLAN                                   58
NF_F_MPLS_LABEL_1                               70
NF_F_SYSTEM_INIT_TIME_MILLISECONDS              160
NF_F_TCP_SYN_TOTAL_COUNT                       218
NF_F_TCP_FIN_TOTAL_COUNT                       219
NF_F_TCP_RST_TOTAL_COUNT                       220
NF_F_TCP_ACK_TOTAL_COUNT                       222
NF_F_IP_SECTION_HEADER                          313
NF_F_IP_SECTION_PAYLOAD                         314
```

企业特定元素

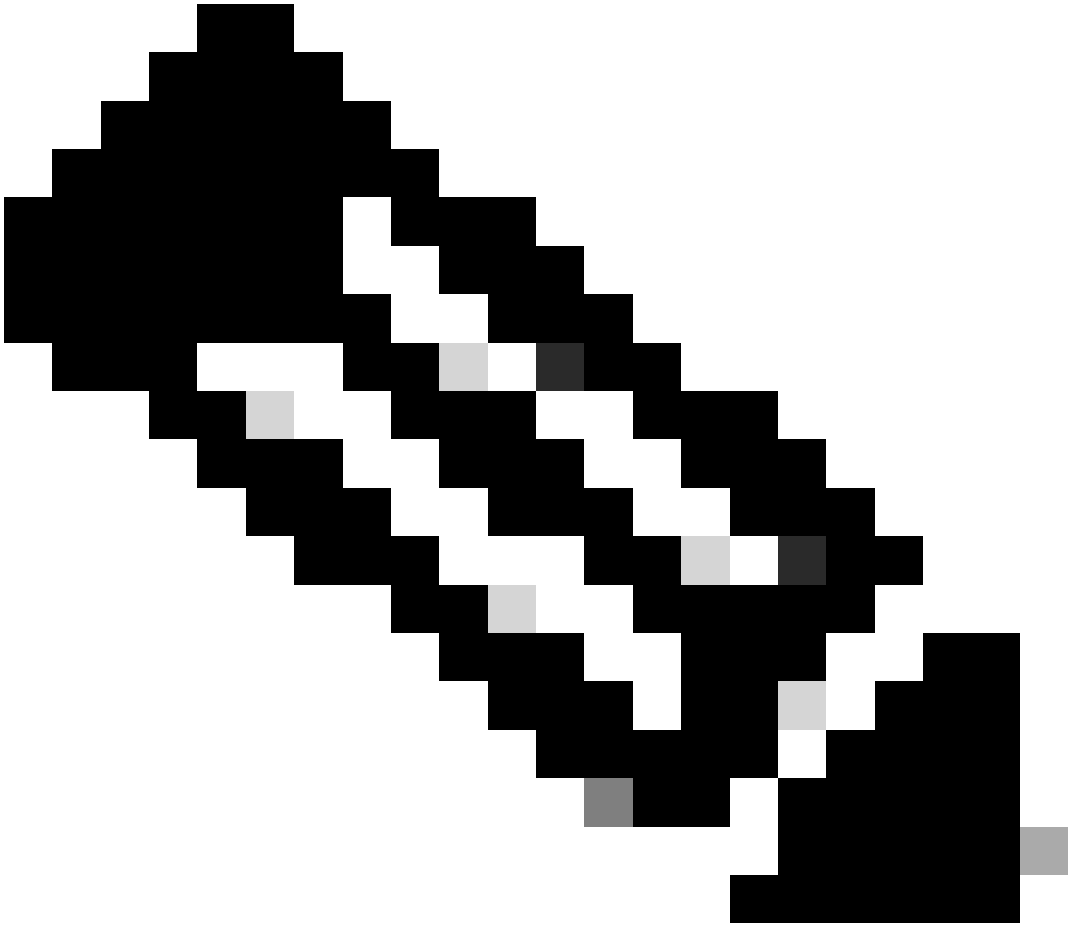


注：流量传感器使用Lancope信息元素标识符定义：私有企业编号(PEN) - 8712

有关这些元素的详细信息，请参阅安全分析信息元素指南

```
NF_F_FLOWSENSOR_INITIATOR                          29794
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT              29795
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT                  29796
NF_F_FLOWSENSOR_RTT                                  29797
NF_F_FLOWSENSOR_SVR_RESP                           29798
NF_F_FLOWSENSOR_RETRANSMITS                          29799
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT                  29800
NF_F_FLOWSENSOR_TCP_FRAG_TOTAL_COUNT               29801
NF_F_FLOWSENSOR_SRC_EMAIL_IN                       29802
NF_F_FLOWSENSOR_SRC_EMAIL_OUT                       29803
NF_F_FLOWSENSOR_SRC_EMAIL_IN_MESS                   29804
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_MESS                   29805
NF_F_FLOWSENSOR_SRC_EMAIL_IN_TRYS                   29806
NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRYS                   29807
NF_F_FLOWSENSOR_DST_EMAIL_IN                       29808
NF_F_FLOWSENSOR_DST_EMAIL_OUT                       29809
NF_F_FLOWSENSOR_DST_EMAIL_IN_MESS                   29810
NF_F_FLOWSENSOR_DST_EMAIL_OUT_MESS                   29811
NF_F_FLOWSENSOR_DST_EMAIL_IN_TRYS                   29812
NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYS                   29813
NF_F_FLOWSENSOR_TRACES                               29814
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL                   29817
NF_F_FLOWSENSOR_EMB_ICMP_TYPE                       29818
NF_F_FLOWSENSOR_EMB_ICMP_CODE                       29819
NF_F_FLOWSENSOR_APPLICATION_ID                       29820
NF_F_FLOWSENSOR_BAD_FLAG_XMAS                       29821
NF_F_FLOWSENSOR_BAD_FLAG_SYN_FIN                   29822
NF_F_FLOWSENSOR_BAD_FLAG_BAD_RST                   29823
NF_F_FLOWSENSOR_BAD_FLAG_NO_ACK                      29824
NF_F_FLOWSENSOR_BAD_FLAG_URG                       29825
NF_F_FLOWSENSOR_BAD_FLAG_NOFLAG                      29826
NF_F_FLOWSENSOR_BAD_TCP_PROBE                       29827
NF_F_FLOWSENSOR_SHORT_FRAG_ATTACK                   29828
NF_F_FLOWSENSOR_FRAG_PKT_TOO_SHORT                   29829
NF_F_FLOWSENSOR_FRAG_PKT_TOO_LONG                   29830
NF_F_FLOWSENSOR_FRAG_DIFFERENT_SIZES               29831
NF_F_FLOWSENSOR_APPLICATION_DETAILS                  29832
```

模板格式



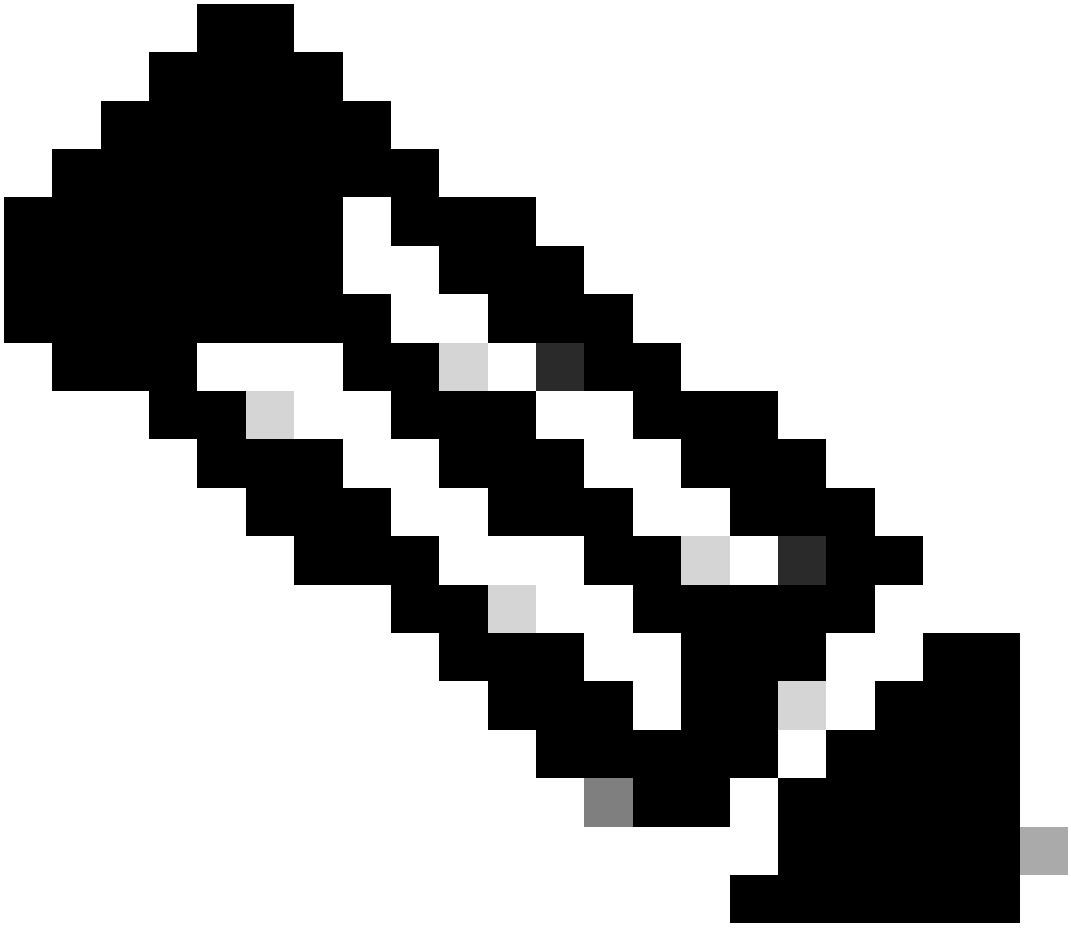
注意：每个模板都包含模板名称和字段计数，后跟各个NetFlow/IPFIX字段和每个字段的大小（以字节为单位）。

请注意，特定于企业的IPFIX元素使用0x8000进行定位以启用高位，因此收集器知道存在专用企业号(PEN)字段。

本示例包含NetFlow v9和企业特定的IPFIX元素。

```
TEMPLATE_NAME, ## <-- Field Count (Total number of NF_F fields in the template)
    FIELD_NAME_V9, # <-- Field size (in bytes)
    ENTERPRISE_FIELD_NAME_IPFIX | 0x8000, # <-- Field size (in bytes)
    0000, 8712 <-- Private Enterprise Number (PEN)
```

IPv4第一个流-模板317

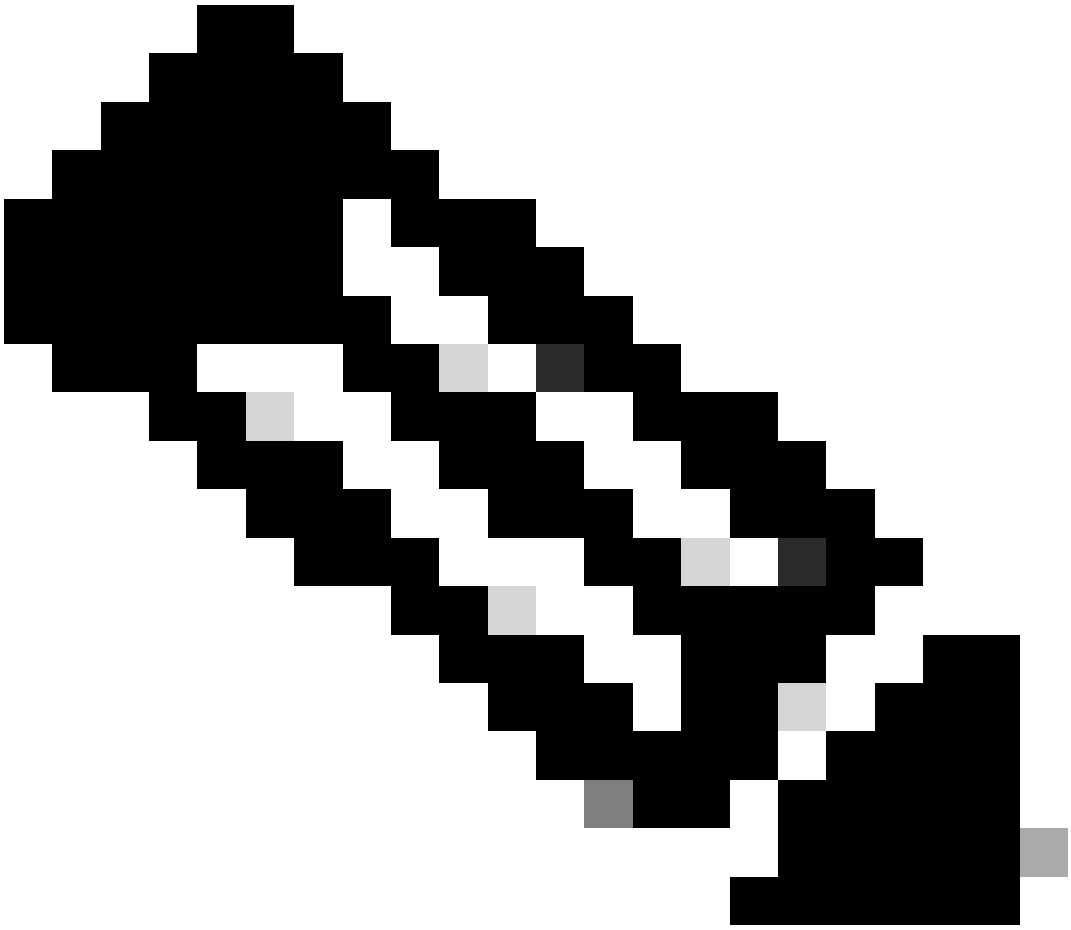


注意：此模板用于从流量传感器引擎的流插槽中初始v9导出IPv4流信息。

```
IPV4_FIRST_FLOW_TEMPLATE_ID, 31
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
    NF_F_MIN_TTL, 1
    NF_F_SRC_TOS, 1
```

```
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

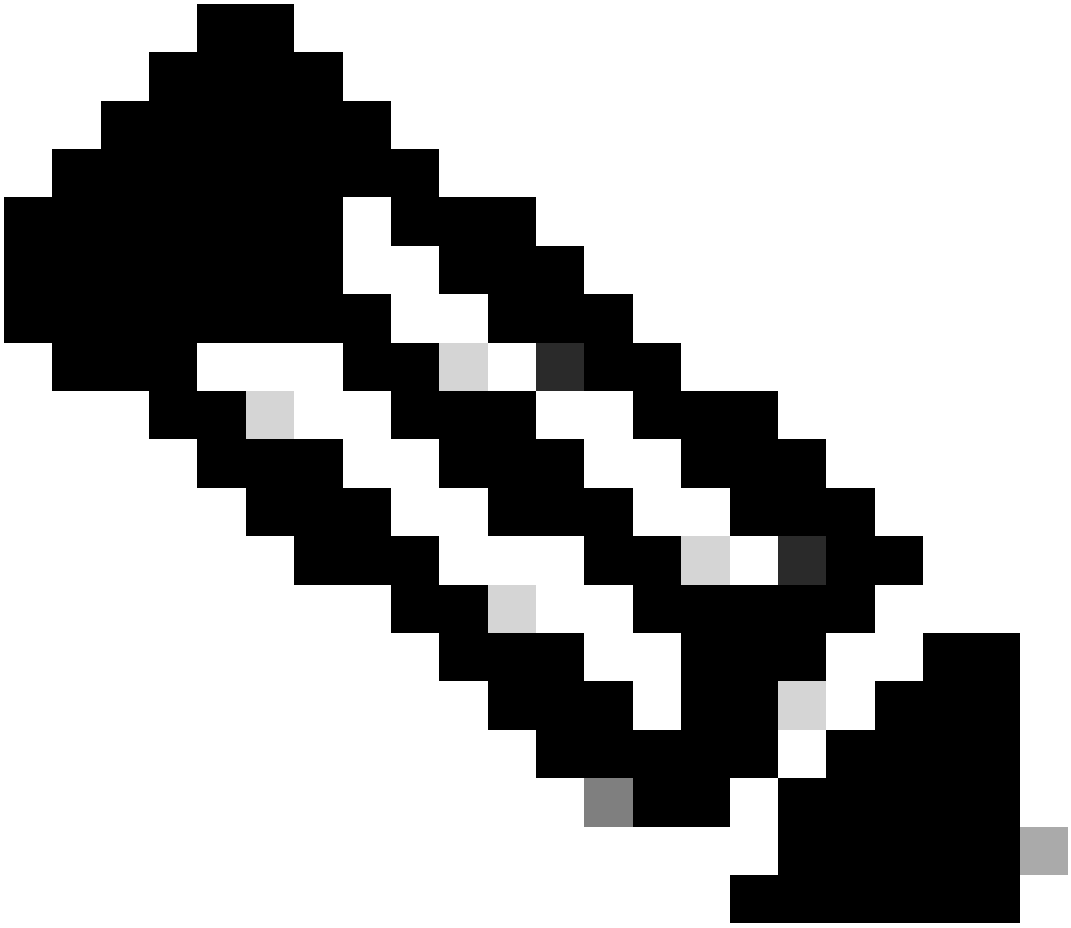
IPv4第一个流深度-模板318



注意：选中导出数据包负载(Export Packet Payload)复选框时，此模板用于从流量传感器引擎中的流插槽初始v9导出IPv4流信息。

```
IPV4_FIRST_FLOW_DEEP_TEMPLATE_ID, 33
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
    NF_F_MIN_TTL, 1
    NF_F_SRC_TOS, 1
    NF_F_IP_SECTION_HEADER, 64
    NF_F_IP_SECTION_PAYLOAD, 26
    NF_F_FLOWSENSOR_INITIATOR, 1
    NF_F_TCP_SYN_TOTAL_COUNT, 2
    NF_F_TCP_ACK_TOTAL_COUNT, 2
    NF_F_TCP_FIN_TOTAL_COUNT, 2
    NF_F_TCP_RST_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TRACES, 2
    NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
    NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
    NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
    NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

IPv4流-模板319

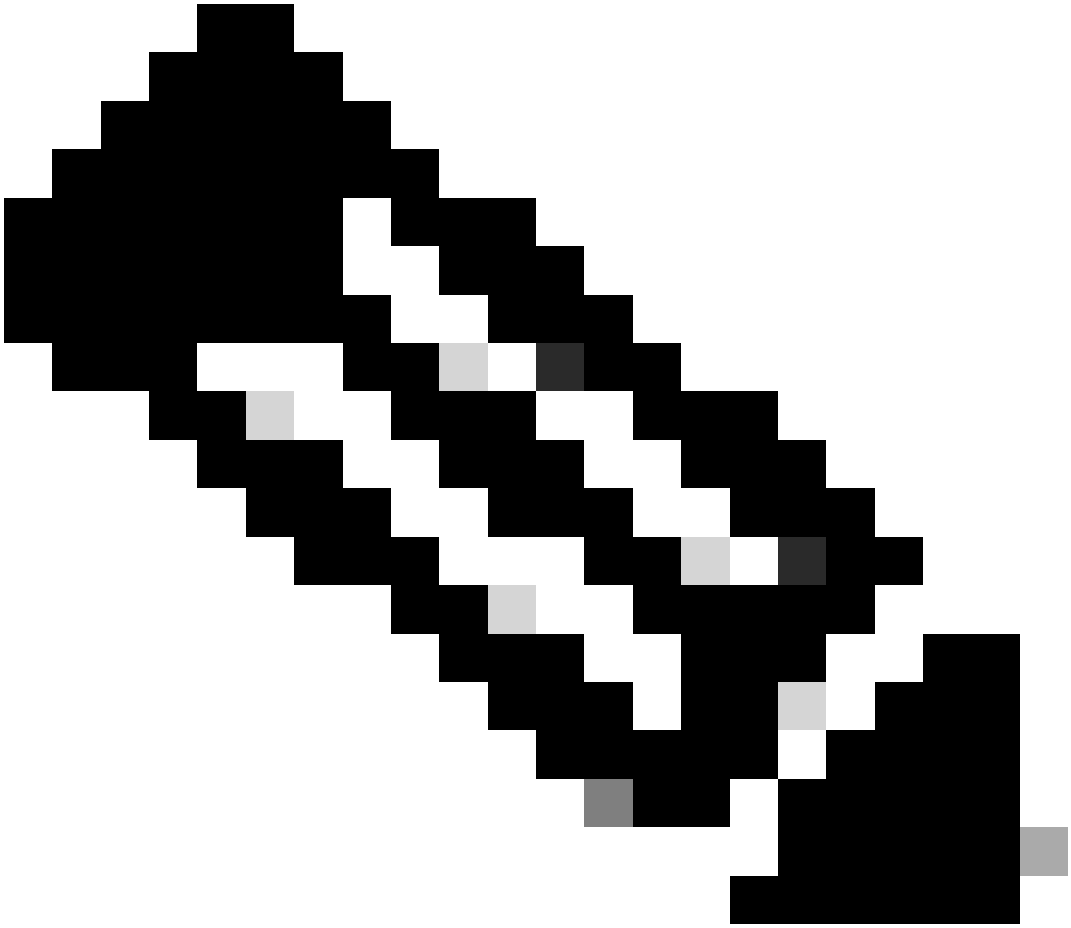


注意：此模板用于后续的v9从流量传感器引擎的流插槽中导出IPv4流信息。

