



Conti-Ransomware auf dem Operationstisch

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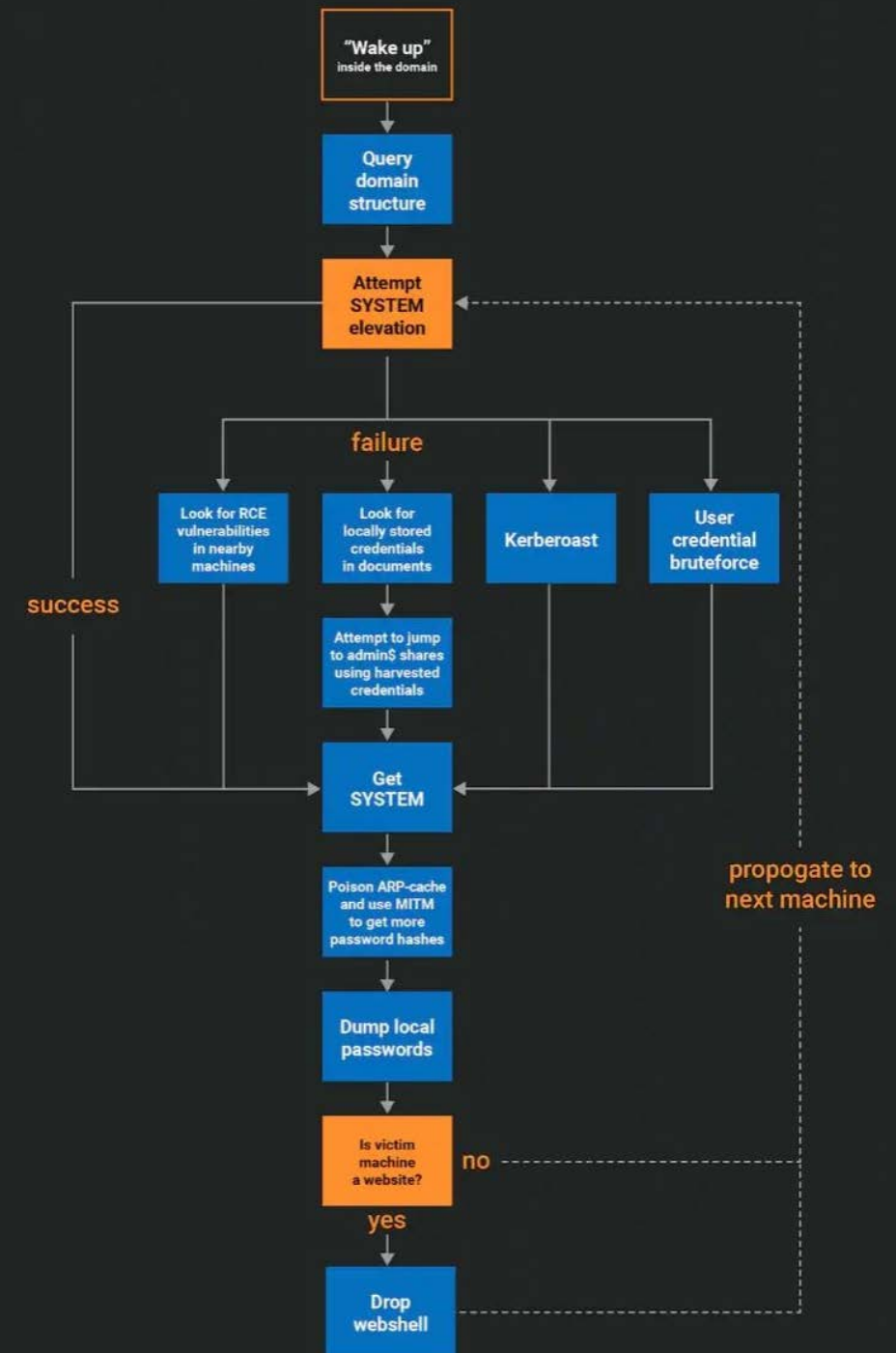


Conti and the Hacker's Manual

Conti is a ransomware gang with revenues projected at almost \$200M.

