

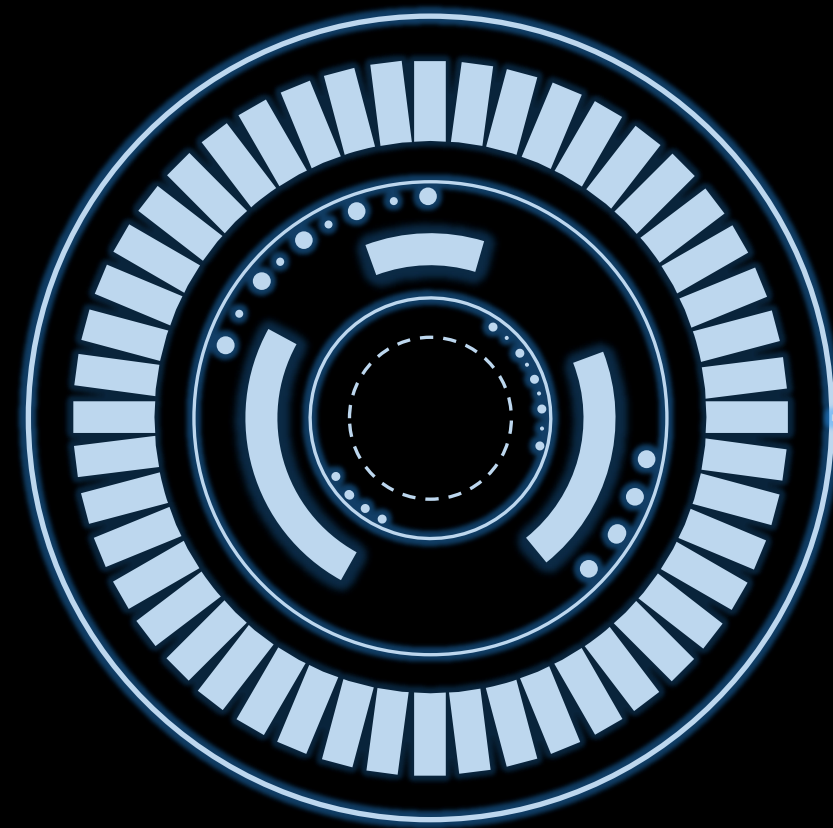
# Project: Arkime

## NT534.N21.ATCL

GROUP 06

- MEMBERS:

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- + NGO VO VIET KHOA – 17520642
- + NGUYEN DINH KHA – 20520562
- + BUI HUU KHANH - 18520897





**Arkime**





Creator: Andy Wick / AOL / Verizon



Arkime (formerly Moloch) augments your current security infrastructure to store and index network traffic in standard PCAP format, providing fast, indexed access. An intuitive and simple web interface is provided for PCAP browsing, searching, and exporting.





Large scale, open source, indexed packet capture and search

Available under Apache 2.0 open-source license

- Available at <https://arkime.com>

Comprised of three components:

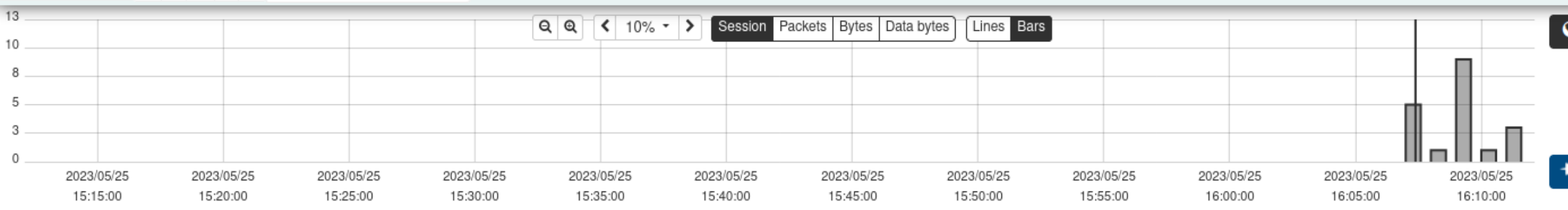
- Capture: threaded C application
- Viewer: Intuitive node.js application
- Elasticsearch