```
IPV4_FLOW_TEMPLATE_ID, 25
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_MIN_TTL, 1
    NF_F_TCP_SYN_TOTAL_COUNT, 2
    NF_F_TCP_ACK_TOTAL_COUNT, 2
    NF_F_TCP_FIN_TOTAL_COUNT, 2
    NF_F_TCP_RST_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
```

```
    NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TRACES, 2
    NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
    NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
    NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
    NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

IPv4事件-模板320

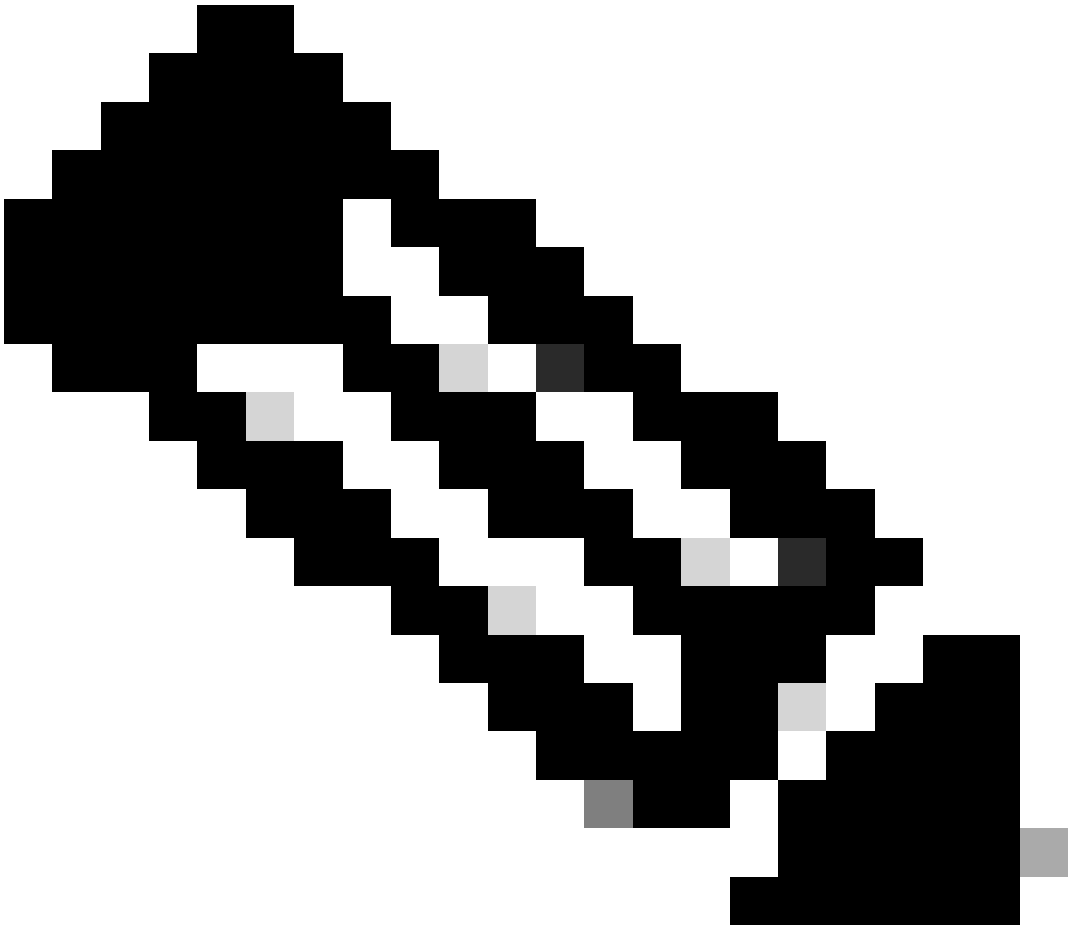


注意：此模板用于流量传感器引擎检测到的IPv4坏分段和标志组合计数的v9导出。

```
IPV4_EVENT_TEMPLATE_ID, 18
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
```

```
    NF_F_PROTOCOL, 1
    NF_F_FLOWSENSOR_BAD_FLAG_XMAS, 2
    NF_F_FLOWSENSOR_BAD_FLAG_SYN_FIN, 2
    NF_F_FLOWSENSOR_BAD_FLAG_BAD_RST, 2
    NF_F_FLOWSENSOR_BAD_FLAG_NO_ACK, 2
    NF_F_FLOWSENSOR_BAD_FLAG_URG, 2
    NF_F_FLOWSENSOR_BAD_FLAG_NOFLAG, 2
    NF_F_FLOWSENSOR_BAD_TCP_PROBE, 2
    NF_F_FLOWSENSOR_SHORT_FRAG_ATTACK, 2
    NF_F_FLOWSENSOR_FRAG_PKT_TOO_SHORT, 2
    NF_F_FLOWSENSOR_FRAG_PKT_TOO_LONG, 2
    NF_F_FLOWSENSOR_FRAG_DIFFERENT_SIZES, 2
```

IPv6第一个流-模板321

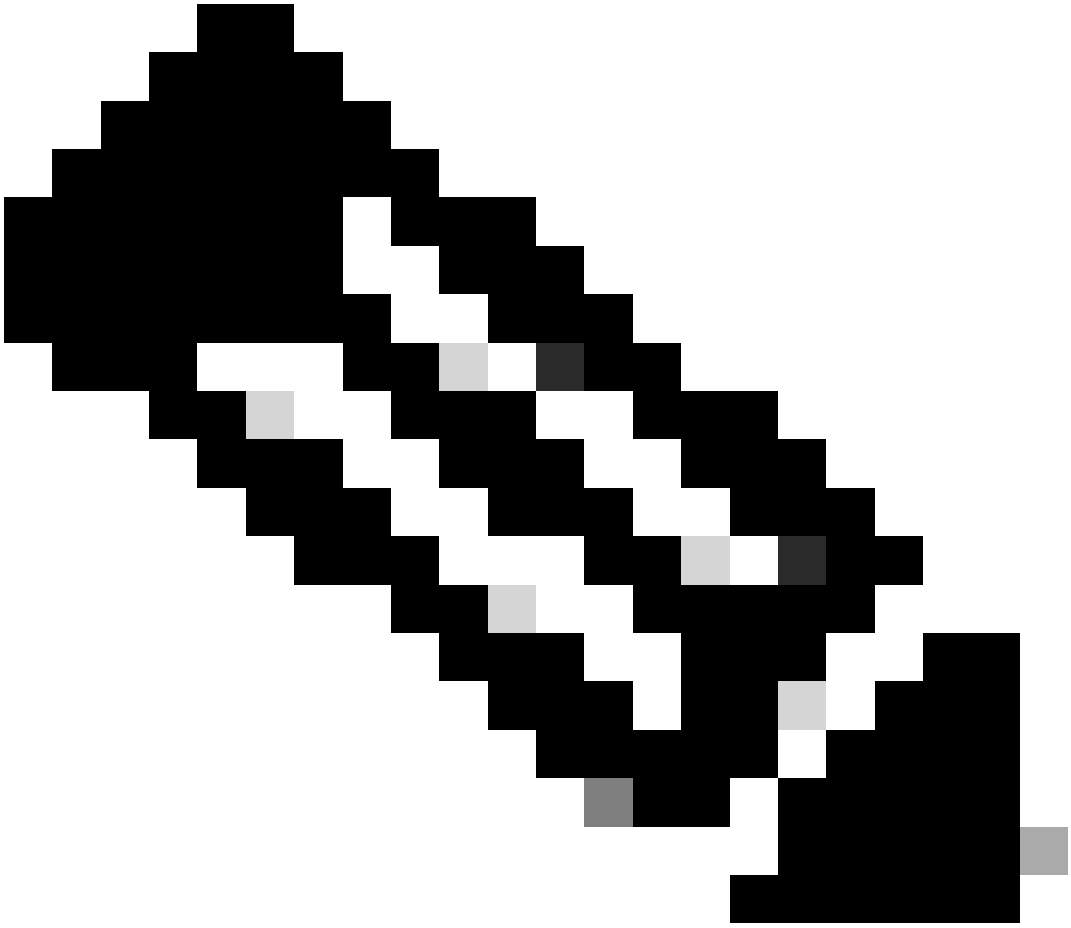


注意：此模板用于从流量传感器引擎的流插槽中初始v9导出IPv6流信息。

```
IPV6_FIRST_FLOW_TEMPLATE_ID, 31
    NF_F_FIRST_SWITCHED, 4
```

```
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

IPv6第一个流深度-模板322

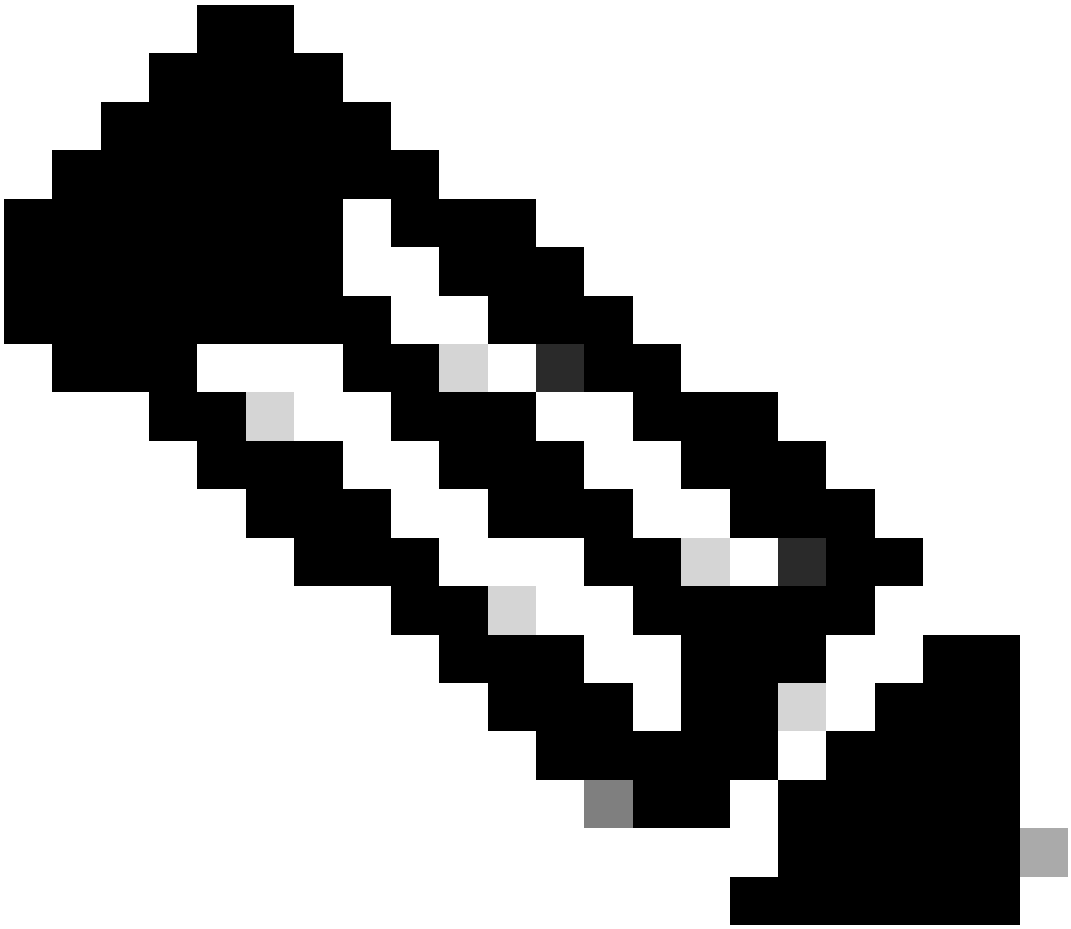


注意：选中导出数据包负载(Export Packet Payload)复选框时，此模板用于从流量传感器引擎中的流插槽初始v9导出IPv6流信息。

```
IPV6_FIRST_FLOW_DEEP_TEMPLATE_ID, 33
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
    NF_F_MIN_TTL, 1
```