On February 27, 2022, the Twitter handle @contileaks began leaking internal documents and chat logs of the group, as well as the addresses of some of their internal servers and source code.

Akamai researchers analyzed this and published their "Hacker's Manual"



MITRE ATT&CK™

A useful framework for articulating modern attacks.

Tactics: The adversary's tactical goal: the reason for performing an action.

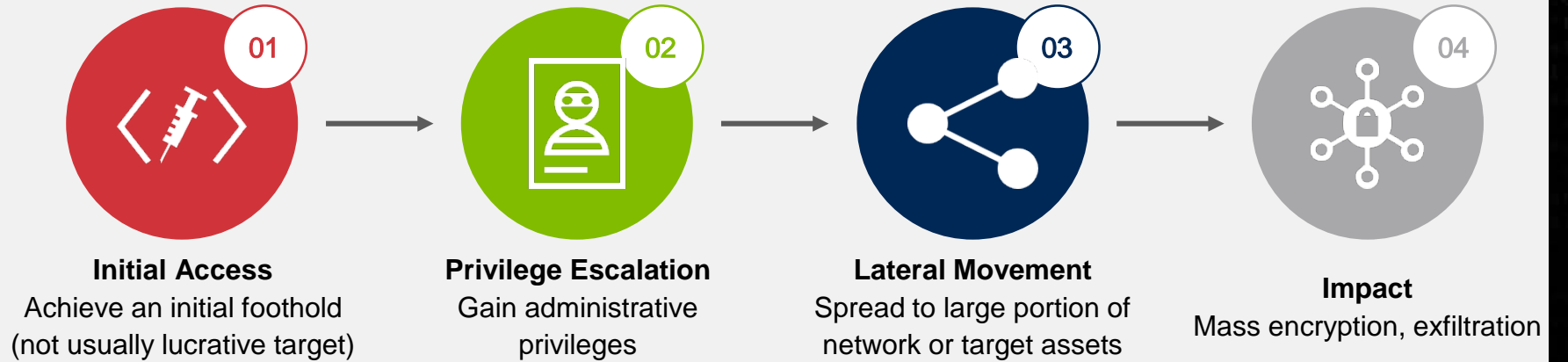
Techniques: The means by which an adversary achieves a tactical goal.

Simplified Attack Chain

Key Phases

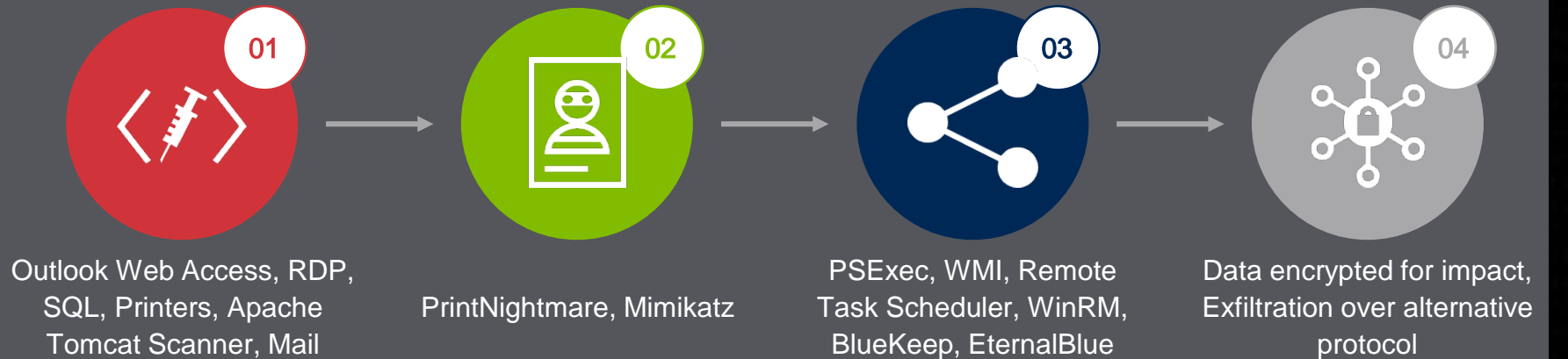
Tactics

Ransomware does not begin and end with encryption. Multiple adversarial tactics precede disaster.



