

# Detection Strategy for Exfiltration Over C2 Channel, Detection Strategy DET0348

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## AN0988

Identifies suspicious outbound traffic volume mismatches from processes that typically do not generate network activity, particularly over C2 protocols like HTTPS, DNS, or custom TCP/UDP ports, following file or data access.

### Log Sources

### Mutable Elements

| Field                | Description  |
|----------------------|--|
| DataVolumeThreshold  | Set threshold for outbound transfer size exceeding typical C2 traffic (e.g., >1MB in <5min). |
| KnownBenignProcesses | List of approved processes that may exhibit high outbound traffic (e.g., updates).           |

## AN0989

Monitors for processes reading sensitive files then immediately initiating unusual outbound connections or bulk transfer sessions over persistent sockets, particularly with encrypted or binary payloads.

### Log Sources

### Mutable Elements

| Field                | Description  |
|----------------------|--|
| OutboundEntropyScore | Threshold for high-entropy payloads indicative of encoded or encrypted exfil data.       |
| ConnectionDuration   | Defines length of time over which transfer size must be aggregated to trigger detection. |

## AN0990

Detects unauthorized applications or scripts accessing sensitive data followed by establishing encrypted outbound communication to rare external destinations or with abnormal byte ratios.

**Log Sources**

**Mutable Elements**

| Field                 | Description   |
|-----------------------|---|
| ParentProcessAncestry | Enables defenders to tune legitimate vs. suspicious lineage (e.g., launchd → curl is uncommon). |
| ProtocolList          | Focus detection on unusual protocols (e.g., IRC, FTP, DNS over HTTPS).                          |

**AN0991**

Detects VMs sending outbound traffic through non-standard services or to unknown destinations. Exfiltration over reverse shells tunneled via VMkernel or custom payloads routed via hostd/vpxa.

**Log Sources**

**Mutable Elements**

| Field                   | Description   |
|-------------------------|---|
| GuestOSAllowList        | Limit detection to sensitive or externally-exposed VMs handling confidential data.    |
| TransferSizeThresholdMB | Minimum outbound transfer size before flagging anomalous C2-based exfiltration.       |
| ProtocolAllowList       | Define expected protocols for outbound data (e.g., disallow FTP/SCP over high ports). |

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Source: <https://attack.mitre.org/detectionstrategies/DET0348#AN0990>