```
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

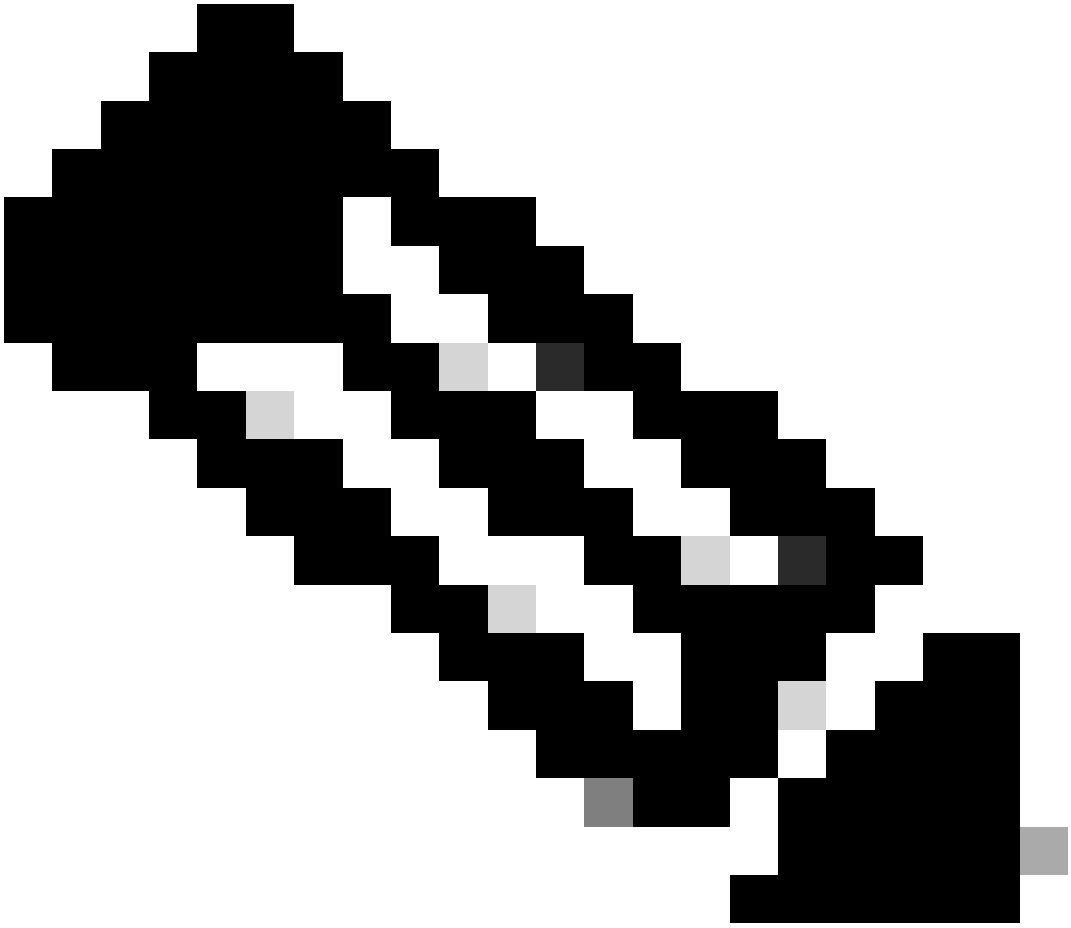
IPv6流-模板323



注意：此模板用于后续的v9从流量传感器引擎的流插槽中导出IPv6流信息。

```
IPV6_FLOW_TEMPLATE_ID, 25
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_MIN_TTL, 1
    NF_F_TCP_SYN_TOTAL_COUNT, 2
    NF_F_TCP_ACK_TOTAL_COUNT, 2
    NF_F_TCP_FIN_TOTAL_COUNT, 2
    NF_F_TCP_RST_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TRACES, 2
    NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
    NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
    NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
    NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

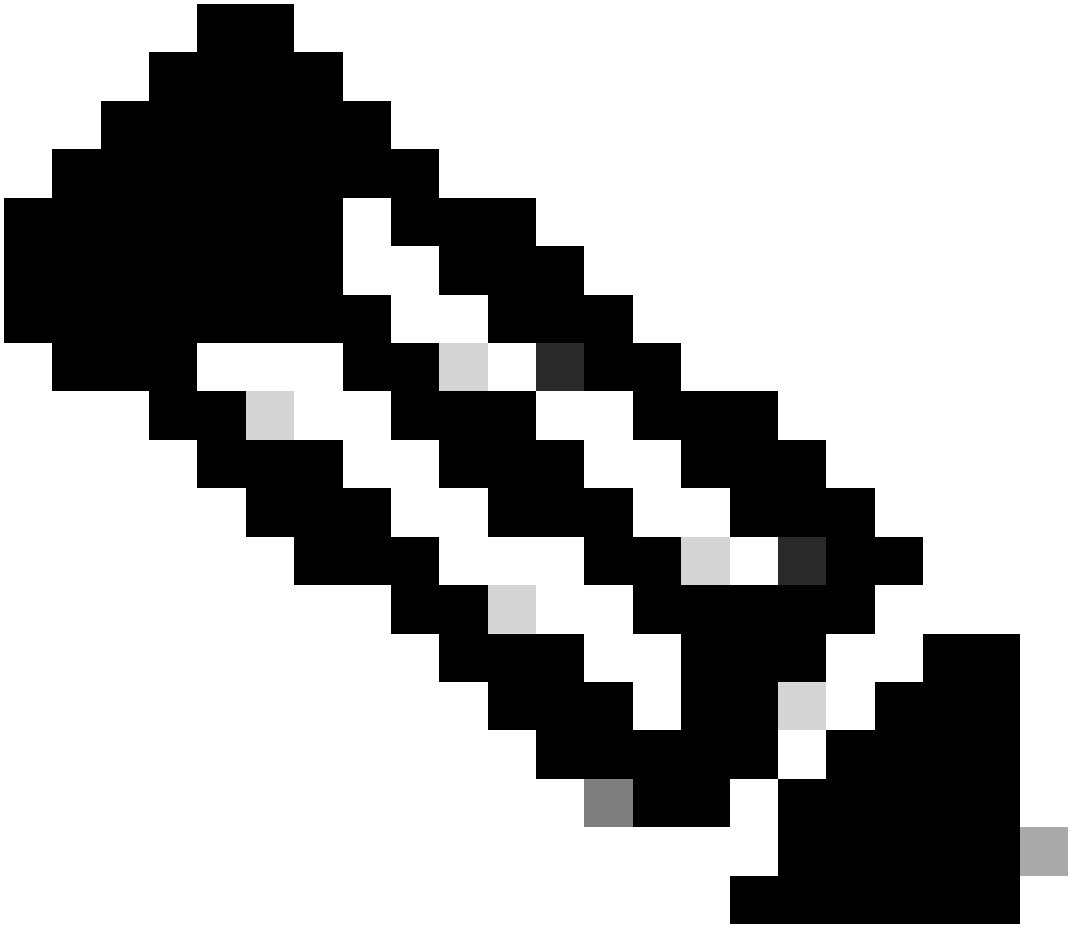
IPv6事件-模板324



注意：此模板用于流量传感器引擎检测到的IPv6坏分段和标志组合计数的v9导出。

```
IPV6_EVENT_TEMPLATE_ID, 18
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_PROTOCOL, 1
    NF_F_FLOWSENSOR_BAD_FLAG_XMAS, 2
    NF_F_FLOWSENSOR_BAD_FLAG_SYN_FIN, 2
    NF_F_FLOWSENSOR_BAD_FLAG_BAD_RST, 2
    NF_F_FLOWSENSOR_BAD_FLAG_NO_ACK, 2
    NF_F_FLOWSENSOR_BAD_FLAG_URG, 2
    NF_F_FLOWSENSOR_BAD_FLAG_NOFLAG, 2
    NF_F_FLOWSENSOR_BAD_TCP_PROBE, 2
    NF_F_FLOWSENSOR_SHORT_FRAG_ATTACK, 2
    NF_F_FLOWSENSOR_FRAG_PKT_TOO_SHORT, 2
    NF_F_FLOWSENSOR_FRAG_PKT_TOO_LONG, 2
    NF_F_FLOWSENSOR_FRAG_DIFFERENT_SIZES, 2
```

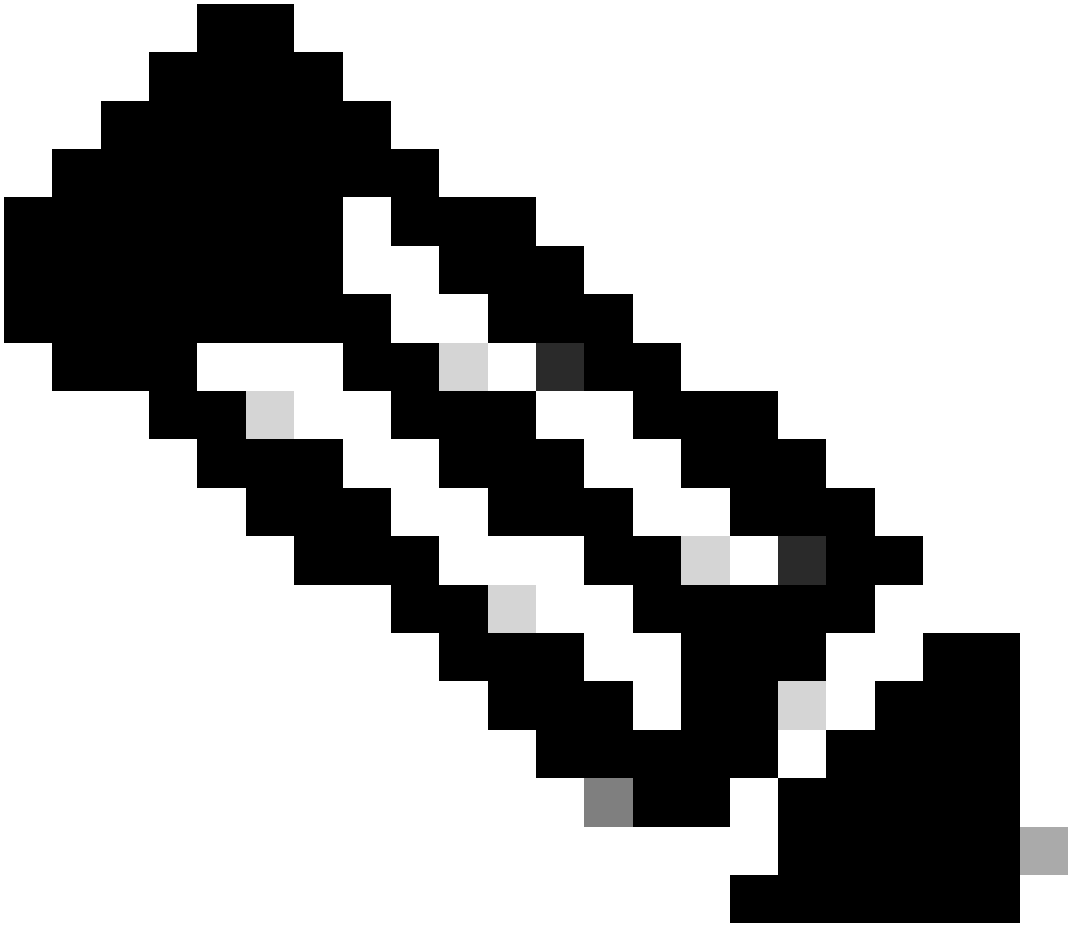
IPv4源电子邮件计数-模板325



注意：此模板用于导出源自流量传感器引擎检测到的源IP地址的IPv4邮件计数信息的v9。

```
IPV4_SRC_EMAIL_COUNTS_TEMPLATE_ID, 8
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_IN, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_IN_MESS, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT_MESS, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_IN_TRYS, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRYS, 4
```

IPv4首次流响应时间监控-模板326

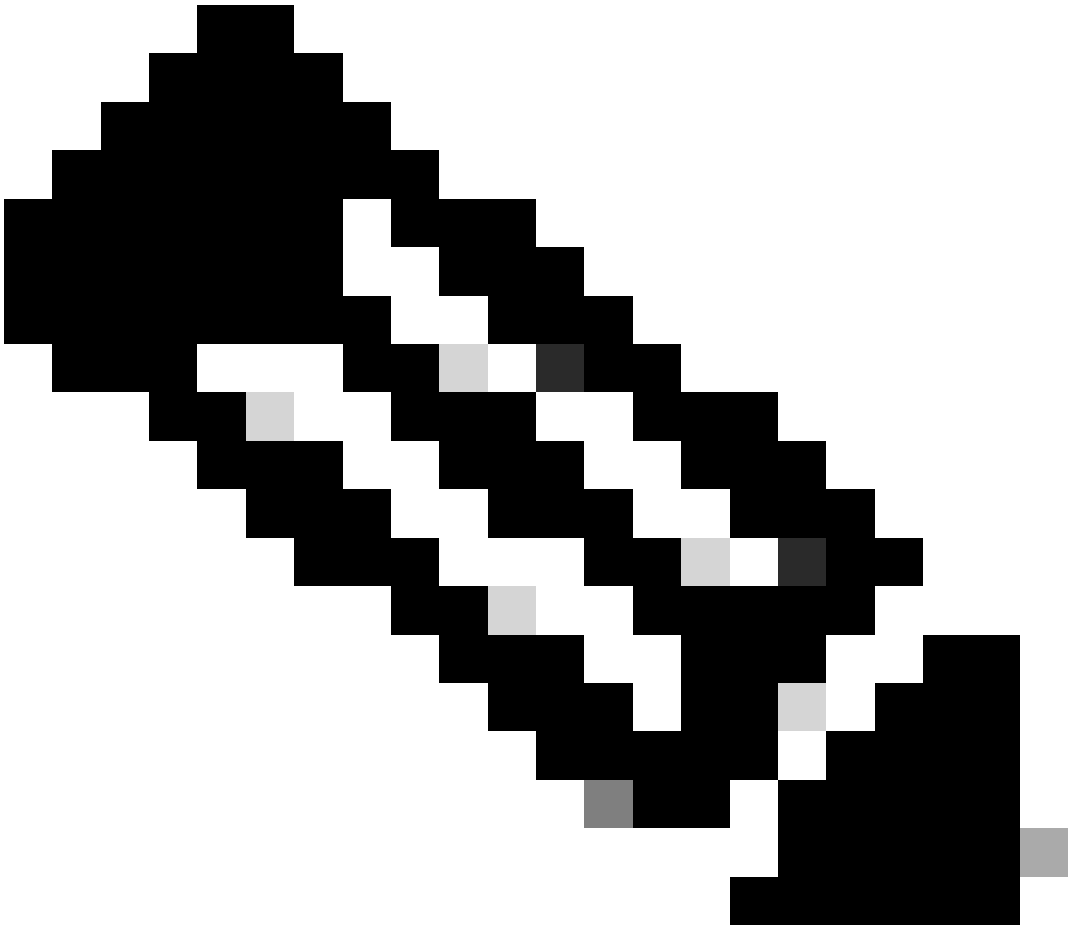


注意：在计算RTM数据后，此模板用于从流量传感器引擎中的流插槽初始v9导出IPv4流信息。

```
IPV4_FIRST_FLOW_RTM_TEMPLATE_ID, 34
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
    NF_F_MIN_TTL, 1
```

```
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_RTT, 4
NF_F_FLOWSENSOR_SVR_RESP, 4
NF_F_FLOWSENSOR_RETRANSMITS, 2
NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

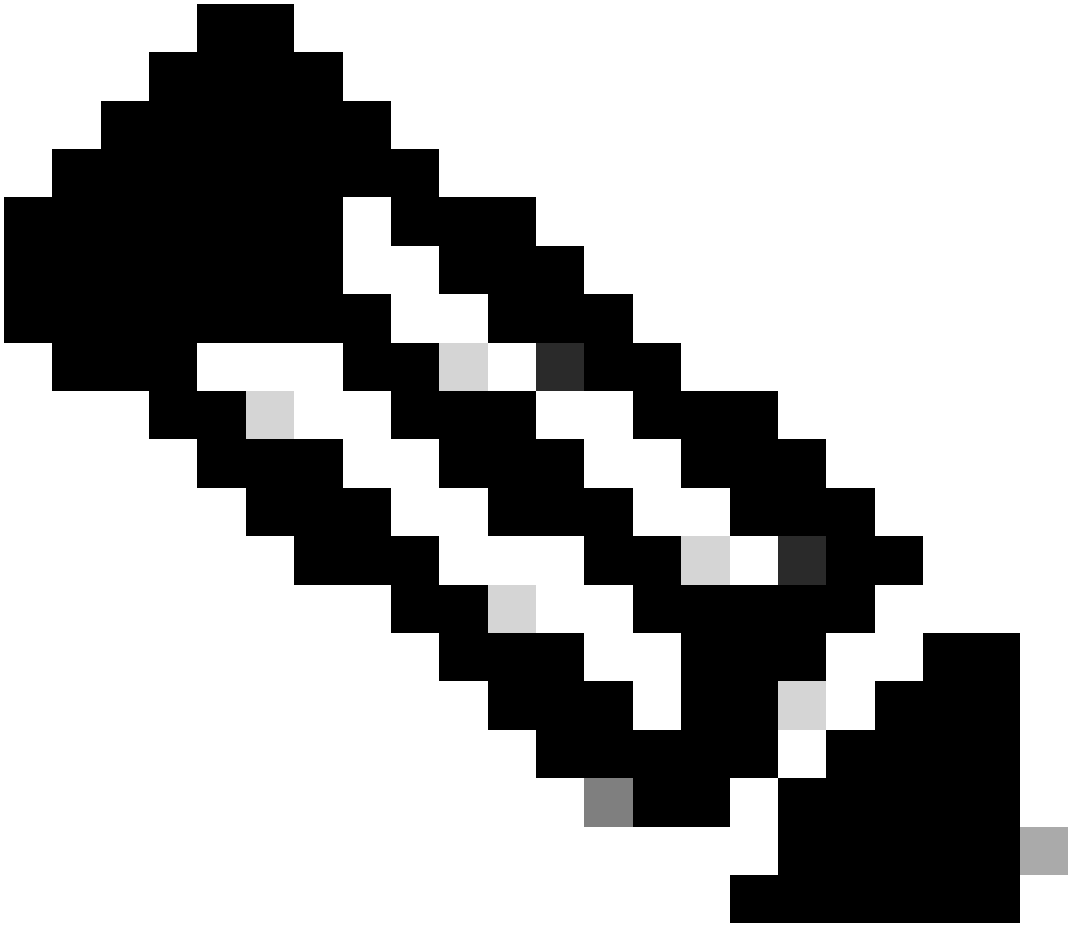
IPv4首次流深度响应时间监控-模板327



注意：当选中Export Packet Payload复选框并且已计算RTM数据时，此模板用于从流量传感器引擎中的流插槽初始v9导出IPv4流信息。

```
IPV4_FIRST_FLOW_DEEP_RTM_TEMPLATE_ID, 36
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
    NF_F_MIN_TTL, 1
    NF_F_SRC_TOS, 1
    NF_F_IP_SECTION_HEADER, 64
    NF_F_IP_SECTION_PAYLOAD, 26
    NF_F_FLOWSENSOR_INITIATOR, 1
    NF_F_TCP_SYN_TOTAL_COUNT, 2
    NF_F_TCP_ACK_TOTAL_COUNT, 2
    NF_F_TCP_FIN_TOTAL_COUNT, 2
    NF_F_TCP_RST_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
    NF_F_FLOWSENSOR_TRACES, 2
    NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
    NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
    NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
    NF_F_FLOWSENSOR_RTT, 4
    NF_F_FLOWSENSOR_SVR_RESP, 4
    NF_F_FLOWSENSOR_RETRANSMITS, 2
    NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

IPv4流响应时间监控-模板328

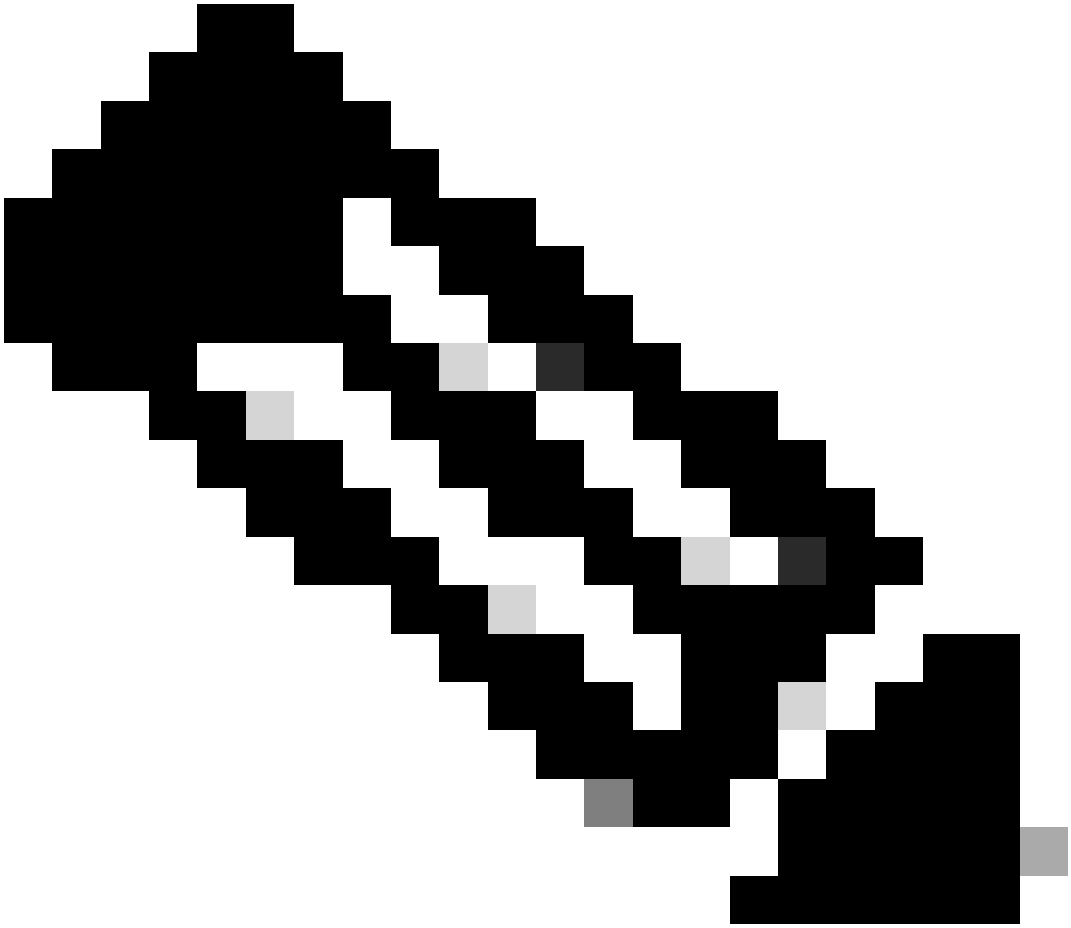


注意：在计算RTM数据后，此模板用于后续从流量传感器引擎的流插槽中导出IPv4流信息v9。