Techniques

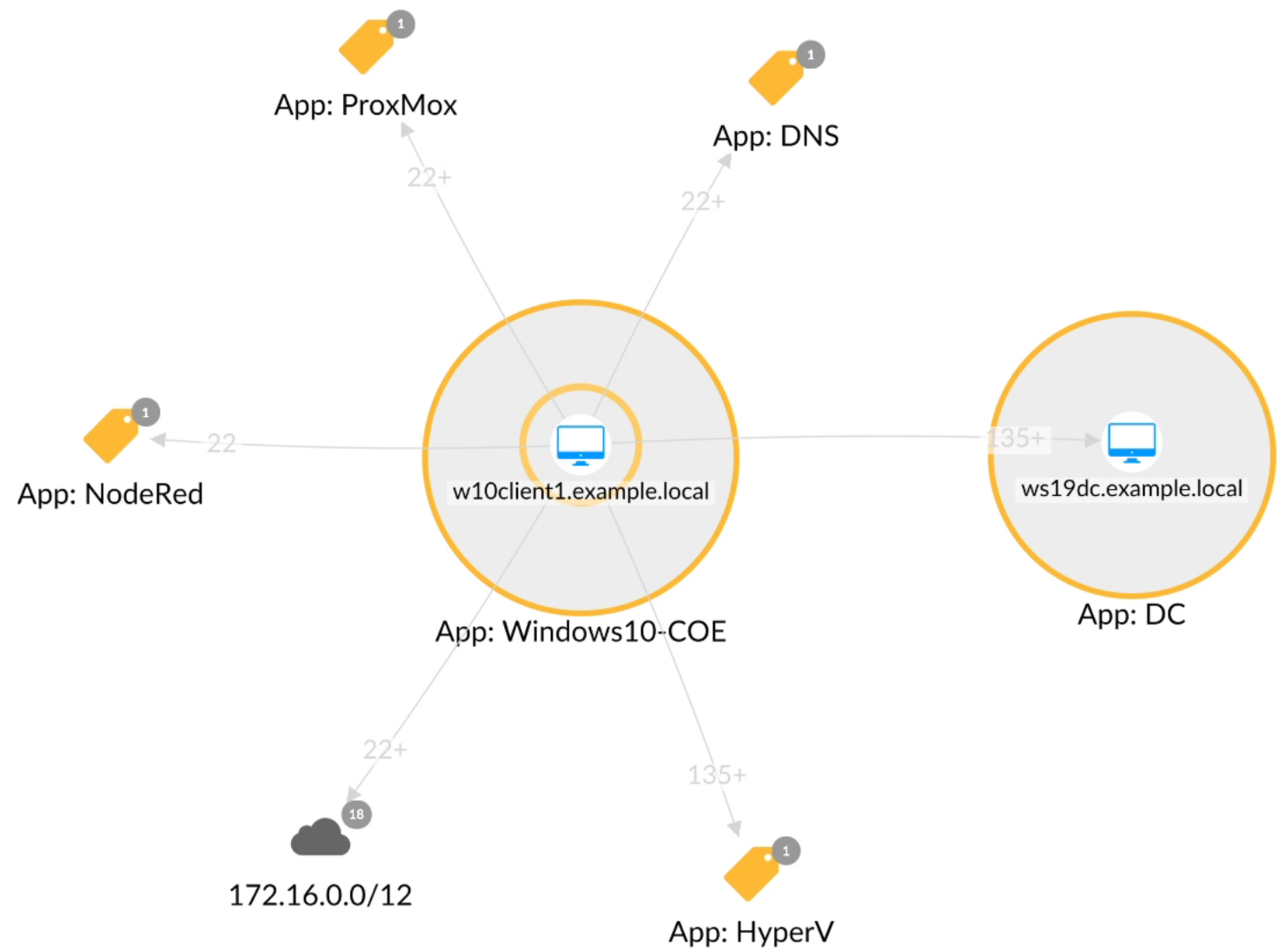
Conti has an arsenal of techniques to enable their tactics to succeed depending on the circumstances.



