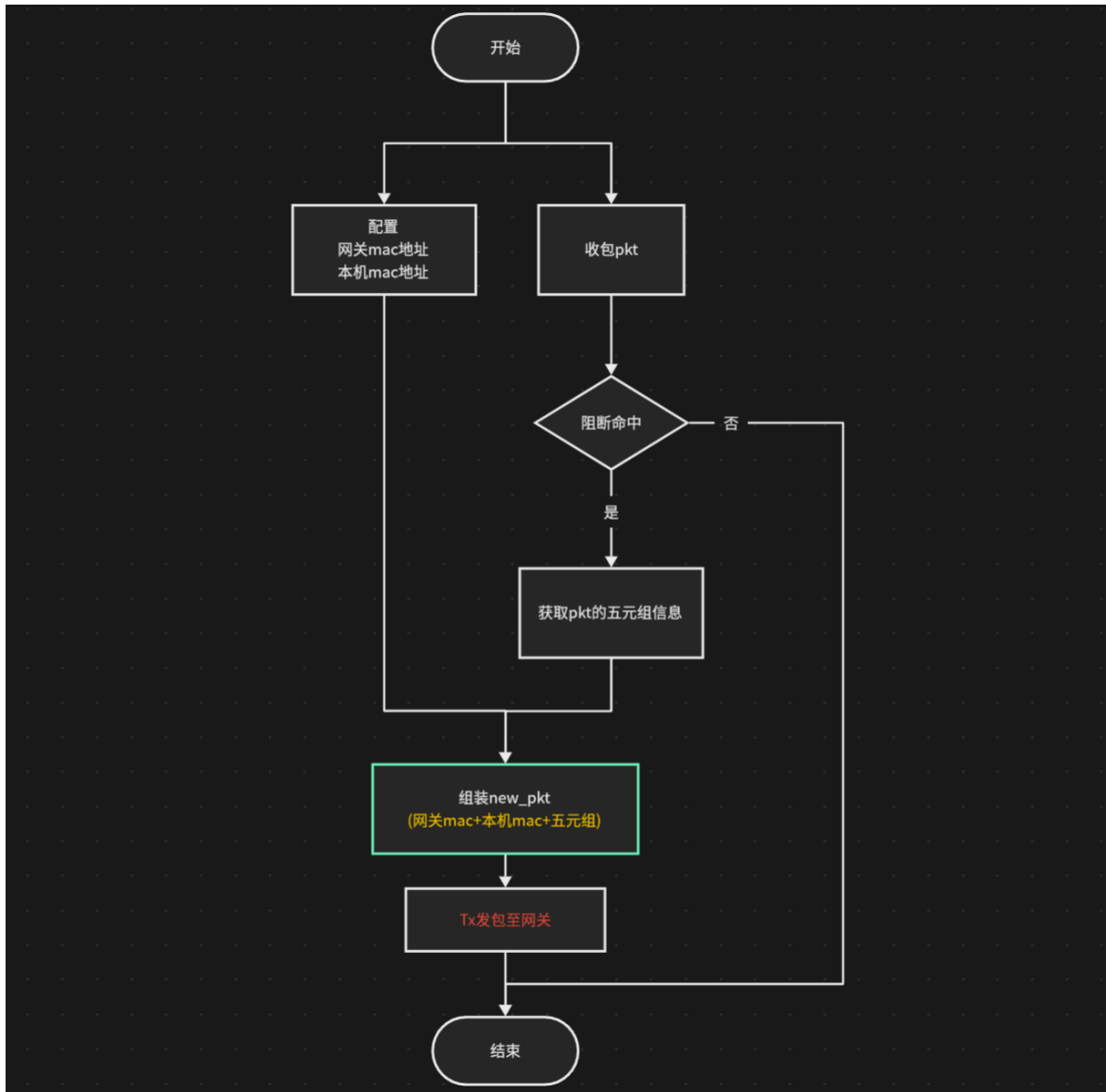


# suricata阻断项目手札

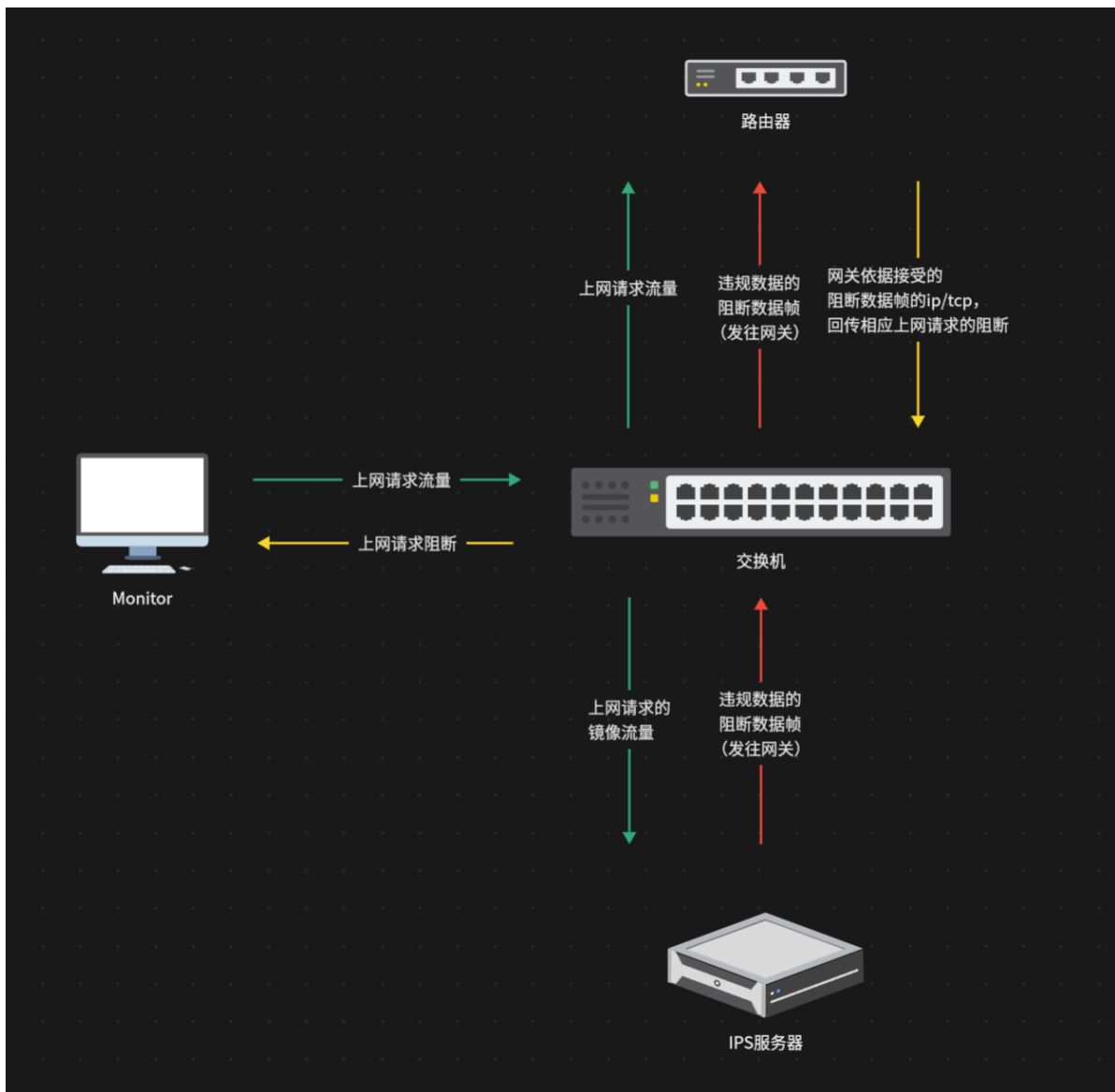
## 一、阻断逻辑流程



注意:

- 所使用的阻断数据包, 需要依据所阻断的pkt数据帧, 进行相应的Tcp层seq/ack值的计算;
- 阻断数据包的mac地址, 不使用原数据中两端的mac地址;

## 二、架构网络拓扑图



### 三、suricata的阻断使用

再suricata的使用中，要实现阻断的及时相应，有以下两种实践方法：

#### 1.使用单包的tcp阻断规则

```
1 reject tcp-pkt any any -> any any (msg: "ATTACK [PTsecurity] Spring Core RCE  
aka Spring4Shell Attempt"; content: "news.cn"; reference: url,  
github.com/ptresearch/AttackDetection; reference: url,  
www.cyberkendra.com/2022/03/springshell-rce-0-day-vulnerability.html;  
classtype: attempted-admin; sid: 10007107; rev: 1;)
```

在suricata中，单包规则就会执行：来一个pkt，就对该包tcp的payload部分进行content规则匹配，从而进行rst阻断可以更及时。

## 2.使用流stream的阻断规则

```
1 reject http any any -> any any (msg: "ATTACK [PTsecurity] Spring Core RCE aka
  Spring4Shell Attempt"; flow: established, to_server; http.host;content:
  "news.cn"; reference: url, github.com/ptresearch/AttackDetection; reference:
  url, www.cyberkendra.com/2022/03/springshell-rce-0-day-vulnerability.html;
  classtype: attempted-admin; sid: 10007107; rev: 1;)
2 reject tcp any any -> any any (msg: "ATTACK [PTsecurity] Spring Core RCE aka
  Spring4Shell Attempt"; content: "news.cn"; reference: url,