Search

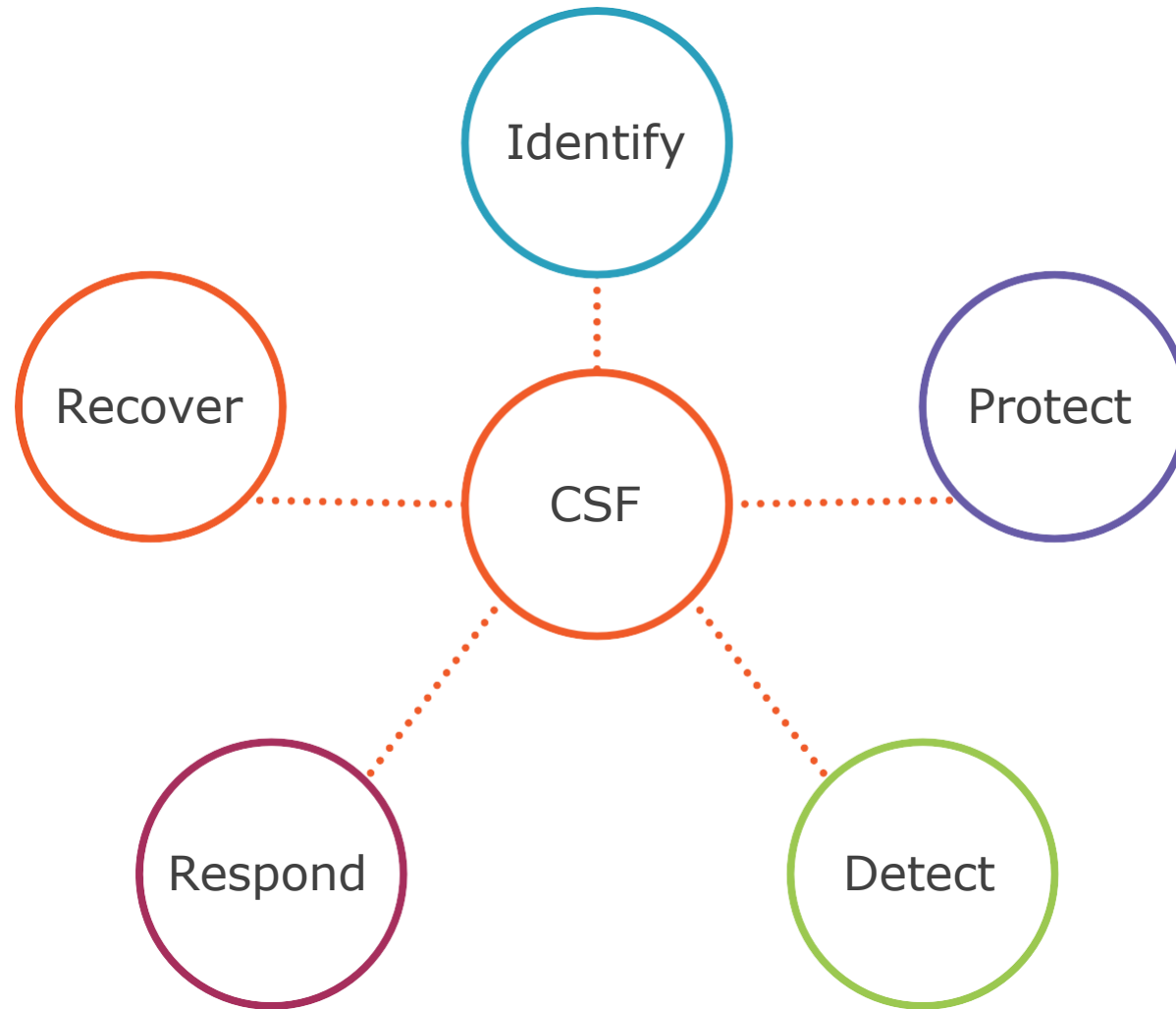
Last hour Start 2023/05/25 15:12:07 End 2023/05/25 16:12:07 Bounding Last Packet Interval Auto