Live Demo




Map: Unfiltered map | Filter | Group By: App | 2022-08-03 20:09 - 21:09 | Highlight by name | [Close] | [Share] | [Save]



w10client1.example.local (On)


Information


From installed agent ([Download Policy](#))


Name	w10client1.example.local
OS	 Windows Microsoft Windows 10 Enterprise 6.2 Version 6.2
CPUs	1 Architecture: amd64
Agent Version	5.42.22098.12204
IP Addresses	172.27.7.202 fe80::4cdd:af55:a6d8:789f
MAC Addresses	00:15:5d:07:04:0c

Labels

Key	Value
Add	

 Segmentation Policy

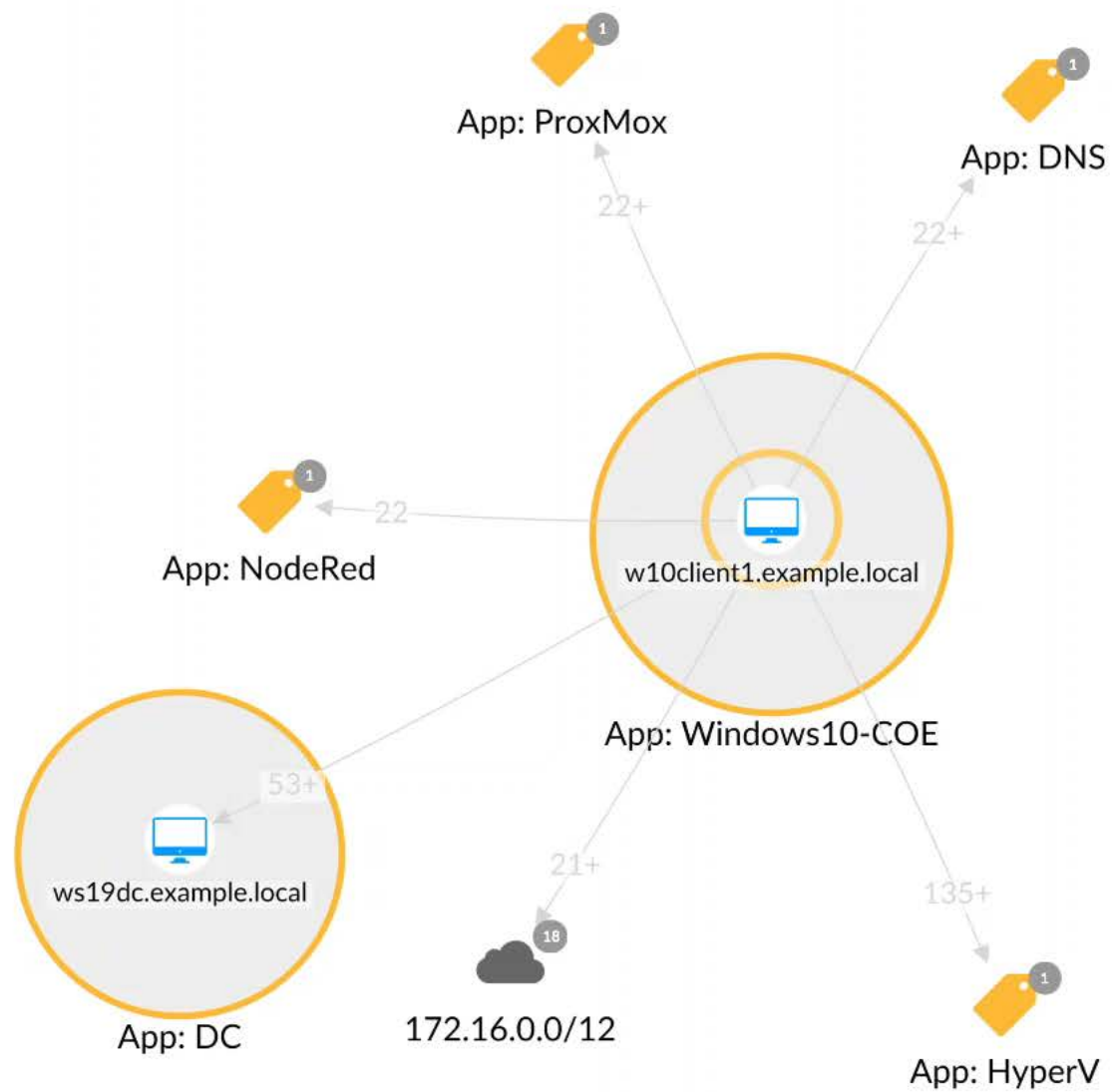
 Related Incidents

 DNS Requests