  github.com/ptresearch/AttackDetection; reference: url,
  www.cyberkendra.com/2022/03/springshell-rce-0-day-vulnerability.html;
  classtype: attempted-admin; sid: 10007107; rev: 1;)
3
```

### 第一步：开启stream处理inline模式：

```
stream:
  memcap: 40gb
  #memcap-policy: ignore
  checksum-validation: no      # reject incorrect csums
  midstream: true
  midstream-policy: auto
  inline: yes                  # auto will use inline mode in IPS mode, yes or no set it statically
  reassembly:
    memcap: 40gb
    #memcap-policy: ignore
    depth: 0                   # reassemble 1mb into a stream
    toserver-chunk-size: 2560
    toclient-chunk-size: 2560
    randomize-chunk-size: yes
    #randomize-chunk-range: 10
    #raw: yes
    #segment-prealloc: 2048
    #check-overlap-different-data: true
# Host table:
#
```

### 第二步：开启IPS

1、对于程序支持IPS使用，则在相应的网卡配置中指定：ips模式

```
# IPS mode for Suricata works in 3 modes - none, tap, ips
# - none: IDS mode only - disables IPS functionality (does not further forward packets)
# - tap: forwards all packets and generates alerts (omits DROP action) This is not DPDK TAP
# - ips: the same as tap mode but it also drops packets that are flagged by rules to be dropped
conv-mode: none
```

2、程序不方便开启IPS模式，可以使用的一种

```
1 1、命令行指定强行使用IPS(该模式下)
2 --simulate-ips
```