50 per page Showing 1 - 19 of 19 entries

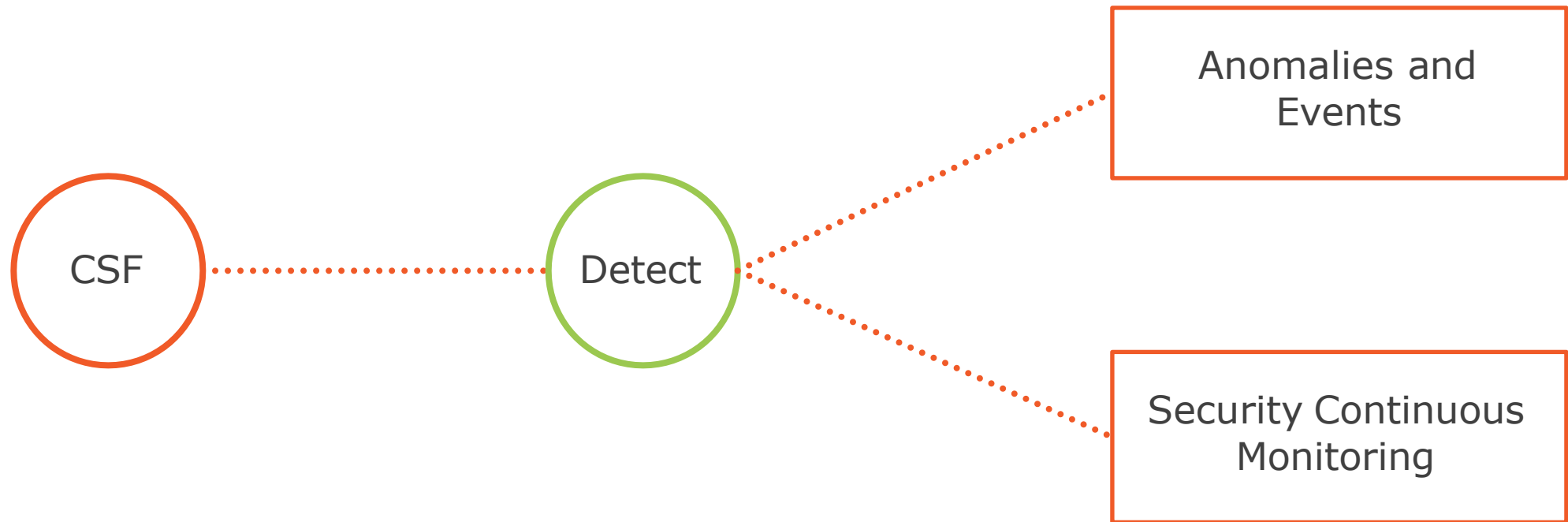


		Start Time	Stop Time	Src IP / Country	Src Port	Dst IP / Country	Dst Port	Packets	Databytes / Bytes	Arkime Node	Info
+	udp	2023/05/25 16:11:04	2023/05/25 16:11:06	192.168.203.1	137	192.168.203.255	137	3	150 276	arkime-virtual-mach	
+	udp	2023/05/25 16:11:03	2023/05/25 16:11:03	192.168.203.139	54273	192.168.203.2	53	2	284 368	arkime-virtual-mach	Host connectivity-check.ubuntu.com
+	udp	2023/05/25 16:11:02	2023/05/25 16:11:02	192.168.203.139	35775	185.125.190.58	123	2	96 180	arkime-virtual-mach	
+	udp	2023/05/25 16:10:04	2023/05/25 16:10:06	192.168.203.1	137	192.168.203.255	137	3	150 276	arkime-virtual-mach	
+	udp	2023/05/25 16:09:41	2023/05/25 16:09:44	192.168.203.1	64957	239.255.255.250	1900	4	700 868	arkime-virtual-mach	
+	udp	2023/05/25 16:09:40	2023/05/25 16:09:43	192.168.203.1	58183	239.255.255.250	1900	4	700 868	arkime-virtual-mach	
+	udp	2023/05/25 16:09:36	2023/05/25 16:09:36	192.168.203.139	5353	224.0.0.251	5353	1	45 87	arkime-virtual-mach	Host _ipps_tcp.local _ipp_tcp.local
+	udp	2023/05/25 16:09:35	2023/05/25 16:09:35	fe80::ad00:3928:df07:bcf9	5353	ff02::fb	5353	1	45 107	arkime-virtual-mach	Host _ipps_tcp.local _ipp_tcp.local
+	udp	2023/05/25 16:09:33	2023/05/25 16:09:33	192.168.203.1	5353	224.0.0.251	5353	4	202 370	arkime-virtual-mach	Host _microsoft_mcc_tcp.local

