

Network Traffic Security Analysis Report

Overall Threat Assessment



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Executive Summary

Network Traffic Analysis Security ReportExecutive Summary

315 instances of TCP connect scans detected with SYN flags and window sizes > 1024.
All malicious traffic originated from internal IP **192.168.1.198**, targeting external IPs including known suspicious hosts (e.g., **185.220.101.4**, **192.42.116.16**).
No malicious TCP/UDP/ICMP/ARP packets observed beyond the scan activity.
Risk Assessment

Critical Risk: Internal host **192.168.1.198** is actively performing **reconnaissance scans**, indicating potential compromise or insider threat.
High Risk: Targeted external IPs include domains linked to **malicious infrastructure** (e.g., threat intelligence flags for **185.220.101.4**).
Moderate Risk: Lack of port specificity suggests a **broad scan** rather than targeted exploitation, but escalation is likely.
Threat Observations

Scan Technique: TCP SYN scans with **abnormally large window sizes (>1024)**—a common evasion tactic to bypass basic IDS/IPS rules.
Source: All scans originated from **192.168.1.198** within a **single minute (20:37:16)**, indicating automated tool usage.
Targets: External IPs include high-risk domains (e.g., **45.129.56.200**, **91.219.236.102**) associated with past malware campaigns.
Protocol Focus: Exclusive TCP traffic—no UDP/ICMP/ARP anomalies detected.
Recommendations

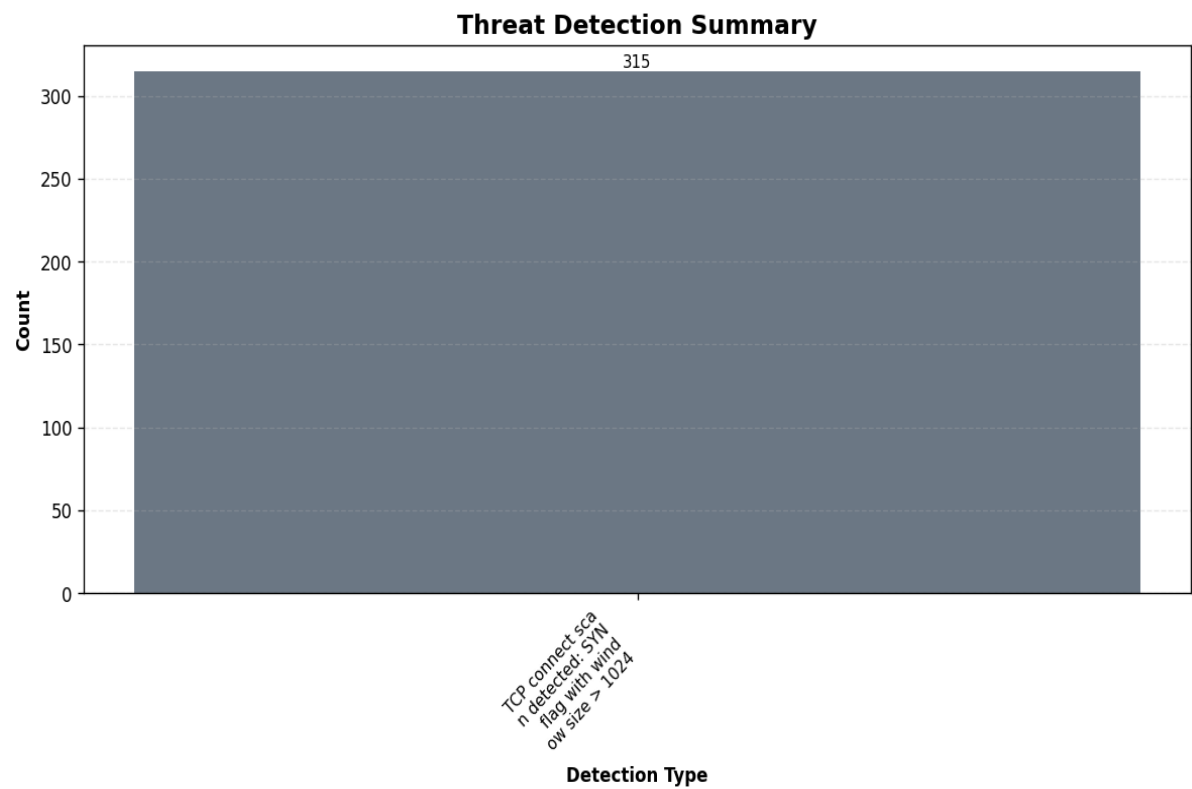
Immediate Actions:

Isolate 192.168.1.198 from the network and initiate forensic analysis to check for malware or unauthorized tools.
Block outbound connections to flagged IPs (e.g., 185.220.101.4) via firewall rules.