```
IPV4_FLOW_RTM_TEMPLATE_ID, 28
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_MIN_TTL, 1
    NF_F_TCP_SYN_TOTAL_COUNT, 2
    NF_F_TCP_ACK_TOTAL_COUNT, 2
    NF_F_TCP_FIN_TOTAL_COUNT, 2
    NF_F_TCP_RST_TOTAL_COUNT, 2
```

```
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_RTT, 4
NF_F_FLOWSENSOR_SVR_RESP, 4
NF_F_FLOWSENSOR_RETRANSMITS, 2
NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

IPv6首次流响应时间监控-模板329

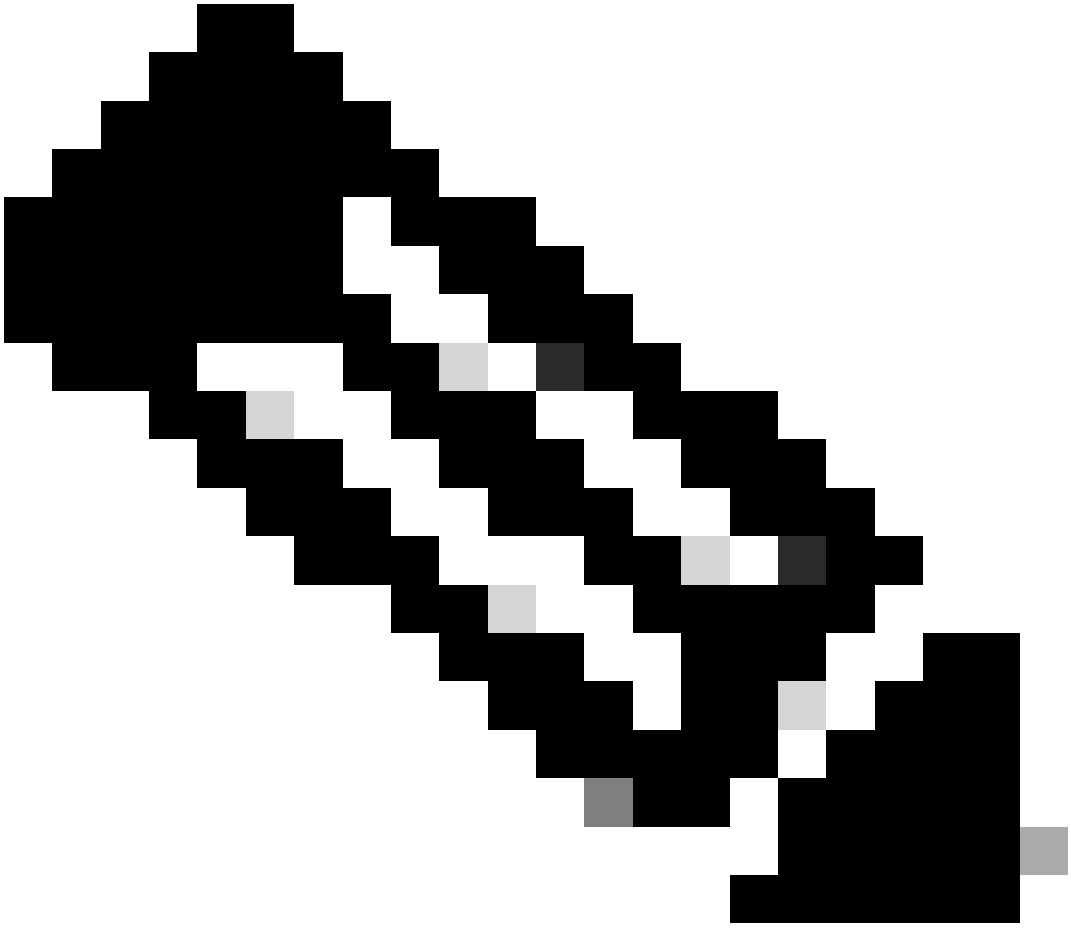


注意：在计算RTM数据后，此模板用于从流量传感器引擎中的流插槽初始v9导出IPv6流信息。

```
IPV6_FIRST_FLOW_RTM_TEMPLATE_ID, 34
```

```
NF_F_FIRST_SWITCHED, 4
NF_F_LAST_SWITCHED, 4
NF_F_SRC_ADDR_IPV6, 16
NF_F_DST_ADDR_IPV6, 16
NF_F_L4_SRC_PORT, 2
NF_F_L4_DST_PORT, 2
NF_F_IN_SRC_MAC, 6
NF_F_OUT_DST_MAC, 6
NF_F_IN_BYTES, 4
NF_F_IN_PKTS, 4
NF_F_SRC_INTF_ID, 2
NF_F_DST_INTF_ID, 2
NF_F_PROTOCOL, 1
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_RTT, 4
NF_F_FLOWSENSOR_SVR_RESP, 4
NF_F_FLOWSENSOR_RETRANSMITS, 2
NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

IPv6首次流深度响应时间监控-模板330

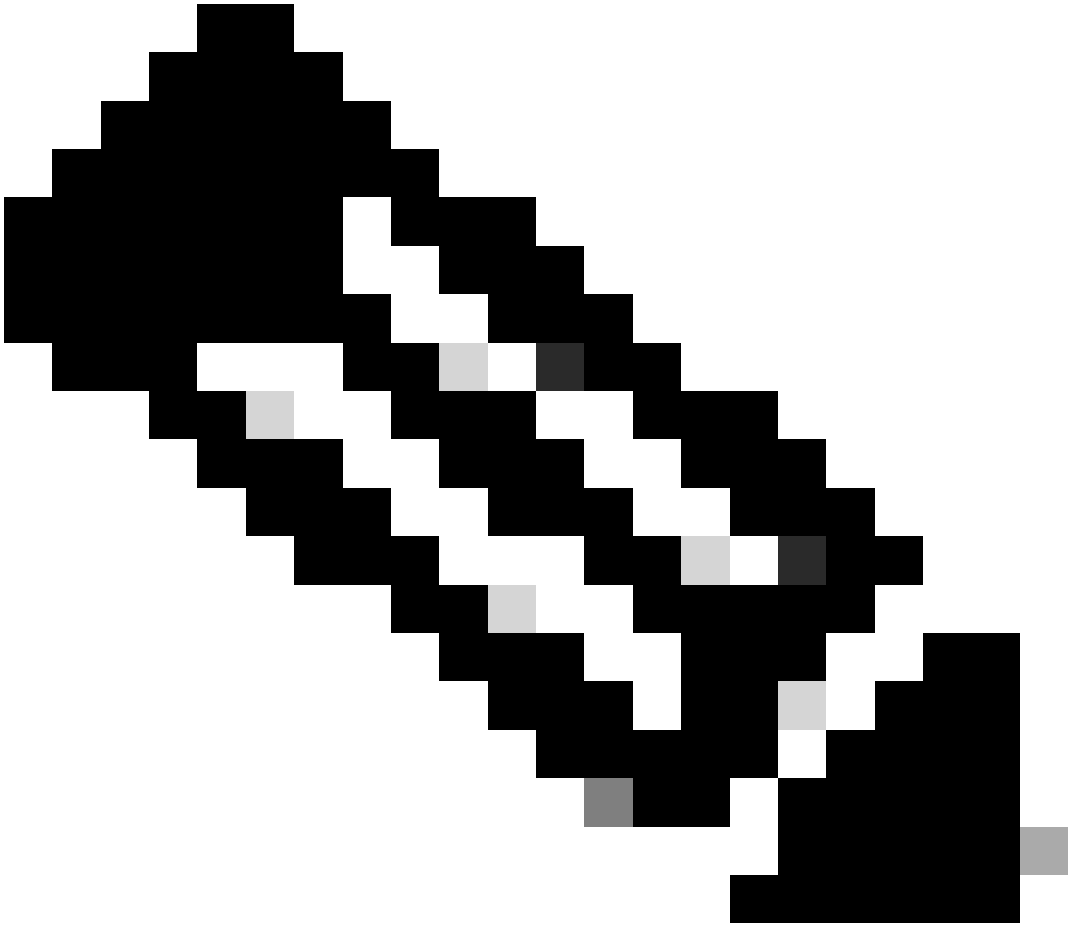


注意：选中Export Packet Payload复选框并计算RTM数据后，此模板用于从流量传感器引擎中的流插槽初始v9导出IPv6流信息。

```
IPV6_FIRST_FLOW_DEEP_RTM_TEMPLATE_ID, 36
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
    NF_F_MIN_TTL, 1
```

```
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR, 1
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_RTT, 4
NF_F_FLOWSENSOR_SVR_RESP, 4
NF_F_FLOWSENSOR_RETRANSMITS, 2
NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

IPv6流响应时间监控-模板331

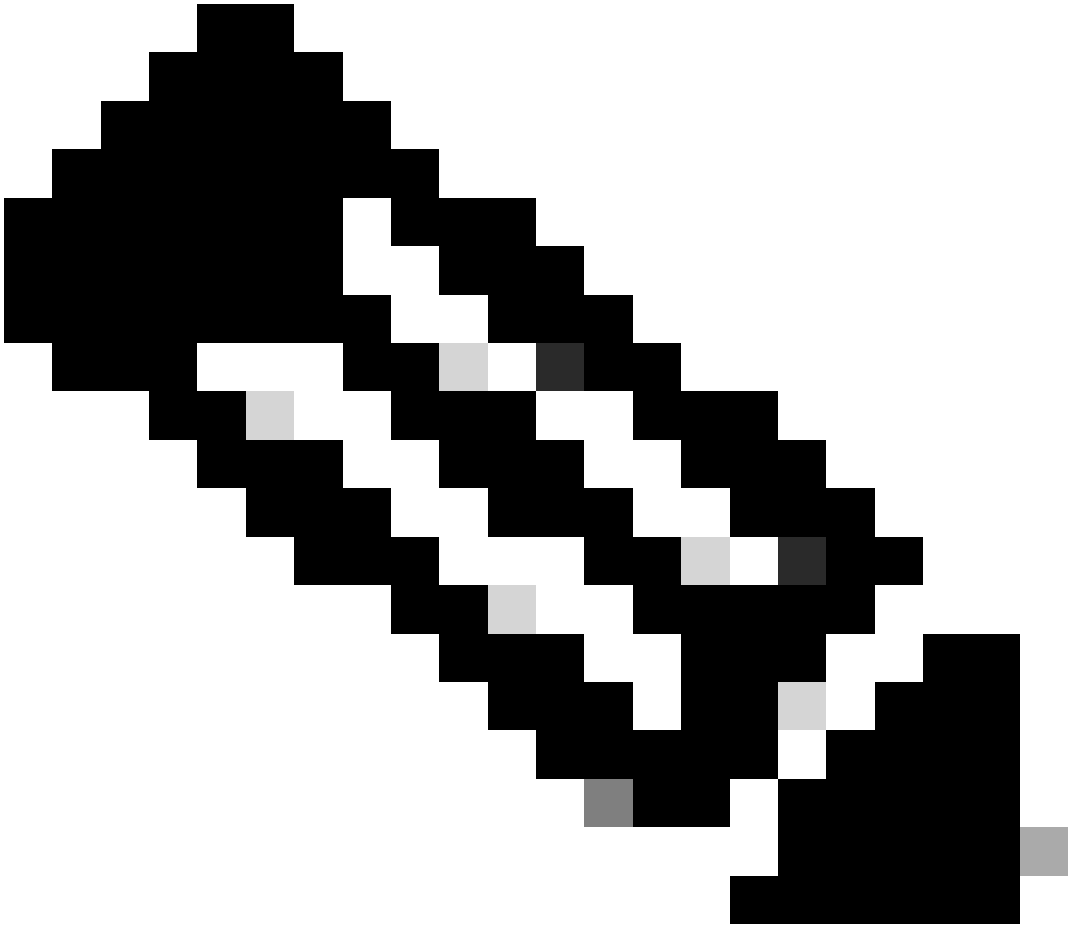


注意：在计算RTM数据后，此模板用于后续从流量传感器引擎的流插槽中导出IPv6流信息v9。

```
IPV6_FLOW_RTM_TEMPLATE_ID, 28
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_MIN_TTL, 1
    NF_F_TCP_SYN_TOTAL_COUNT, 2
    NF_F_TCP_ACK_TOTAL_COUNT, 2
    NF_F_TCP_FIN_TOTAL_COUNT, 2
    NF_F_TCP_RST_TOTAL_COUNT, 2
```

```
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TRACES, 2
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL, 1
NF_F_FLOWSENSOR_EMB_ICMP_TYPE, 1
NF_F_FLOWSENSOR_EMB_ICMP_CODE, 1
NF_F_FLOWSENSOR_RTT, 4
NF_F_FLOWSENSOR_SVR_RESP, 4
NF_F_FLOWSENSOR_RETRANSMITS, 2
NF_F_FLOWSENSOR_APPLICATION_ID, 4
```

IPv4目标电子邮件计数-模板332

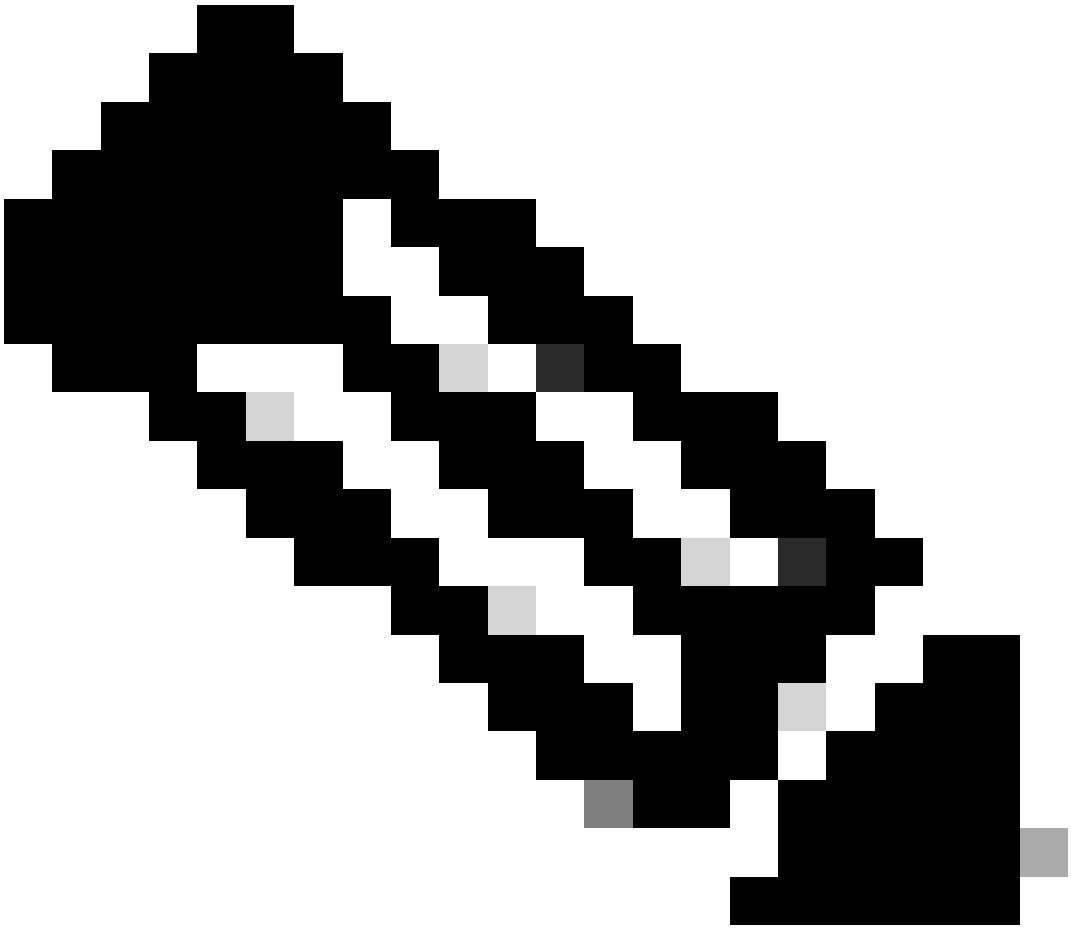


注意：此模板用于流量传感器引擎检测到的目标IP地址收到的IPv4邮件计数信息的v9导出。

```
IPV4_DST_EMAIL_COUNTS_TEMPLATE_ID, 8
```

```
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_FLOWSENSOR_DST_EMAIL_IN, 4
    NF_F_FLOWSENSOR_DST_EMAIL_OUT, 4
    NF_F_FLOWSENSOR_DST_EMAIL_IN_MESS, 4
    NF_F_FLOWSENSOR_DST_EMAIL_OUT_MESS, 4
    NF_F_FLOWSENSOR_DST_EMAIL_IN_TRYS, 4
    NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYS, 4
```