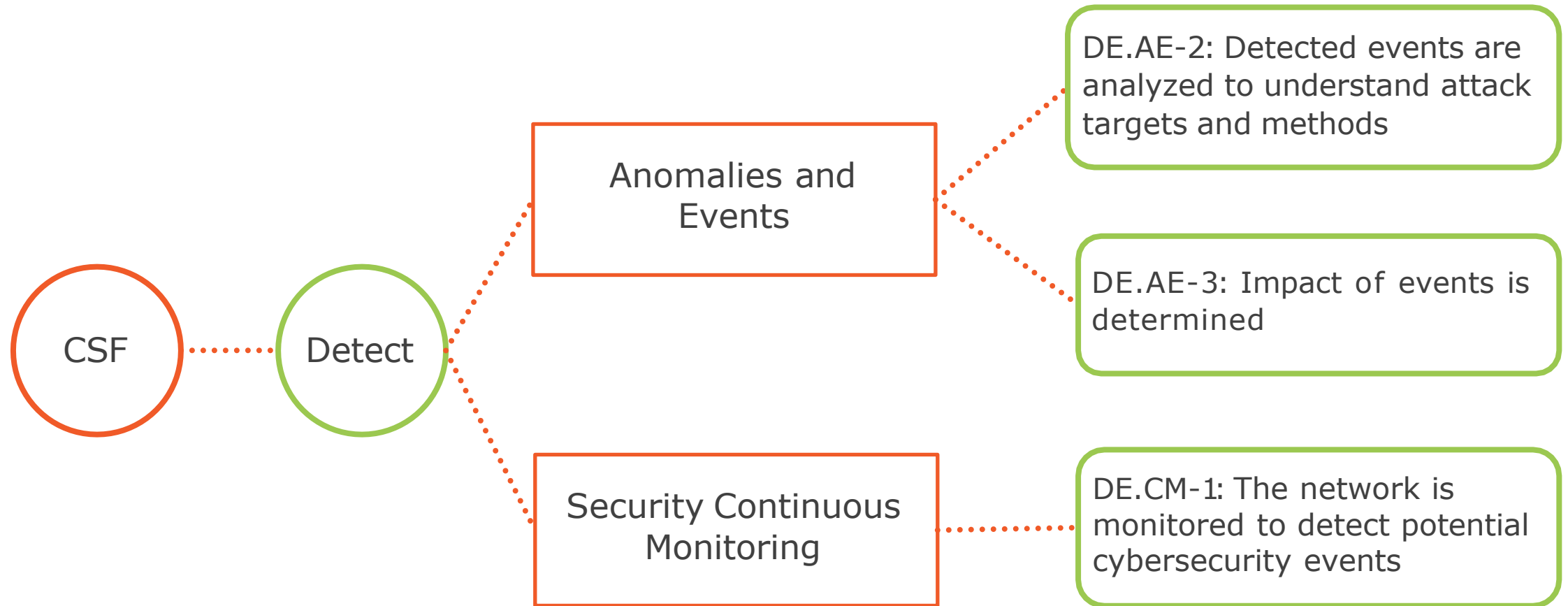
# NIST Cybersecurity Framework



# NIST Cybersecurity Framework



# NIST Cybersecurity Framework





# MITRE ATT&CK

Data Analysis Type

Network Analysis

OS Analysis

Application Analysis

Infrastructure Analysis

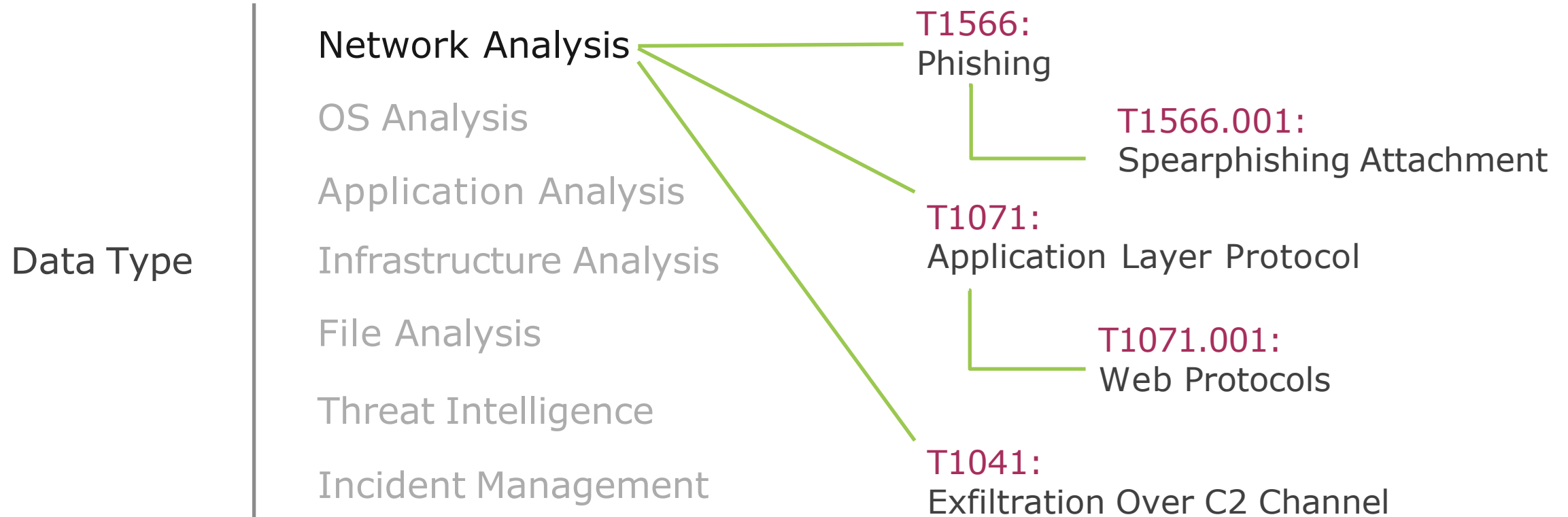
File Analysis

Threat Intelligence

Incident Management



# MITRE ATT&CK



# MITRE SHIELD

T1566:  
Phishing

[DTE0021 – Hunting](#): The process of searching for the presence of or information about an adversary.