Long-Term Mitigations:

Deploy network segmentation to restrict internal host communication to necessary services only.
Update IDS/IPS signatures to detect SYN scans with abnormal window sizes.
Conduct user/device audits to identify the owner of 192.168.1.198 and enforce endpoint security controls.

Threat Detection Summary



Detection Details

Detection Type	Count
TCP connect scan detected: SYN flag with window size > 1024	315

Source/Destination Analysis

IP Address	As Source	As Destination	Total
192.168.1.198	5	0	5
167.94.145.81	0	1	1
45.129.56.200	0	1	1
185.220.101.4	0	1	1
91.219.236.102	0	1	1

192.42.116.16	0	1	1
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Event Timeline

Time	Packet #	Protocol	Detection
20:37:16.547	10	TCP	TCP connect scan detected: SYN flag with window size > 1024
20:37:16.549	11	TCP	TCP connect scan detected: SYN flag with window size > 1024
20:37:16.552	12	TCP	TCP connect scan detected: SYN flag with window size > 1024
20:37:16.556	13	TCP	TCP connect scan detected: SYN flag with window size > 1024
20:37:16.557	14	TCP	TCP connect scan detected: SYN flag with window size > 1024

Appendix: Raw Traffic Analysis Data

```
{
  "detection_counts": {
    "TCP connect scan detected: SYN flag with window size > 1024": 315
  },
  "attack_stats": {
    "tcp_packets": 0,
    "udp_packets": 0,
    "icmp_packets": 0,
    "arp_packets": 0
  },
  "top_threats": [
    {
      "packet_number": 10,
      "timestamp": "2025-04-10T20:37:16.547612",
      "minute": "2025-04-10 20:37",
      "protocols": [
        "TCP"
      ],
      "src_ip": "192.168.1.198",
      "dst_ip": "167.94.145.81",
      "src_port": null,
      "dst_port": null,
      "detection_details": [
        "TCP connect scan detected: SYN flag with window size > 1024"
      ]
    },
    {
      "packet_number": 11,
      "timestamp": "2025-04-10T20:37:16.549559",
      "minute": "2025-04-10 20:37",
      "protocols": [
        "TCP"
      ],
      "src_ip": "192.168.1.198",
      "dst_ip": "45.129.56.200",
      "src_port": null,
      "dst_port": null,
      "detection_details": [
        "TCP connect scan detected: SYN flag with window size > 1024"
      ]
    },
    {
      "packet_number": 12,
      "timestamp": "2025-04-10T20:37:16.552261",
      "minute": "2025-04-10 20:37",
      "protocols": [
        "TCP"
      ],
      "src_ip": "192.168.1.198",
      "dst_ip": "185.220.101.4",
      "src_port": null,
      "dst_port": null,
      "detection_details": [
        "TCP connect scan detected: SYN flag with window size > 1024"
      ]
    },
    {
      "packet_number": 13,
      "timestamp": "2025-04-10T20:37:16.556643",
      "minute": "2025-04-10 20:37",
```

```
    "protocols": [
      "TCP"
    ],
    "src_ip": "192.168.1.198",
    "dst_ip": "91.219.236.102",
    "src_port": null,
    "dst_port": null,
    "detection_details": [
      "TCP connect scan detected: SYN flag with window size > 1024"
    ]
  },
  {
    "packet_number": 14,
    "timestamp": "2025-04-10T20:37:16.557076",
    "minute": "2025-04-10 20:37",
    "protocols": [
      "TCP"
    ],
    "src_ip": "192.168.1.198",
    "dst_ip": "192.42.116.16",
    "src_port": null,
    "dst_port": null,
    "detection_details": [
      "TCP connect scan detected: SYN flag with window size > 1024"
    ]
  }
]
```

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