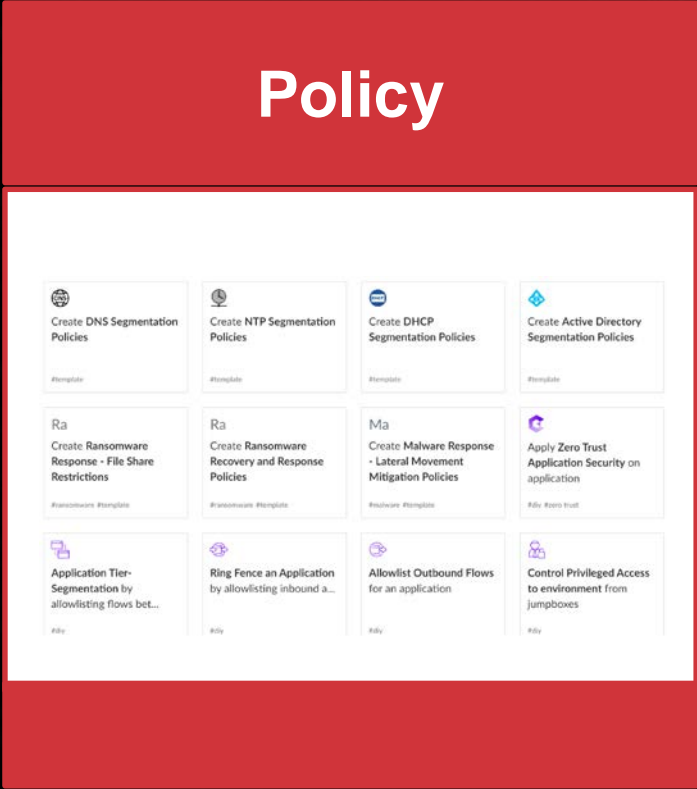
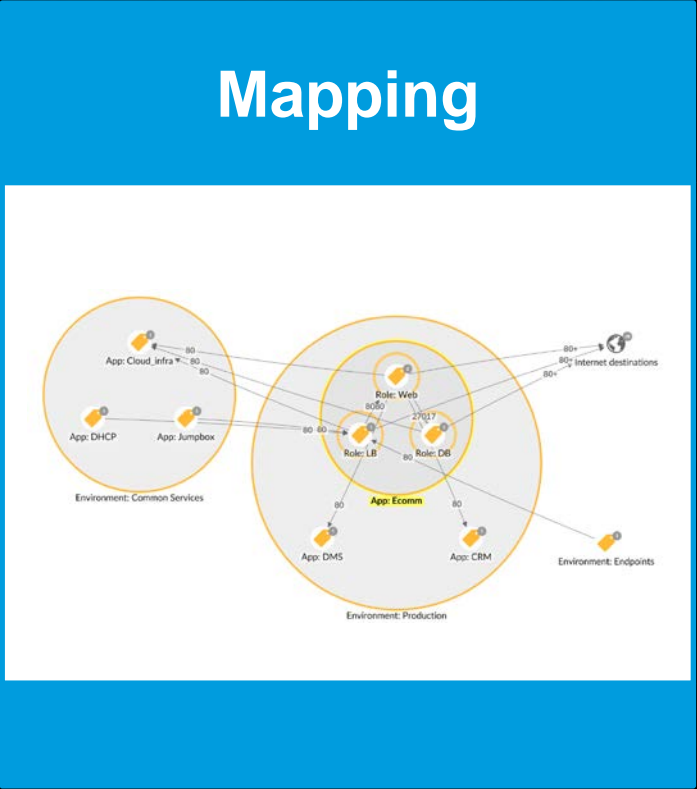
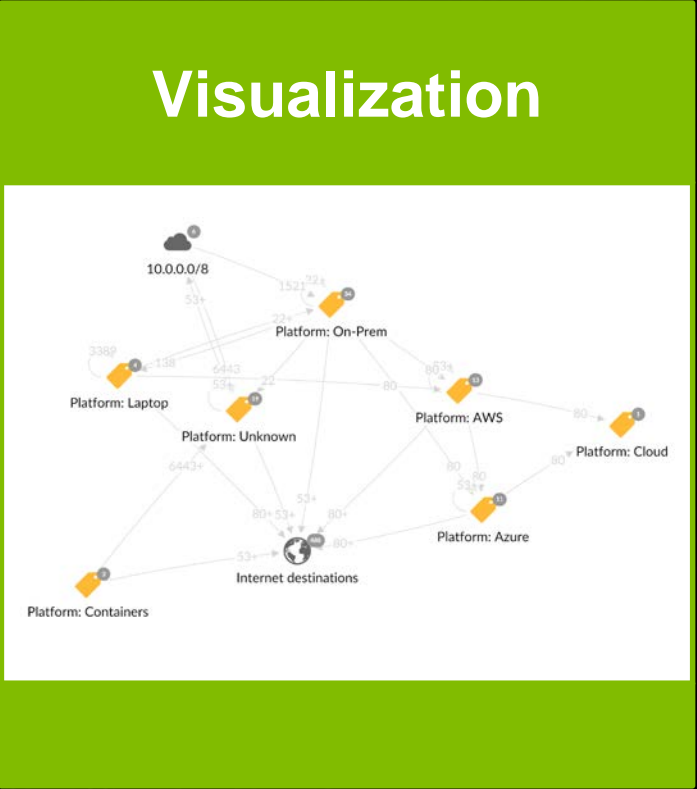
Source	Request	Response	Arrival Time ▾
172.27.7.202	fp.msedge.net	204.79.197.222	2022-08-03 21:04:34
172.27.7.202	fp-vp.azureedge.net	152.199.19.161	2022-08-03 21:04:34
172.27.7.202	t-ring.msedge.net	13.107.246.254	2022-08-03 21:04:34
172.27.7.202	www.bing.com	204.79.197.200	2022-08-03 21:04:26
172.27.7.202	ws19dc.example.local	172.27.7.200	2022-08-03 21:04:17
172.27.7.202	array507.prod.do.dsp.mp.microsoft.com	52.184.217.20	2022-08-03 21:03:17
172.27.7.202	www.bing.com	204.79.197.200	2022-08-03 21:02:57
172.27.7.202	checkappexec.microsoft.com	20.67.219.150	2022-08-03 21:02:37
172.27.7.202	ws19dc.example.local	172.27.7.200	2022-08-03 21:02:25
172.27.7.202	download.sysinternals.com	152.199.19.160	2022-08-03 21:02:25
172.27.7.202	ctldl.windowsupdate.com	13.107.4.50	2022-08-03 21:02:13
172.27.7.202	raw.githubusercontent.com	185.199.108.133	2022-08-03 21:01:44
172.27.7.202	github.com	140.82.121.3	2022-08-03 21:01:43
172.27.7.202	ws19dc.example.local	172.27.7.200	2022-08-03 21:01:40



Map: Unfiltered map | Filter | Group By: App | 2022-08-03 20:09 - 21:09 | Highlight by name | Save