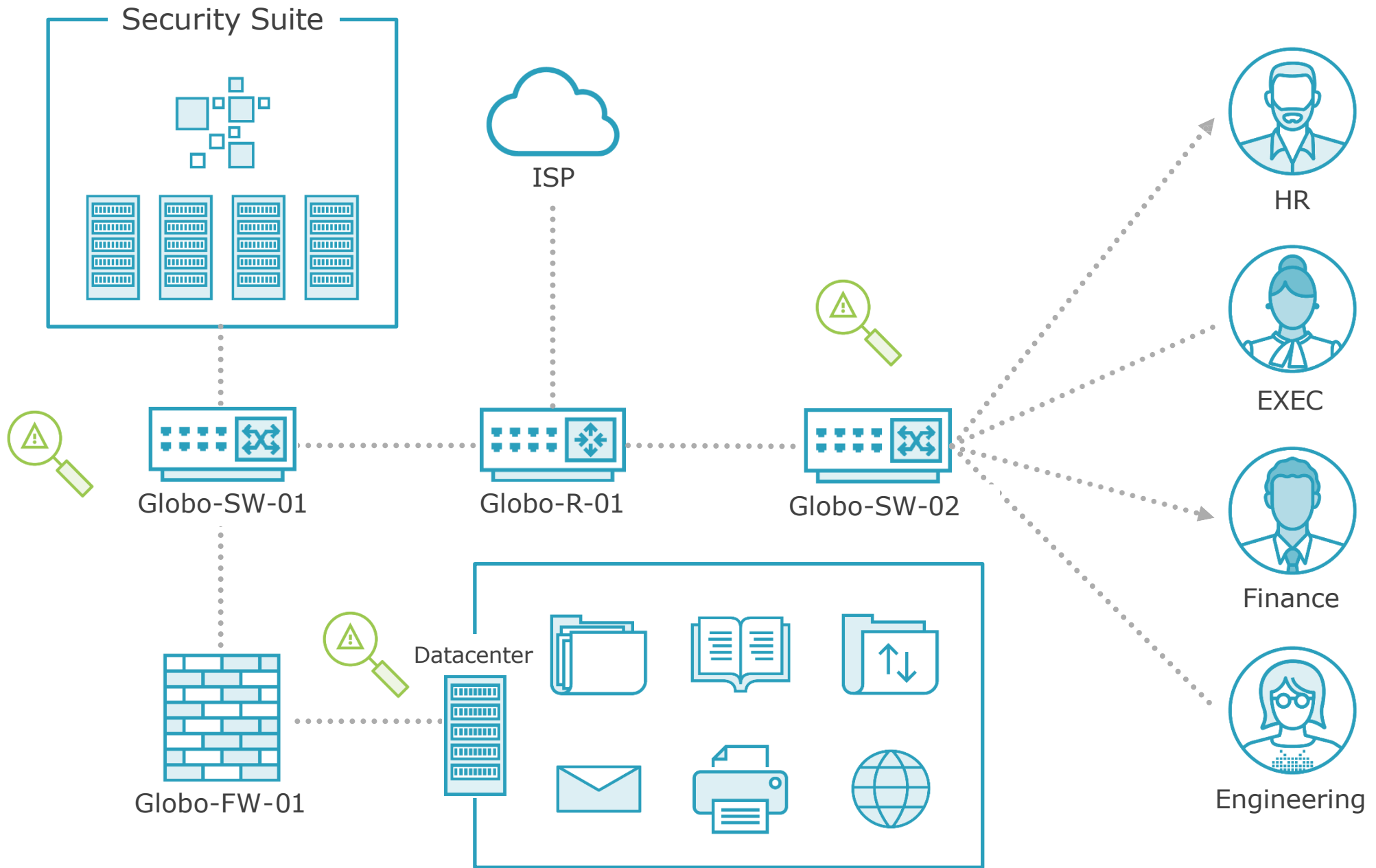
T1071:  
Application Layer Protocol

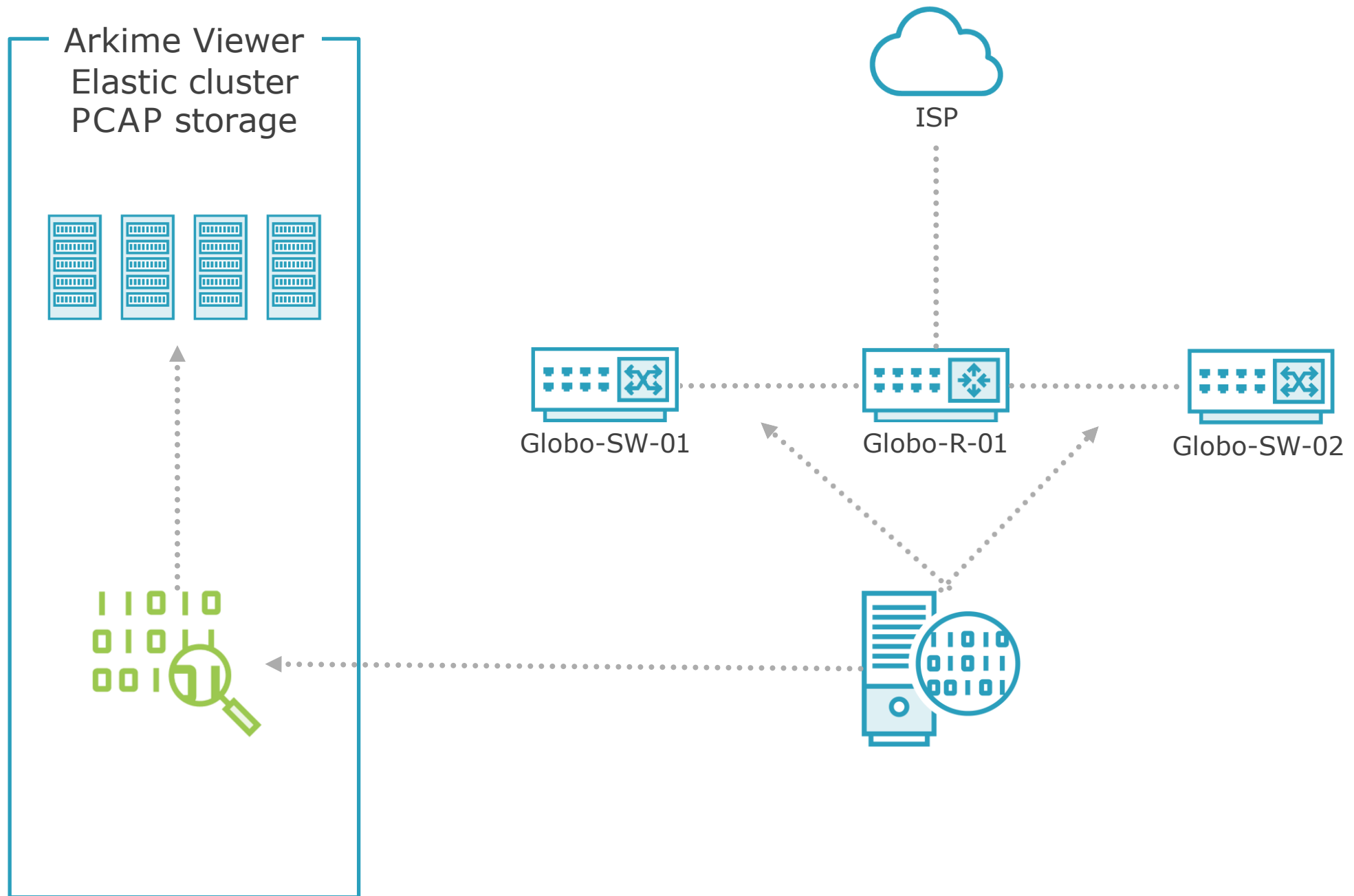
[DTE0027 – Network Monitoring](#): The defender can implement network monitoring for and alert on anomalous traffic patterns, large or unexpected data transfers, and other activity that may reveal the presence of an adversary. ([DUC0141](#))