IPv6源电子邮件计数-模板333

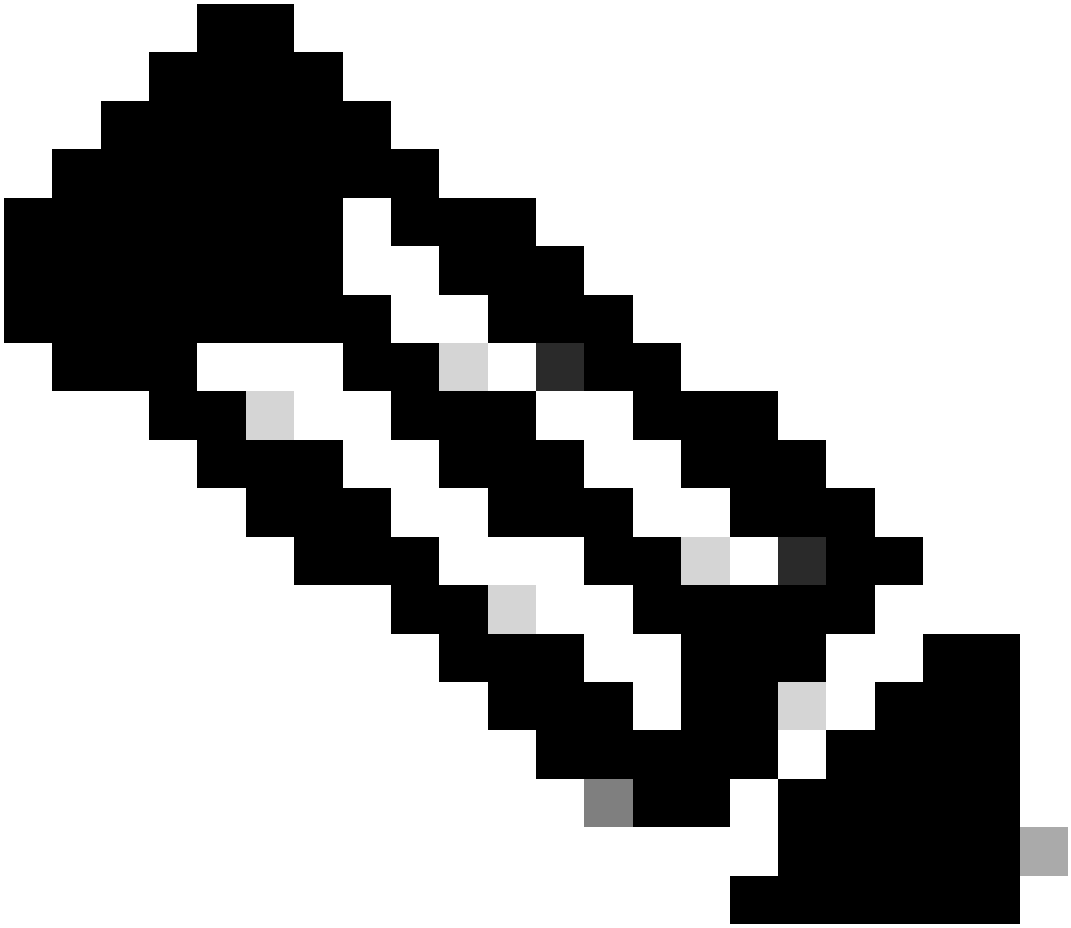


注意：此模板用于导出源自流量传感器引擎检测到的源IP地址的IPv6邮件计数信息的v9。

```
IPV6_SRC_EMAIL_COUNTS_TEMPLATE_ID, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_FLOWSENSOR_SRC_EMAIL_IN, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_IN_MESS, 4
```

```
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT_MESS, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_IN_TRYS, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRYS, 4
```

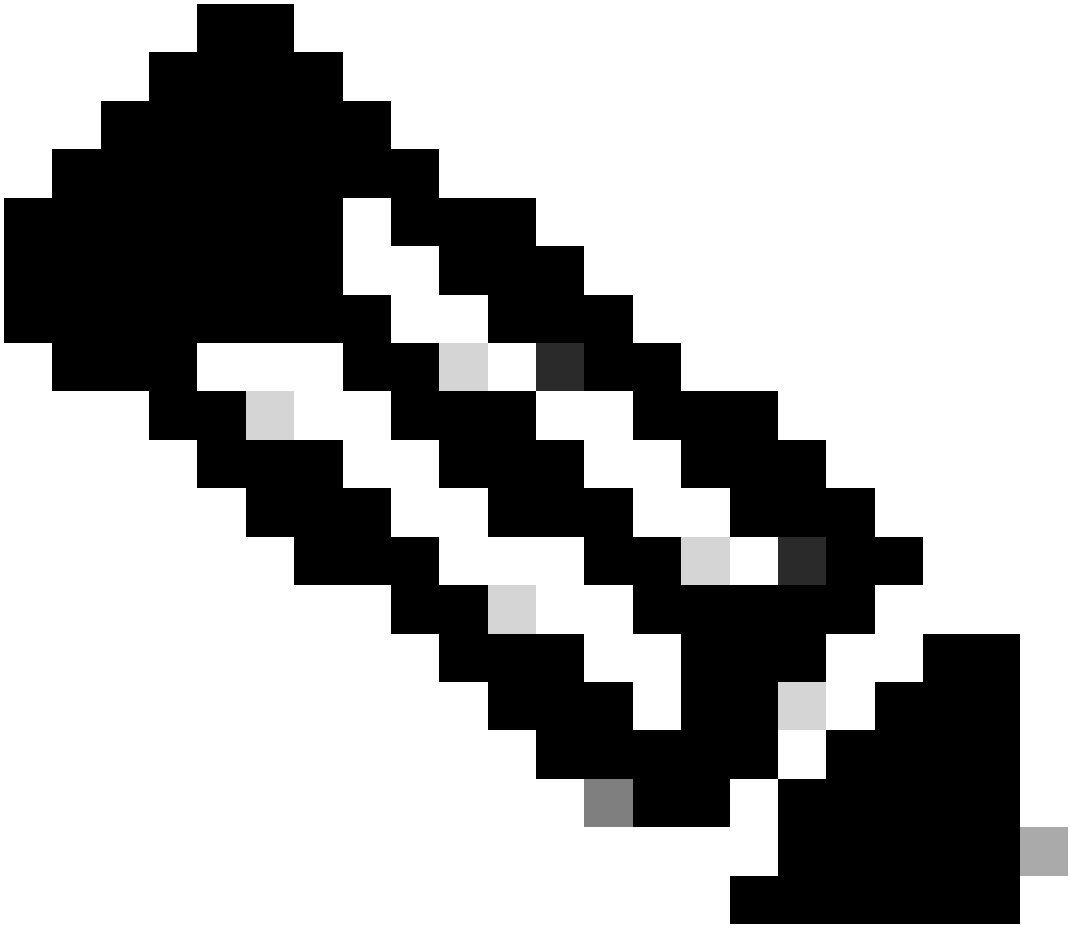
IPv6目标邮件计数-模板334



注意：此模板用于流量传感器引擎检测到的目标IP地址收到的IPv6邮件计数信息的v9导出。

```
IPV6_DST_EMAIL_COUNTS_TEMPLATE_ID, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_FLOWSENSOR_DST_EMAIL_IN, 4
    NF_F_FLOWSENSOR_DST_EMAIL_OUT, 4
    NF_F_FLOWSENSOR_DST_EMAIL_IN_MESS, 4
    NF_F_FLOWSENSOR_DST_EMAIL_OUT_MESS, 4
    NF_F_FLOWSENSOR_DST_EMAIL_IN_TRYS, 4
    NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYS, 4
```

IPv4第一流IPFIX模板335

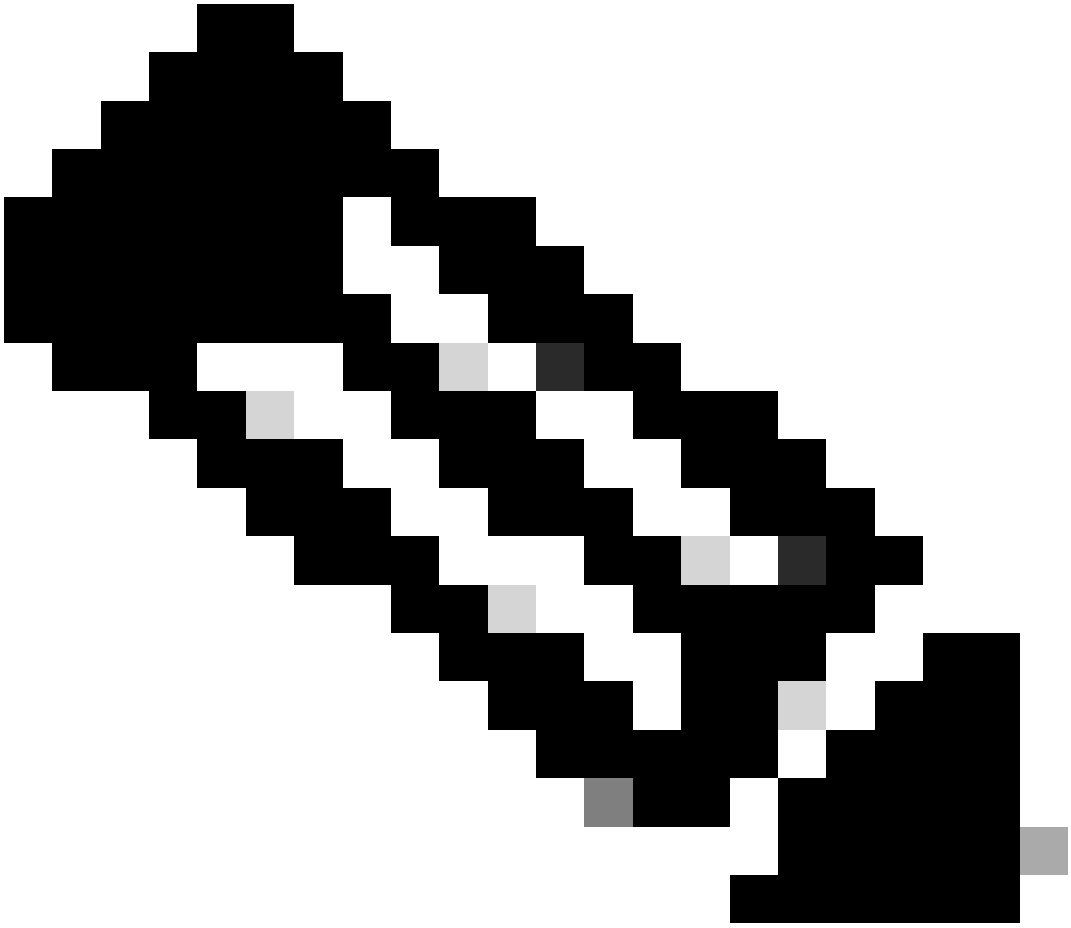


注意：此模板用于从流量传感器引擎的流插槽中初始IPFIX导出IPv4流信息。

```
IPV4_FIRST_FLOW_IPFIX_TEMPLATE_ID, 33
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
```

```
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv4第一流深度IPFIX -模板336

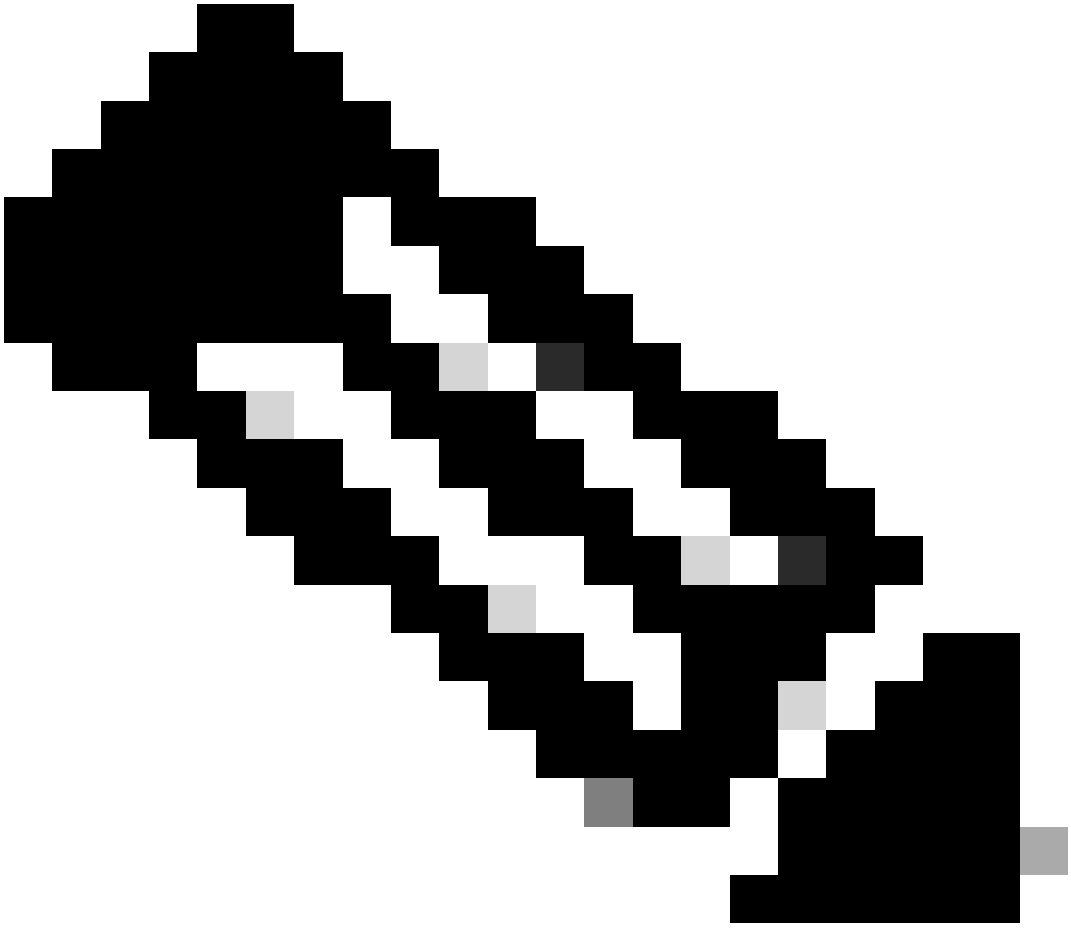


注意：选中导出数据包负载(Export Packet Payload)复选框时，此模板用于从流量传感器引擎中的流插槽初始IPFIX导出IPv4流信息。

```
IPV4_FIRST_FLOW_DEEP_IPFIX_TEMPLATE_ID, 35
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
```

```
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv4流IPFIX -模板337

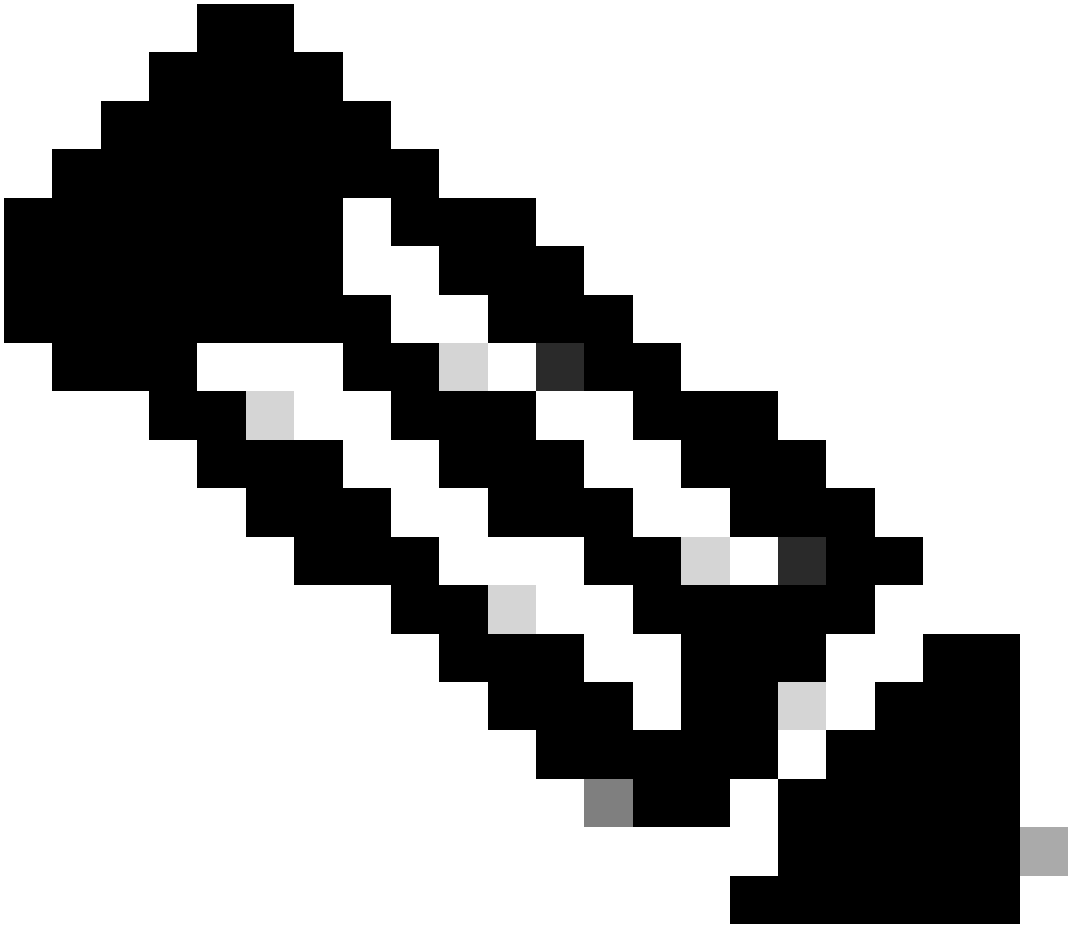


注意：此模板用于后续的IPFIX从流量传感器引擎的流插槽导出IPv4流信息。

```
IPV4_FLOW_IPFIX_TEMPLATE_ID, 27
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_MIN_TTL, 1
    NF_F_TCP_SYN_TOTAL_COUNT, 2
    NF_F_TCP_ACK_TOTAL_COUNT, 2
    NF_F_TCP_FIN_TOTAL_COUNT, 2
    NF_F_TCP_RST_TOTAL_COUNT, 2
```

```
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

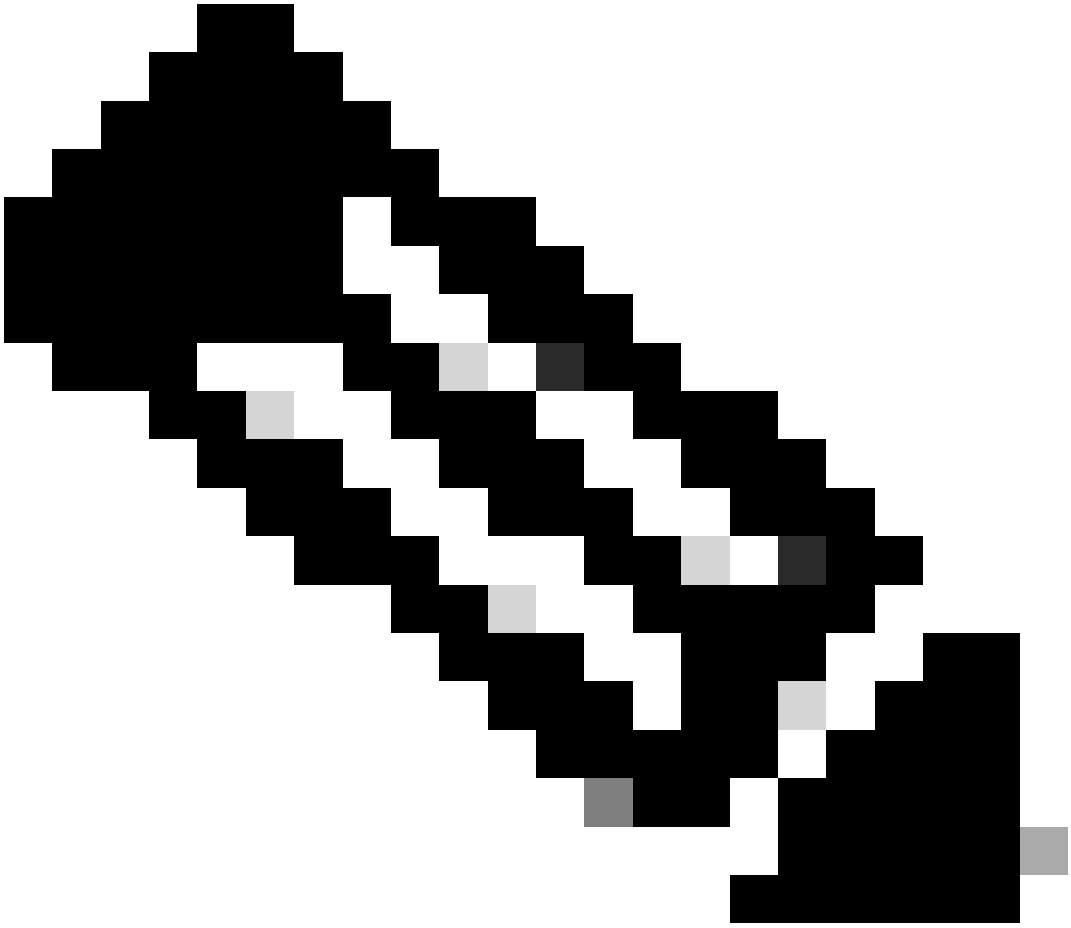
IPv4事件IPFIX -模板338



注意：此模板用于流量传感器引擎检测到的IPv4坏分段和标志组合计数的IPFIX导出。

```
IPV4_EVENT_IPFIX_TEMPLATE_ID, 19
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_PROTOCOL, 1
    NF_F_FLOWSENSOR_BAD_FLAG_XMAS | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_FLAG_SYN_FIN | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_FLAG_BAD_RST | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_FLAG_NO_ACK | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_FLAG_URG | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_FLAG_NOFLAG | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_TCP_PROBE | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_SHORT_FRAG_ATTACK | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_FRAG_PKT_TOO_SHORT | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_FRAG_PKT_TOO_LONG | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_FRAG_DIFFERENT_SIZES | 0x8000, 2
    0000, 8712
```

IPv6第一流IPFIX -模板339

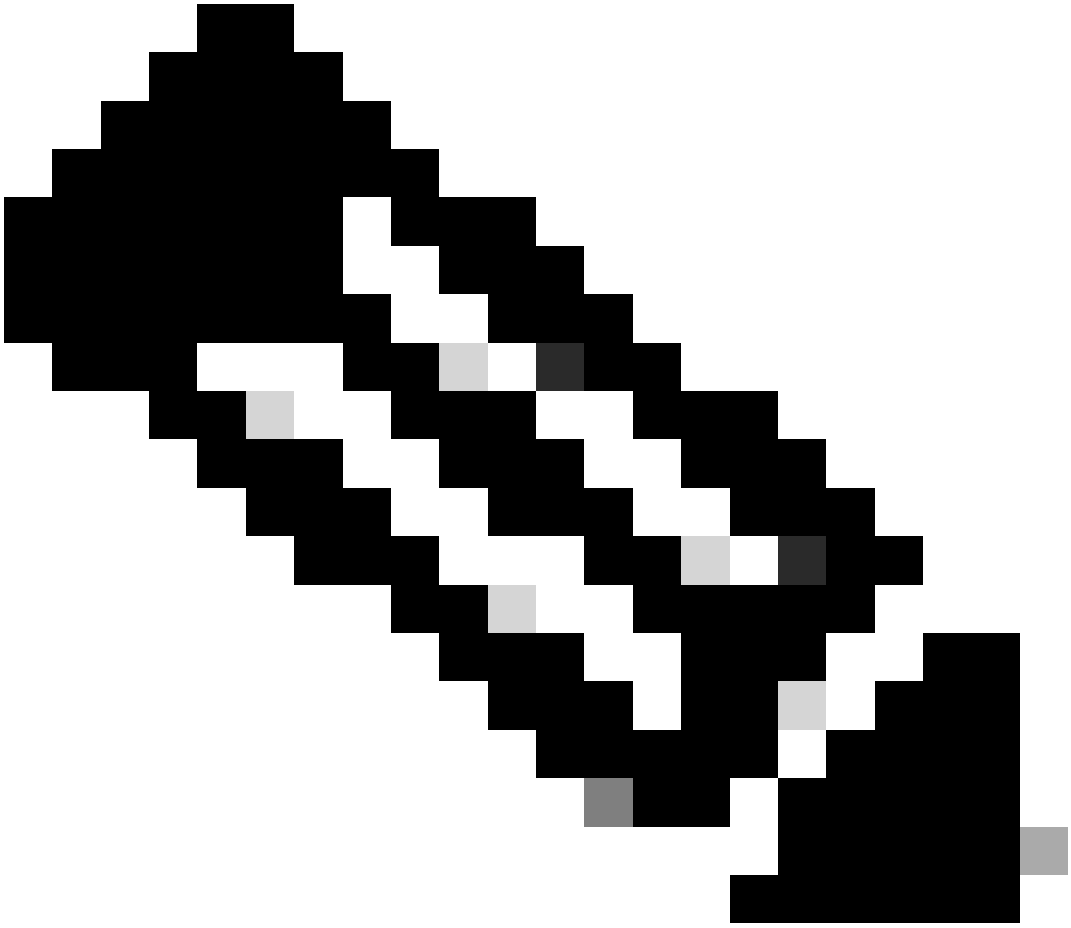


注意：此模板用于从流量传感器引擎的流插槽中初始IPFIX导出IPv6流信息。

```
IPV6_FIRST_FLOW_IPFIX_TEMPLATE_ID, 33
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
    NF_F_MIN_TTL, 1
```

```
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv6第一流深度IPFIX -模板340

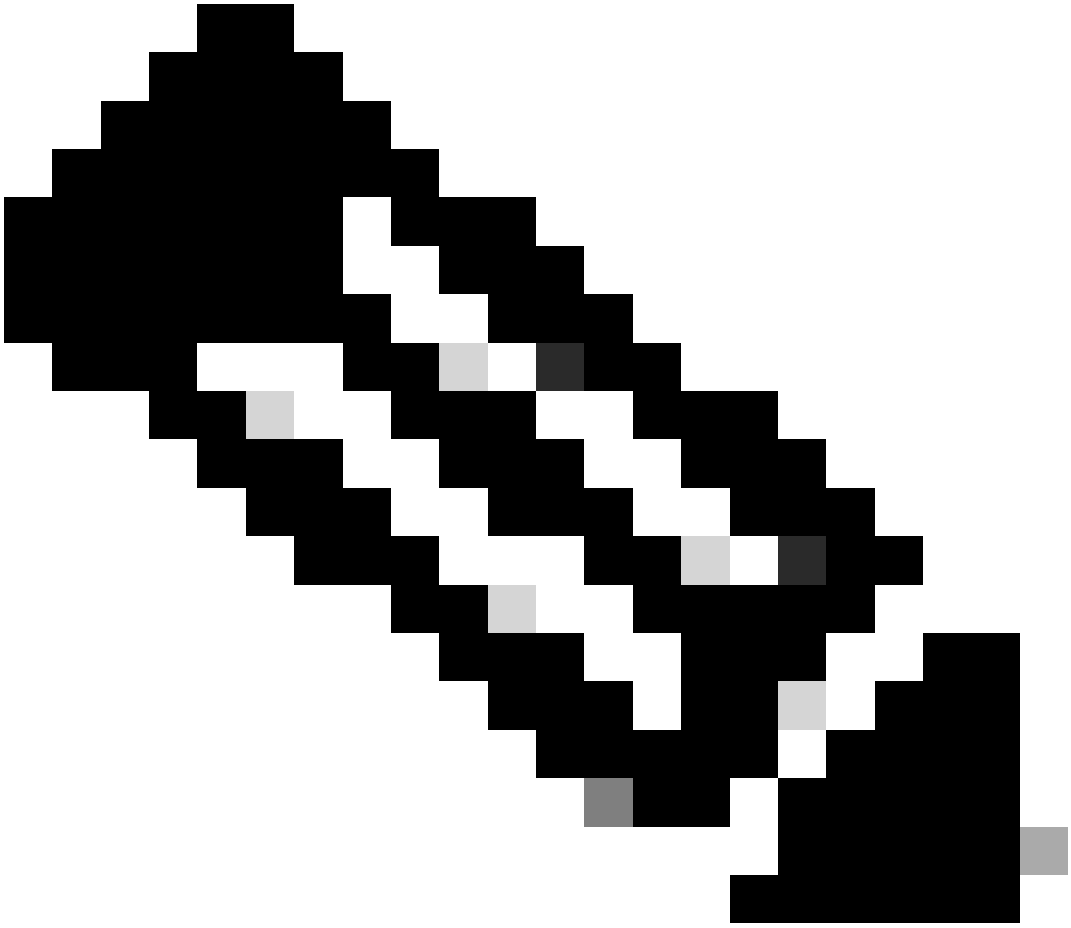


注意：选中导出数据包负载(Export Packet Payload)复选框时，此模板用于从流量传感器引擎中的流插槽初始IPFIX导出IPv6流信息。

```
IPV6_FIRST_FLOW_DEEP_IPFIX_TEMPLATE_ID, 35
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
```

```
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv6流IPFIX -模板341

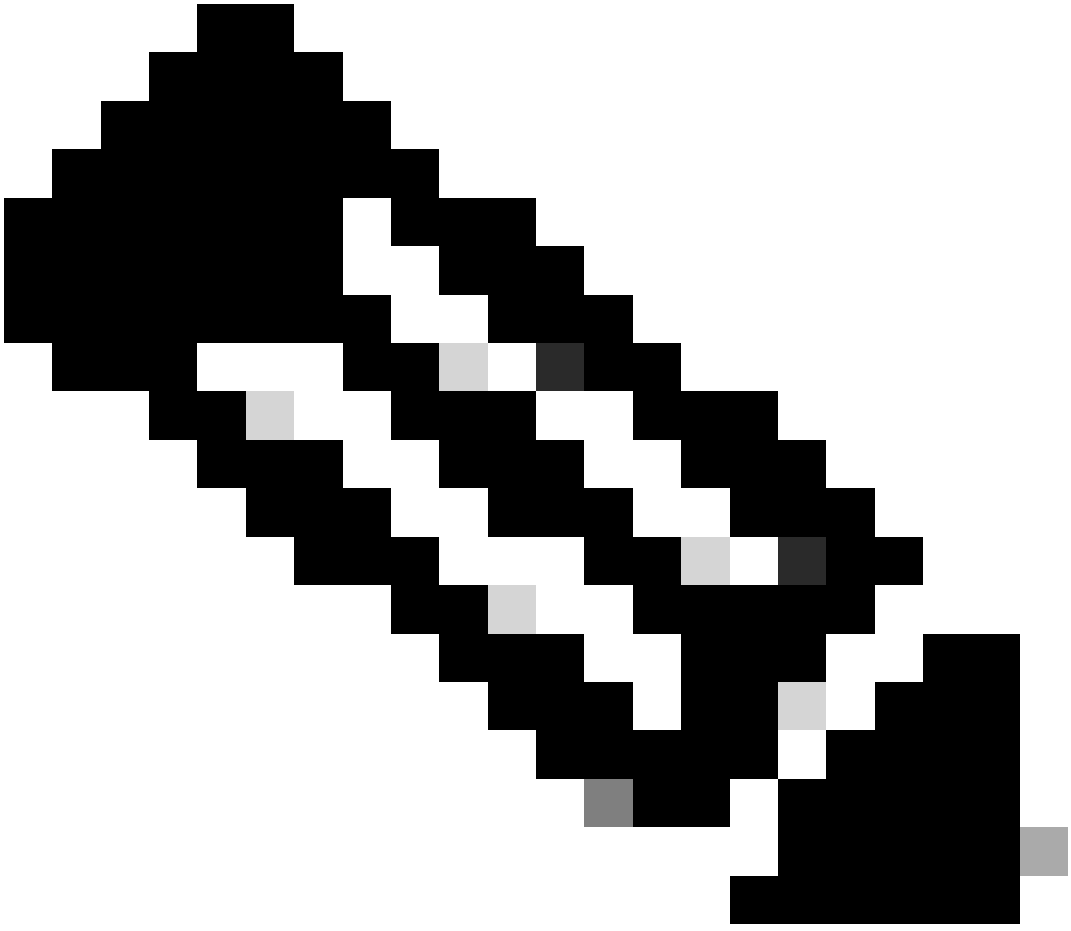


注意：此模板用于后续的IPFIX从流量传感器引擎的流插槽导出IPv6流信息。

```
IPV6_FLOW_IPFIX_TEMPLATE_ID, 27
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_MIN_TTL, 1
    NF_F_TCP_SYN_TOTAL_COUNT, 2
    NF_F_TCP_ACK_TOTAL_COUNT, 2
    NF_F_TCP_FIN_TOTAL_COUNT, 2
    NF_F_TCP_RST_TOTAL_COUNT, 2
```

```
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

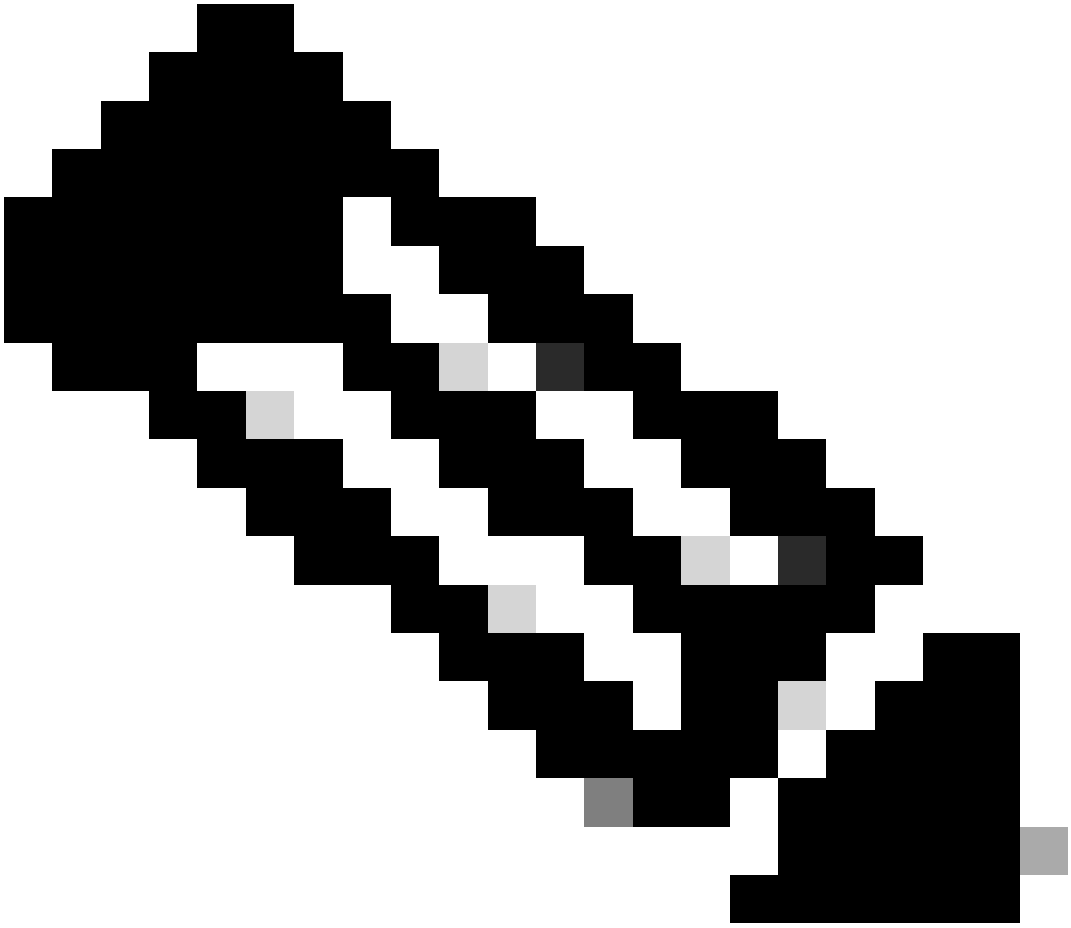
IPv6事件IPFIX -模板342



注意：此模板用于流量传感器引擎检测到的IPv6坏分段和标志组合计数的IPFIX导出。

```
IPV6_EVENT_IPFIX_TEMPLATE_ID, 19
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_PROTOCOL, 1
    NF_F_FLOWSENSOR_BAD_FLAG_XMAS | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_FLAG_SYN_FIN | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_FLAG_BAD_RST | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_FLAG_NO_ACK | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_FLAG_URG | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_FLAG_NOFLAG | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_BAD_TCP_PROBE | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_SHORT_FRAG_ATTACK | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_FRAG_PKT_TOO_SHORT | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_FRAG_PKT_TOO_LONG | 0x8000, 2
    0000, 8712
    NF_F_FLOWSENSOR_FRAG_DIFFERENT_SIZES | 0x8000, 2
    0000, 8712
```