T1041:  
Exfiltration Over C2 Channel

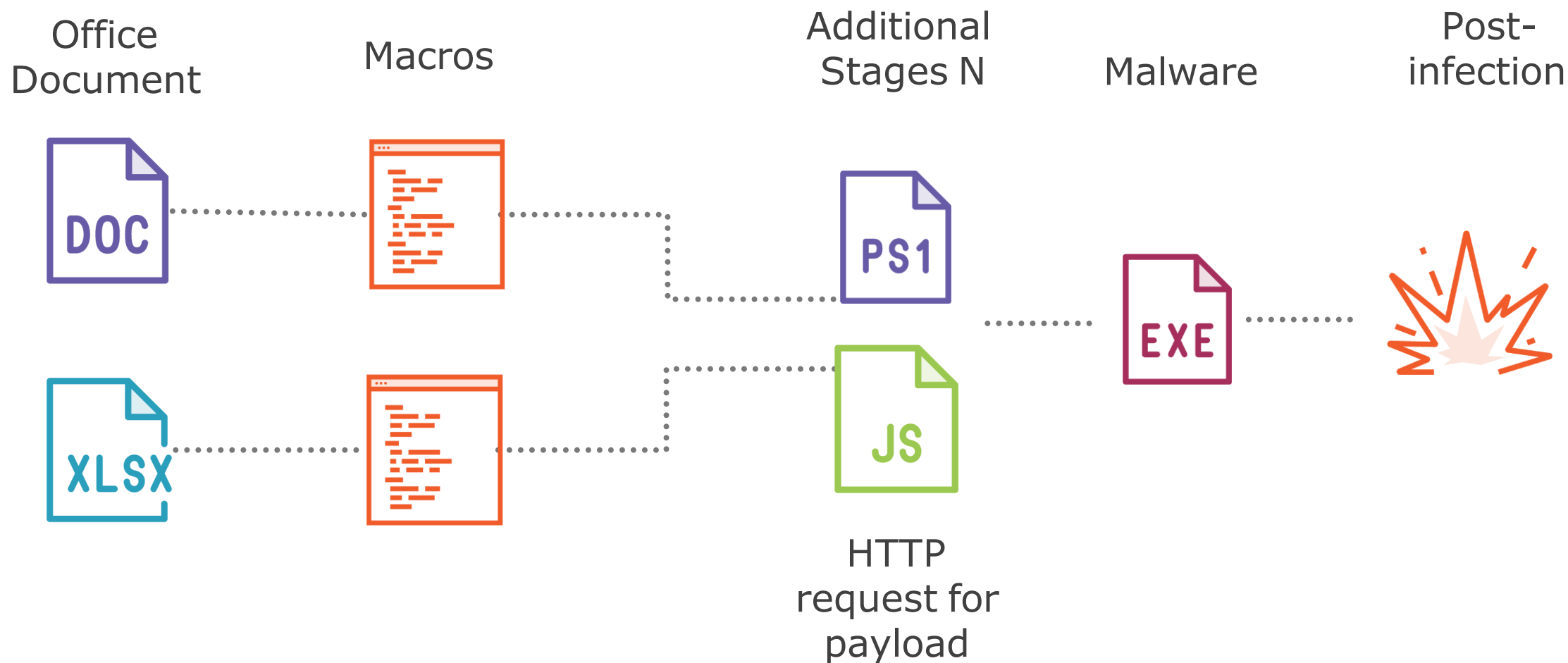
[DTE0028 – PCAP Collection](#): Collecting full packet capture of all network traffic allows you to review what happened over the connection and identify command and control traffic and/or exfiltration activity ([DUC0170](#))







# Phishing with Attachments

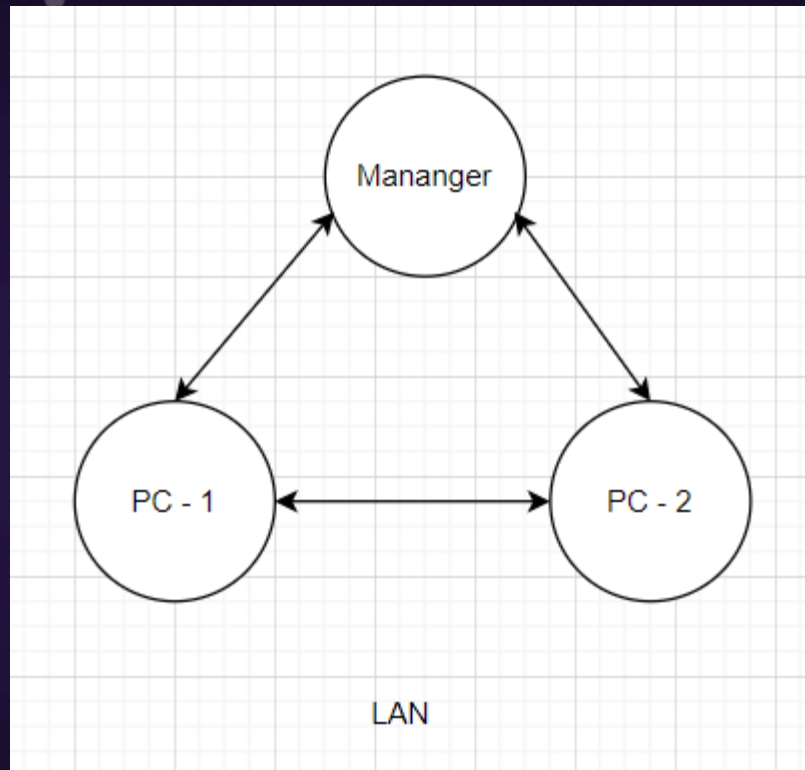


# ARKIME DEMO

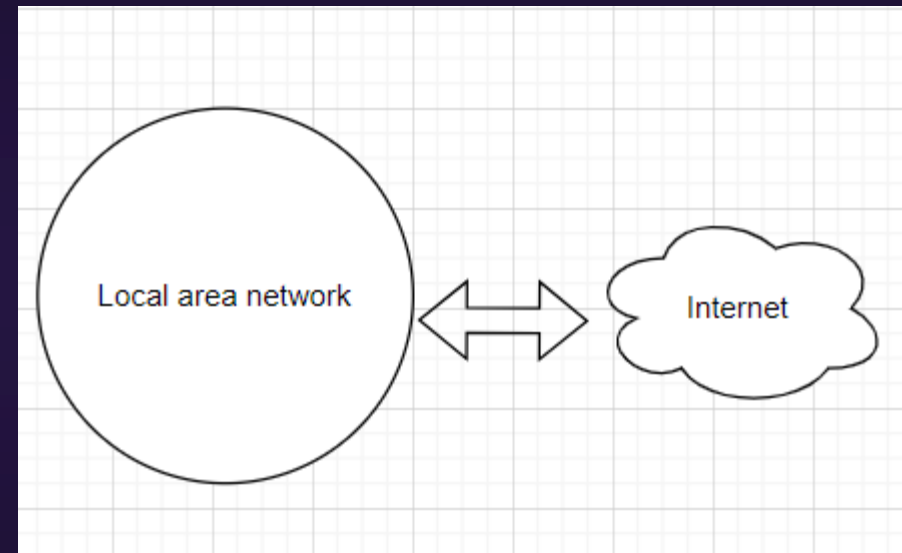
Network analysis with Arkime



Demo 1



Demo 2, 3





# What is Suricata ?



- As a NG IDS/IPS
- Can handle high-speed network traffic and provides detailed analysis capabilities with powerful rules.
- It can be integrated with other technologies





**THANKS FOR WATHCHING !**