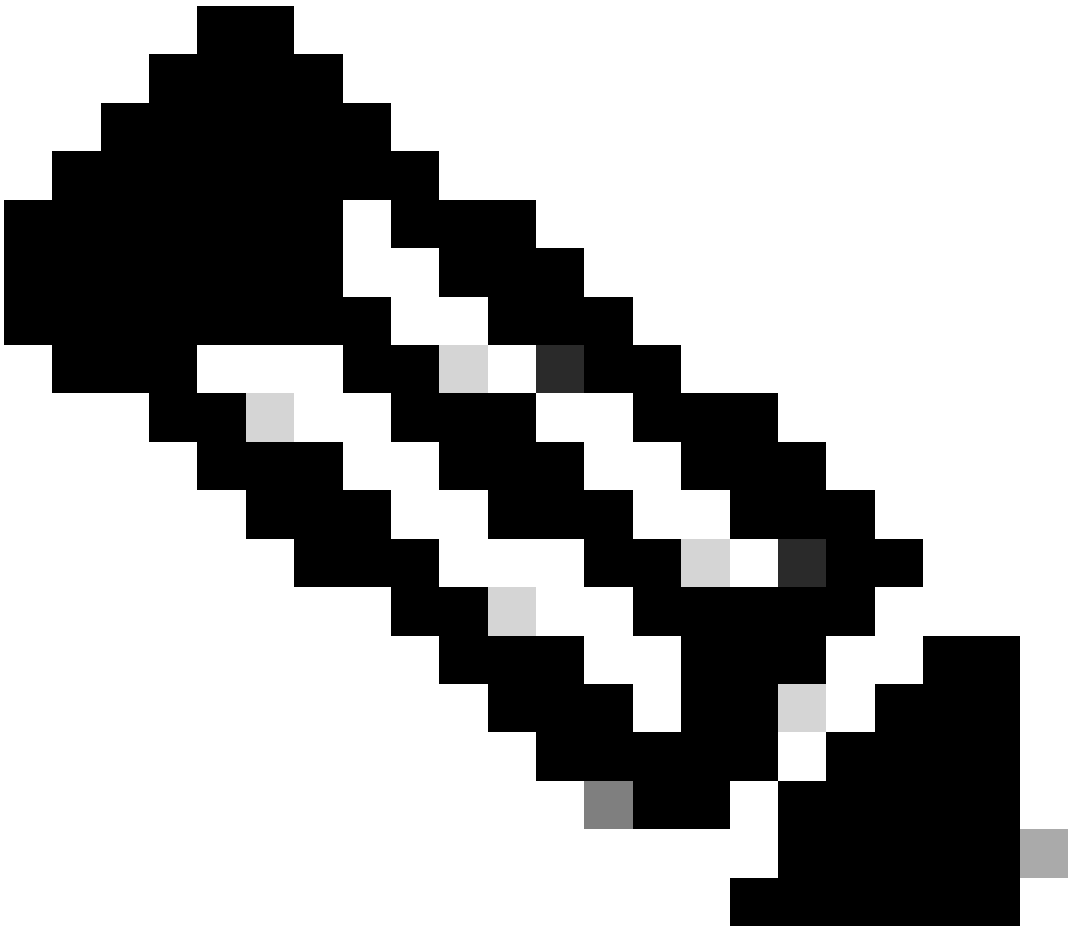
IPv4源电子邮件计数IPFIX -模板343



注意：此模板用于通过IPFIX导出源自流量传感器引擎检测到的源IP地址的IPv4邮件计数信息。

```
IPV4_SRC_EMAIL_COUNTS_IPFIX_TEMPLATE_ID, 8
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_FLOWSENSOR_SRC_EMAIL_IN | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_SRC_EMAIL_IN_MESS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT_MESS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_SRC_EMAIL_IN_TRYS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRYS | 0x8000, 4
    0000, 8712
```

IPv4首次流响应时间监控-模板344

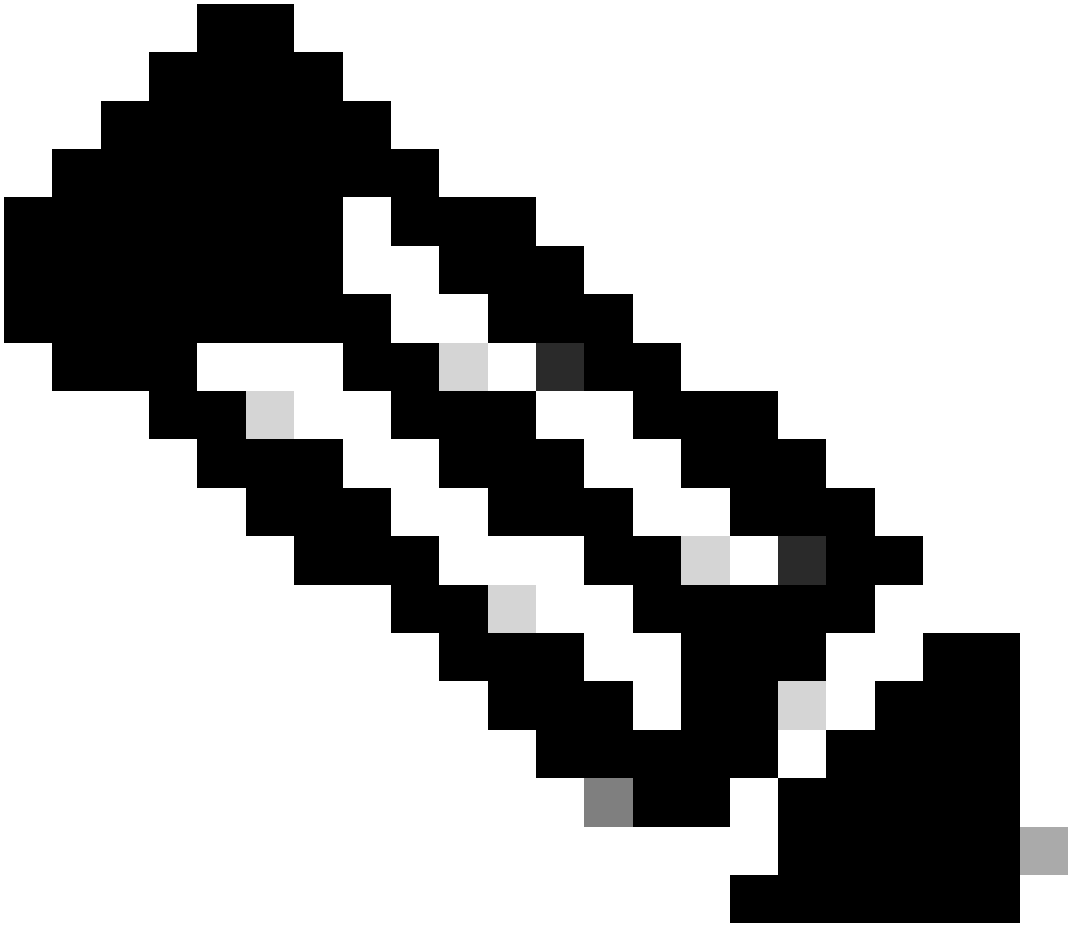


注意：在计算RTM数据后，此模板用于从流量传感器引擎中的流插槽初始IPFIX导出IPv4流信息。

```
IPV4_FIRST_FLOW_RTM_IPFIX_TEMPLATE_ID, 36
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
```

```
NF_F_TCP_FLAGS, 1
NF_F_SRC_VLAN, 2
NF_F_MPLS_LABEL_1, 3
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv4首次流深度响应时间监控-模板345

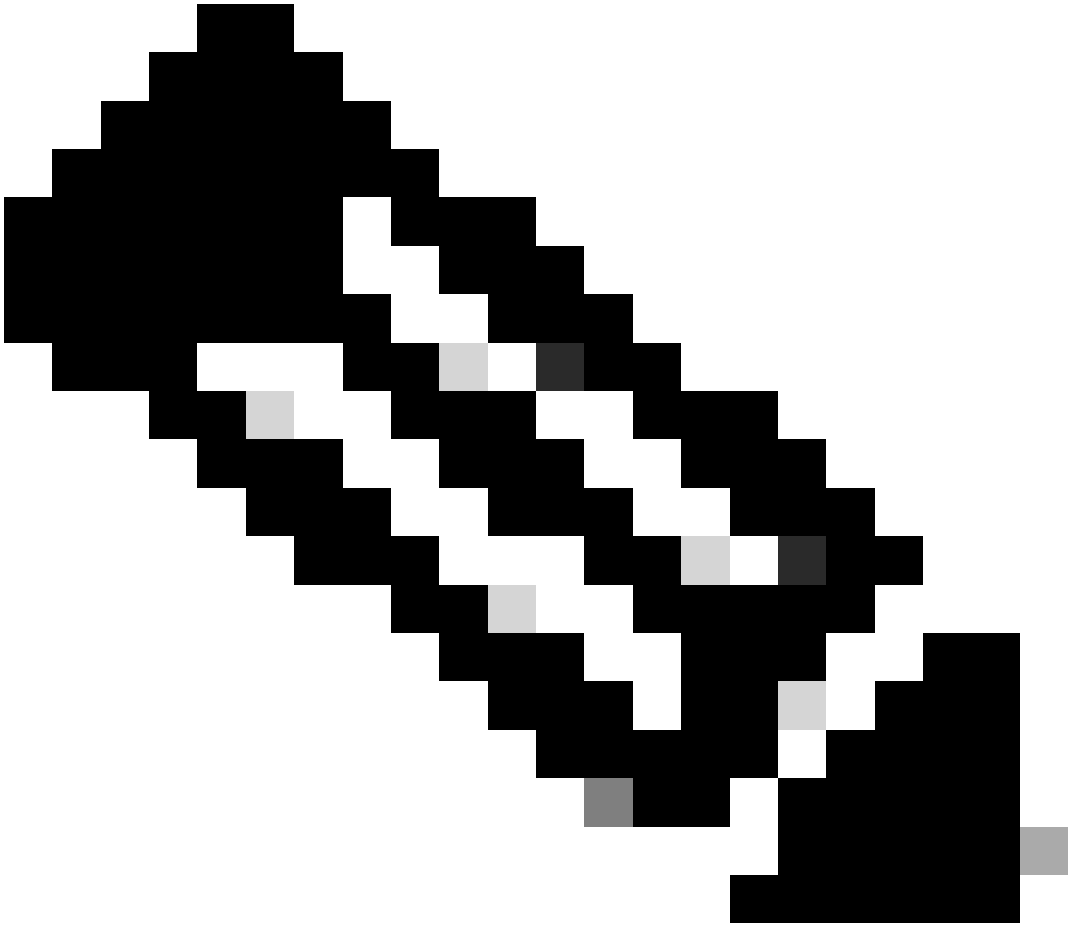


注意：选中导出数据包负载(Export Packet Payload)复选框时，此模板用于从流量传感器引擎中的流插槽初始IPFIX导出IPv4流信息。

```
IPV4_FIRST_FLOW_DEEP_RTM_IPFIX_TEMPLATE_ID, 38
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
```

```
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv4流响应时间监控IPFIX -模板346

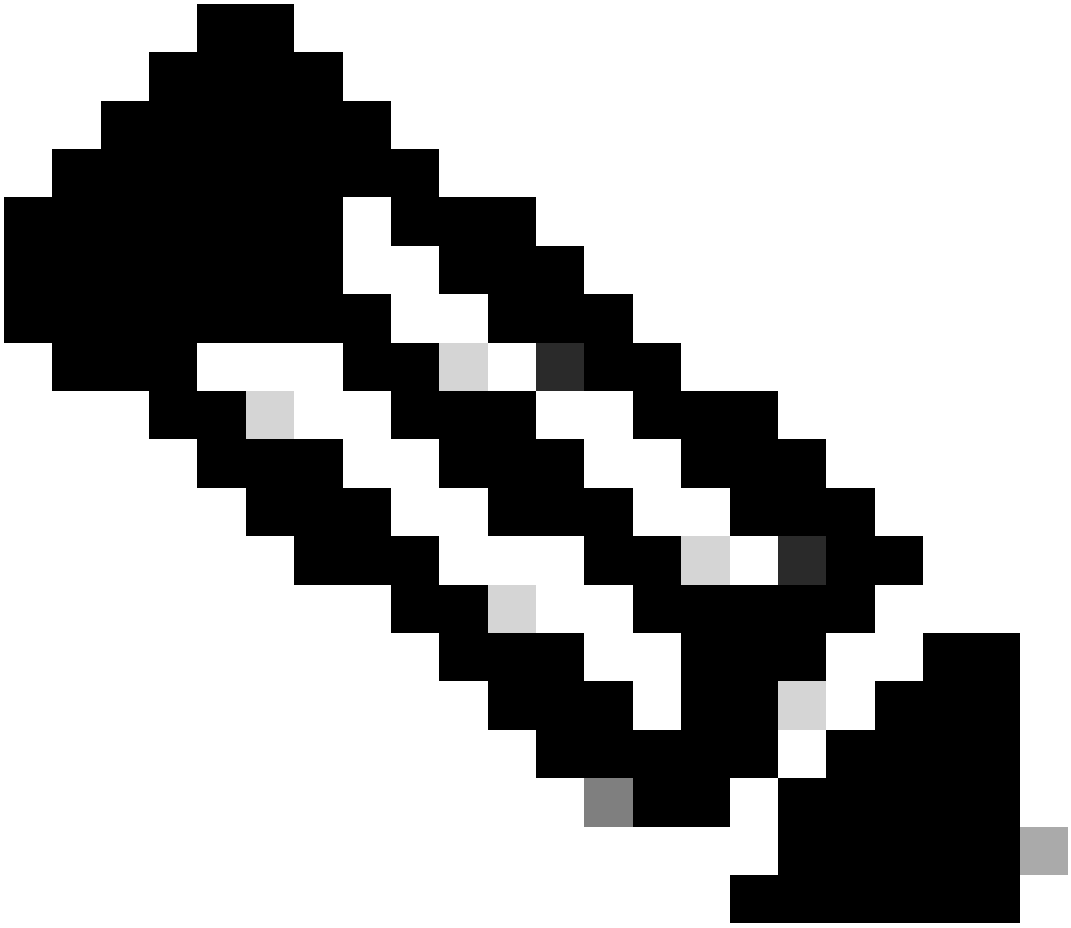


注意：此模板用于在计算RTM数据时从流量传感器引擎的流插槽中后续IPFIX导出IPv4流信息。

```
IPV4_FLOW_RTM_IPFIX_TEMPLATE_ID, 30
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_MIN_TTL, 1
    NF_F_TCP_SYN_TOTAL_COUNT, 2
    NF_F_TCP_ACK_TOTAL_COUNT, 2
    NF_F_TCP_FIN_TOTAL_COUNT, 2
```

```
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv6首次流响应时间监控IPFIX -模板347

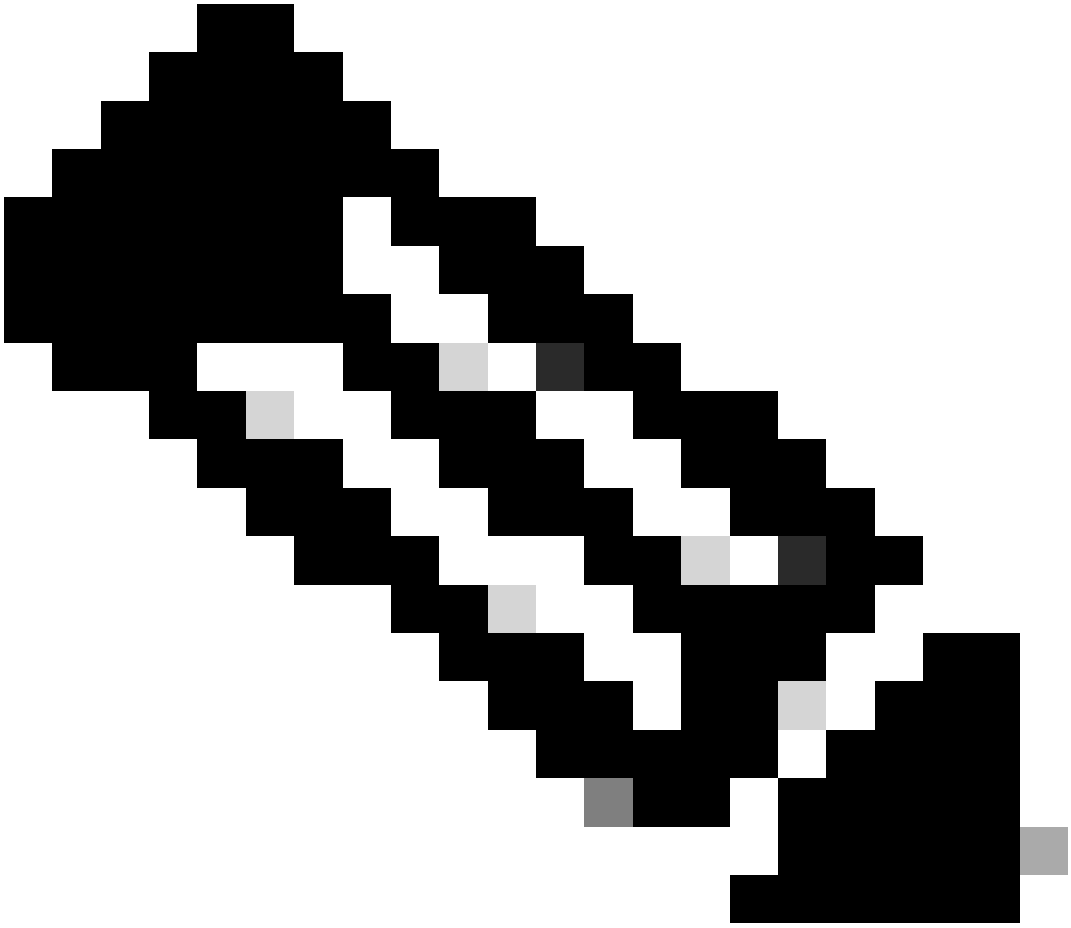


注意：在计算RTM数据后，此模板用于从流量传感器引擎中的流插槽初始IPFIX导出IPv6流信息。

```
IPV6_FIRST_FLOW_RTM_IPFIX_TEMPLATE_ID, 36
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
```

```
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv6第一个流深度RTM IPFIX -模板348

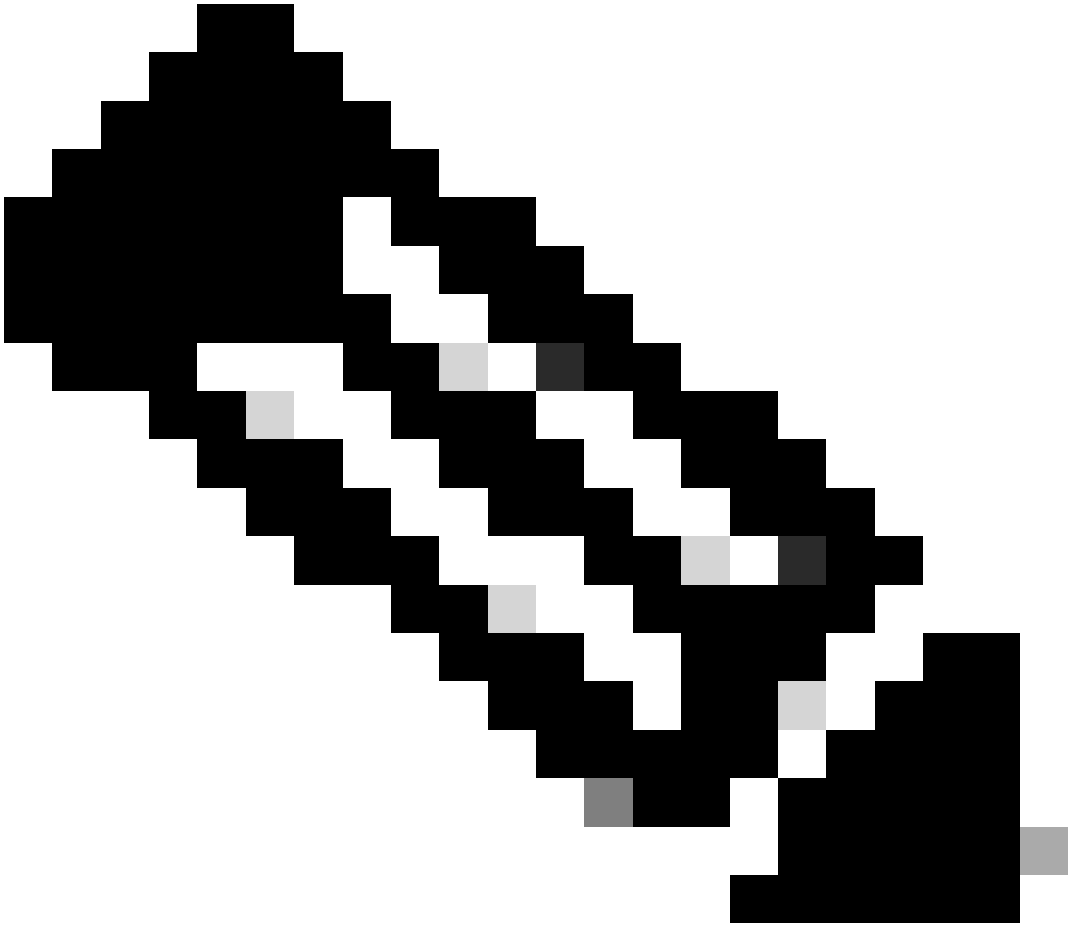


注意：选中导出数据包负载(Export Packet Payload)复选框时，此模板用于从流量传感器引擎中的流插槽初始IPFIX导出IPv6流信息。

```
IPV6_FIRST_FLOW_DEEP_RTM_IPFIX_TEMPLATE_ID, 38
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_SRC_MAC, 6
    NF_F_OUT_DST_MAC, 6
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_SRC_VLAN, 2
    NF_F_MPLS_LABEL_1, 3
```

```
NF_F_MIN_TTL, 1
NF_F_SRC_TOS, 1
NF_F_IP_SECTION_HEADER, 64
NF_F_IP_SECTION_PAYLOAD, 26
NF_F_FLOWSENSOR_INITIATOR | 0x8000, 1
0000, 8712
NF_F_TCP_SYN_TOTAL_COUNT, 2
NF_F_TCP_ACK_TOTAL_COUNT, 2
NF_F_TCP_FIN_TOTAL_COUNT, 2
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

IPv6流响应时间监控-模板349

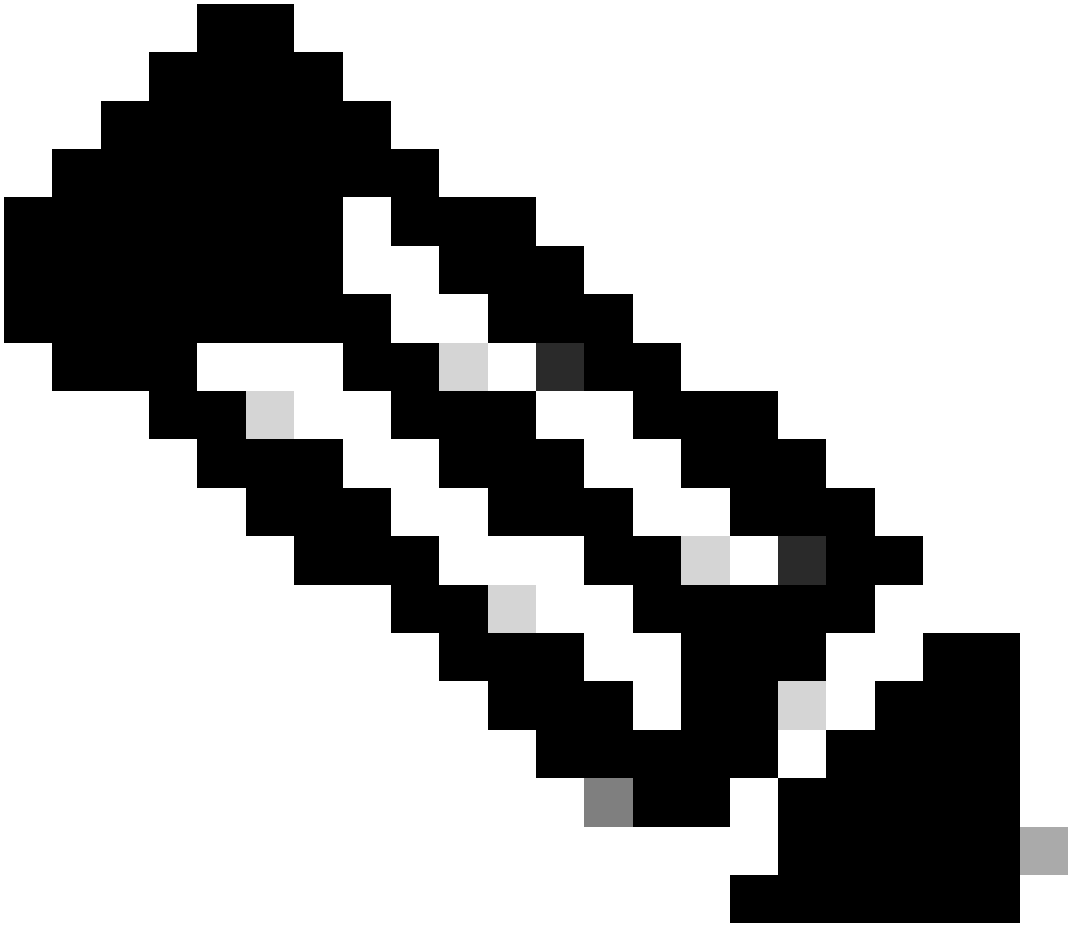


注意：在计算RTM数据后，此模板用于后续的IPFIX从流量传感器引擎的流插槽中导出IPv6流信息。

```
IPV6_FLOW_RTM_IPFIX_TEMPLATE_ID, 30
    NF_F_FIRST_SWITCHED, 4
    NF_F_LAST_SWITCHED, 4
    NF_F_SYSTEM_INIT_TIME_MILLISECONDS, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_L4_SRC_PORT, 2
    NF_F_L4_DST_PORT, 2
    NF_F_IN_BYTES, 4
    NF_F_IN_PKTS, 4
    NF_F_SRC_INTF_ID, 2
    NF_F_DST_INTF_ID, 2
    NF_F_PROTOCOL, 1
    NF_F_TCP_FLAGS, 1
    NF_F_MIN_TTL, 1
    NF_F_TCP_SYN_TOTAL_COUNT, 2
    NF_F_TCP_ACK_TOTAL_COUNT, 2
    NF_F_TCP_FIN_TOTAL_COUNT, 2
```

```
NF_F_TCP_RST_TOTAL_COUNT, 2
NF_F_FLOWSENSOR_TCP_BAD_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SRS_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TCP_SYN_ACK_TOTAL_COUNT | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_TRACES | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_PROTOCOL | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_TYPE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_EMB_ICMP_CODE | 0x8000, 1
0000, 8712
NF_F_FLOWSENSOR_RTT | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_SVR_RESP | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_RETRANSMITS | 0x8000, 2
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_ID | 0x8000, 4
0000, 8712
NF_F_FLOWSENSOR_APPLICATION_DETAILS | 0x8000, 65535
0000, 8712
```

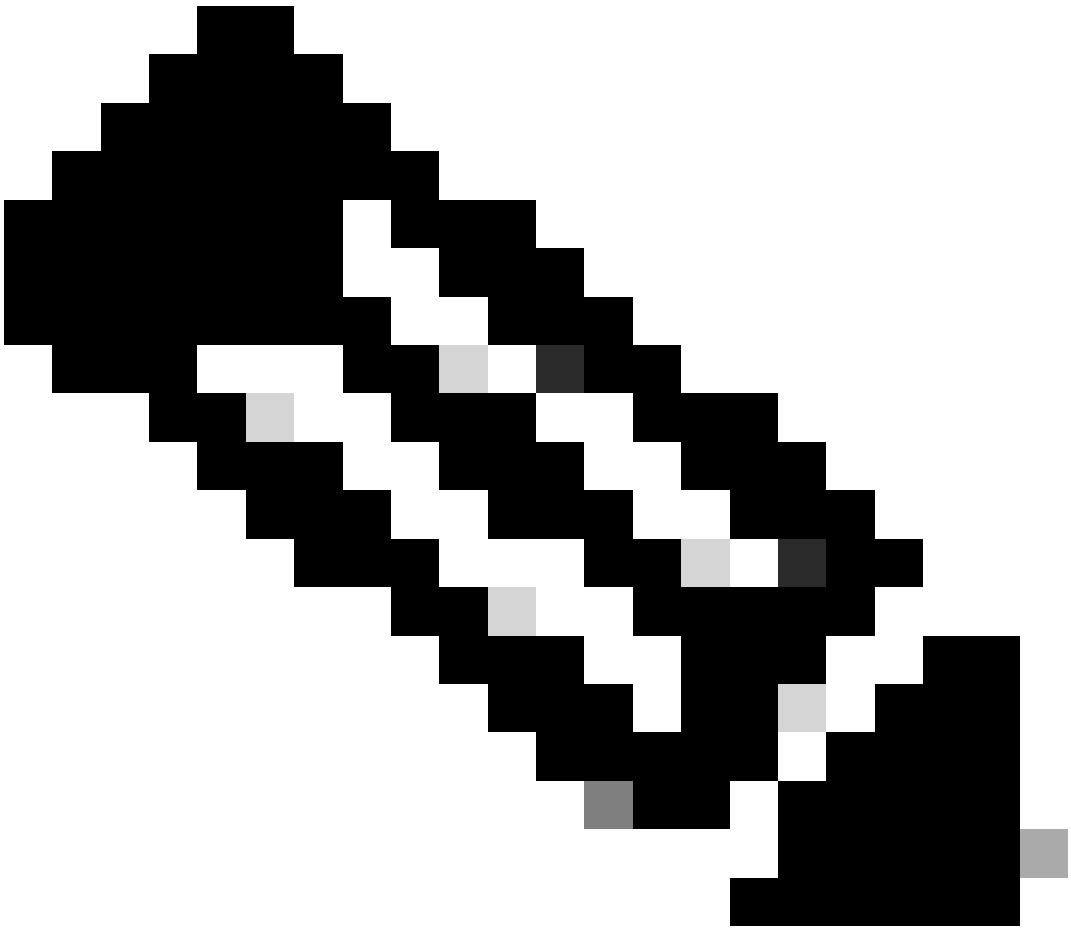
IPv4目标邮件计数IPFIX -模板350



注意：此模板用于流量传感器引擎检测到的目标IP地址收到的IPv4电子邮件计数信息的IPFIX导出。

```
IPV4_DST_EMAIL_COUNTS_IPFIX_TEMPLATE_ID, 8
    NF_F_SRC_ADDR_IPV4, 4
    NF_F_DST_ADDR_IPV4, 4
    NF_F_FLOWSENSOR_DST_EMAIL_IN | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_DST_EMAIL_OUT | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_DST_EMAIL_IN_MESS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_DST_EMAIL_OUT_MESS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_DST_EMAIL_IN_TRYS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYS | 0x8000, 4
    0000, 8712
```

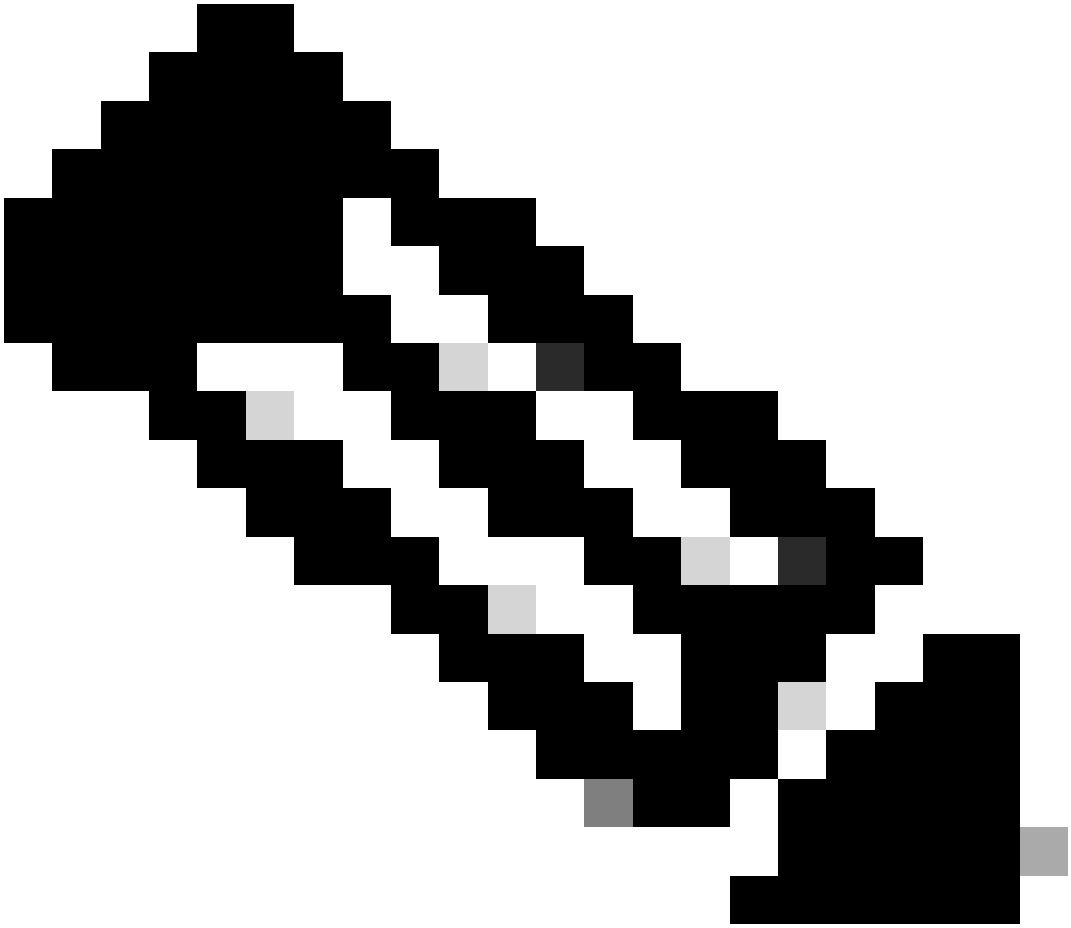
IPv6源电子邮件计数IPFIX -模板351



注意：此模板用于通过IPFIX导出源自流量传感器引擎检测到的源IP地址的IPv6邮件计数信息。

```
IPV6_SRC_EMAIL_COUNTS_IPFIX_TEMPLATE_ID, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_FLOWSENSOR_SRC_EMAIL_IN | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_SRC_EMAIL_IN_MESS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT_MESS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_SRC_EMAIL_IN_TRYS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_SRC_EMAIL_OUT_TRYS | 0x8000, 4
    0000, 8712
```

IPv6目标邮件计数IPFIX -模板352

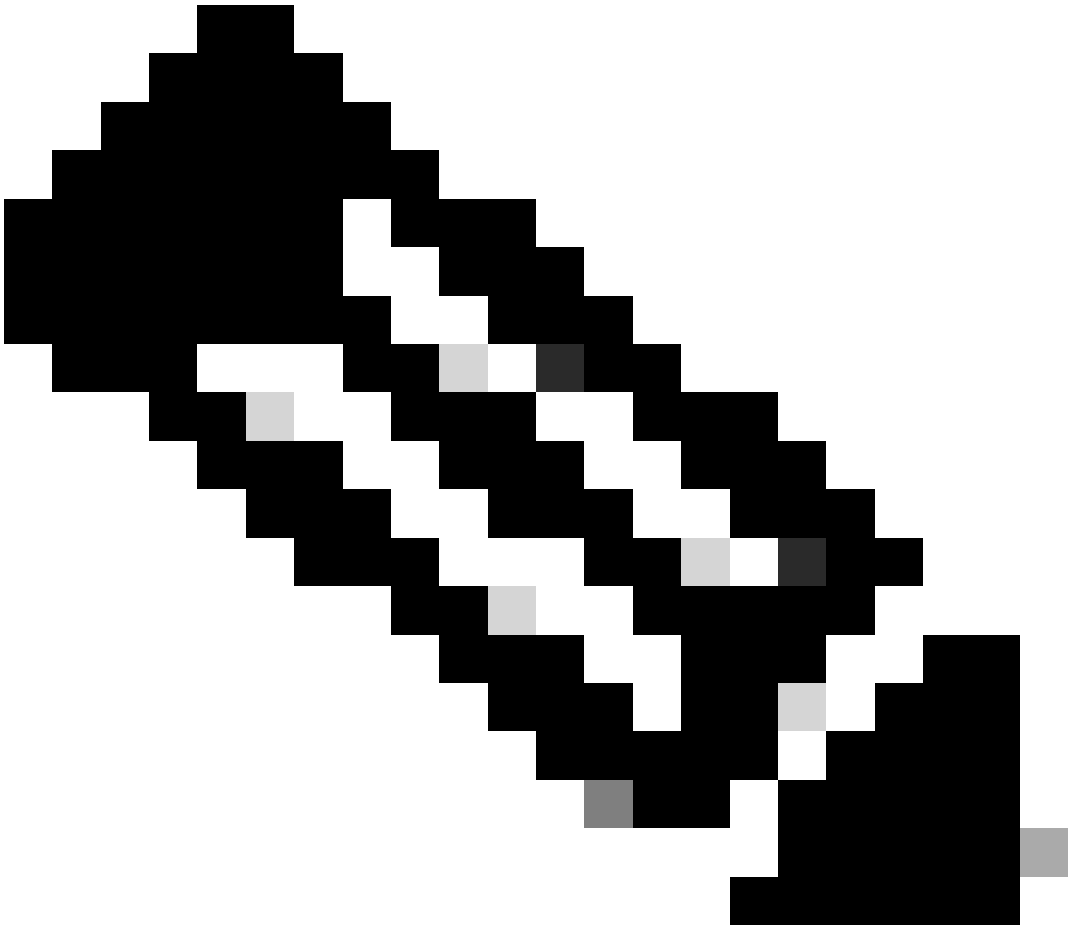


注意：此模板用于流量传感器引擎检测到的目标IP地址收到的IPv6电子邮件计数信息的IPFIX导出。

```
IPV6_DST_EMAIL_COUNTS_IPFIX_TEMPLATE_ID, 8
    NF_F_SRC_ADDR_IPV6, 16
    NF_F_DST_ADDR_IPV6, 16
    NF_F_FLOWSENSOR_DST_EMAIL_IN | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_DST_EMAIL_OUT | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_DST_EMAIL_IN_MESS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_DST_EMAIL_OUT_MESS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_DST_EMAIL_IN_TRYS | 0x8000, 4
    0000, 8712
    NF_F_FLOWSENSOR_DST_EMAIL_OUT_TRYS | 0x8000, 4
```

0000, 8712

ETTA模板353-372



注意：这些模板用于从流量传感器发送ETA数据。这些模板的内容不适用于本文的撰写。

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