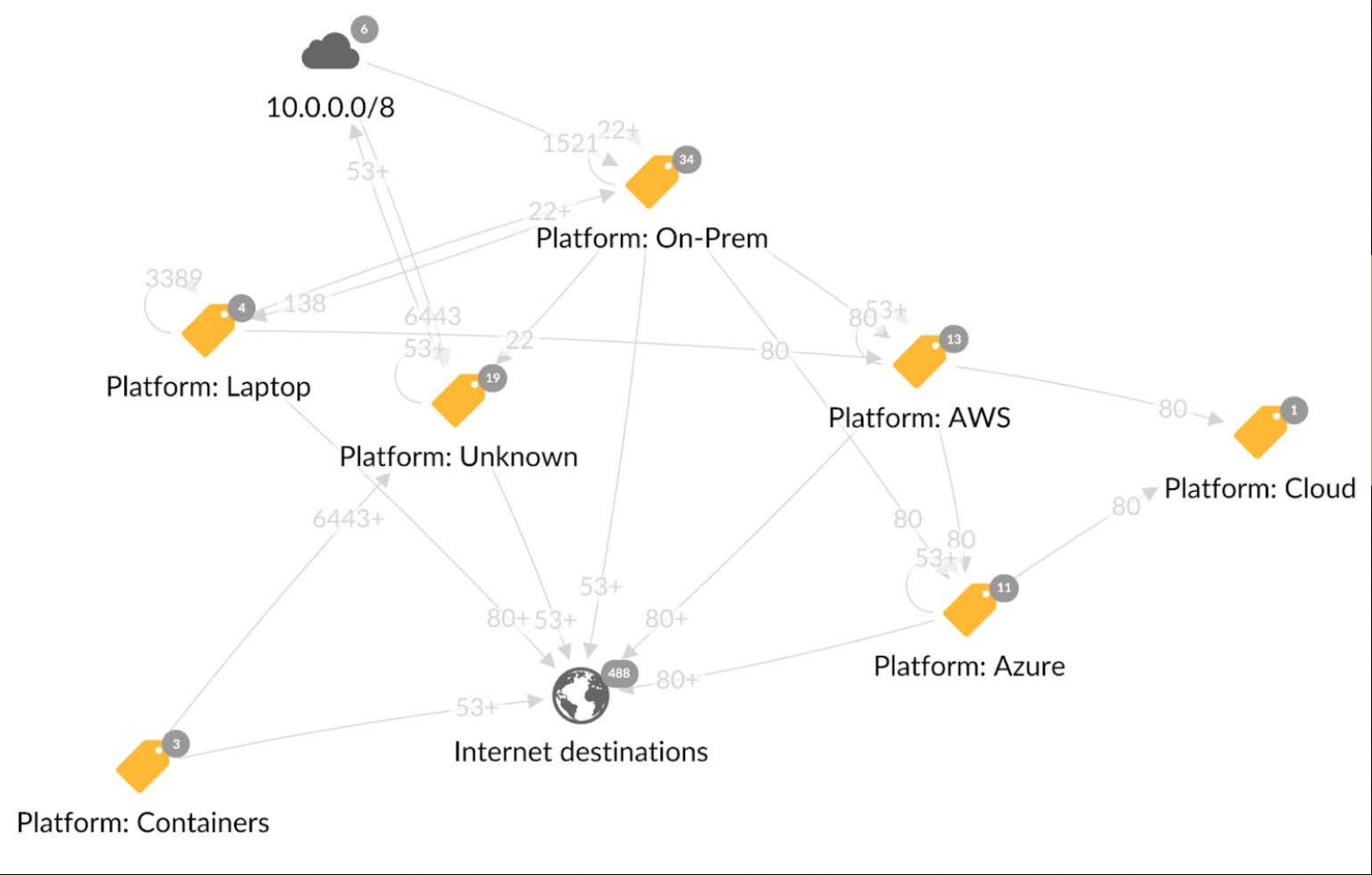


Our Approach to Microsegmentation



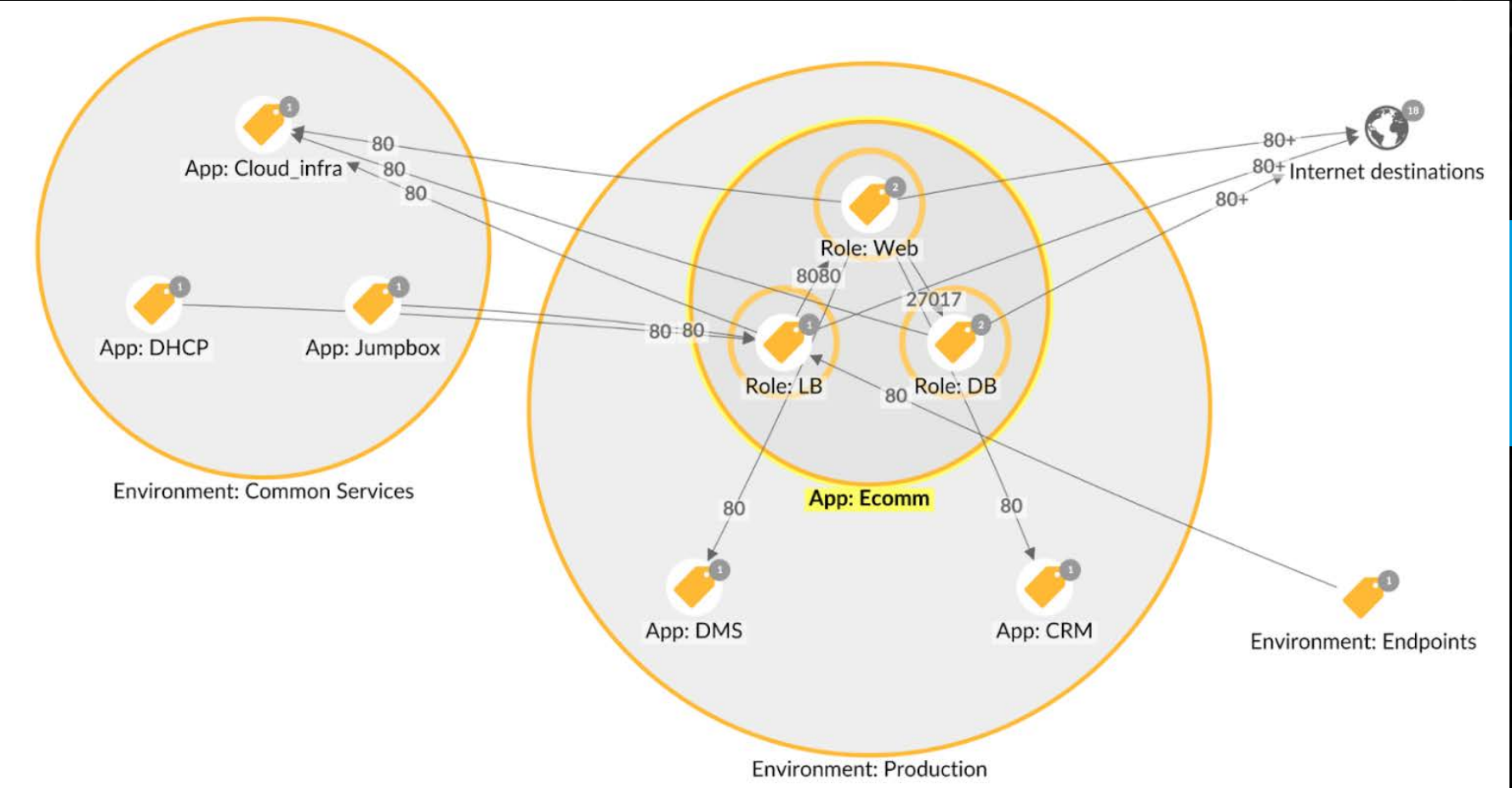
Our Approach to Microsegmentation

Visualization












Our Approach to Microsegmentation

Mapping

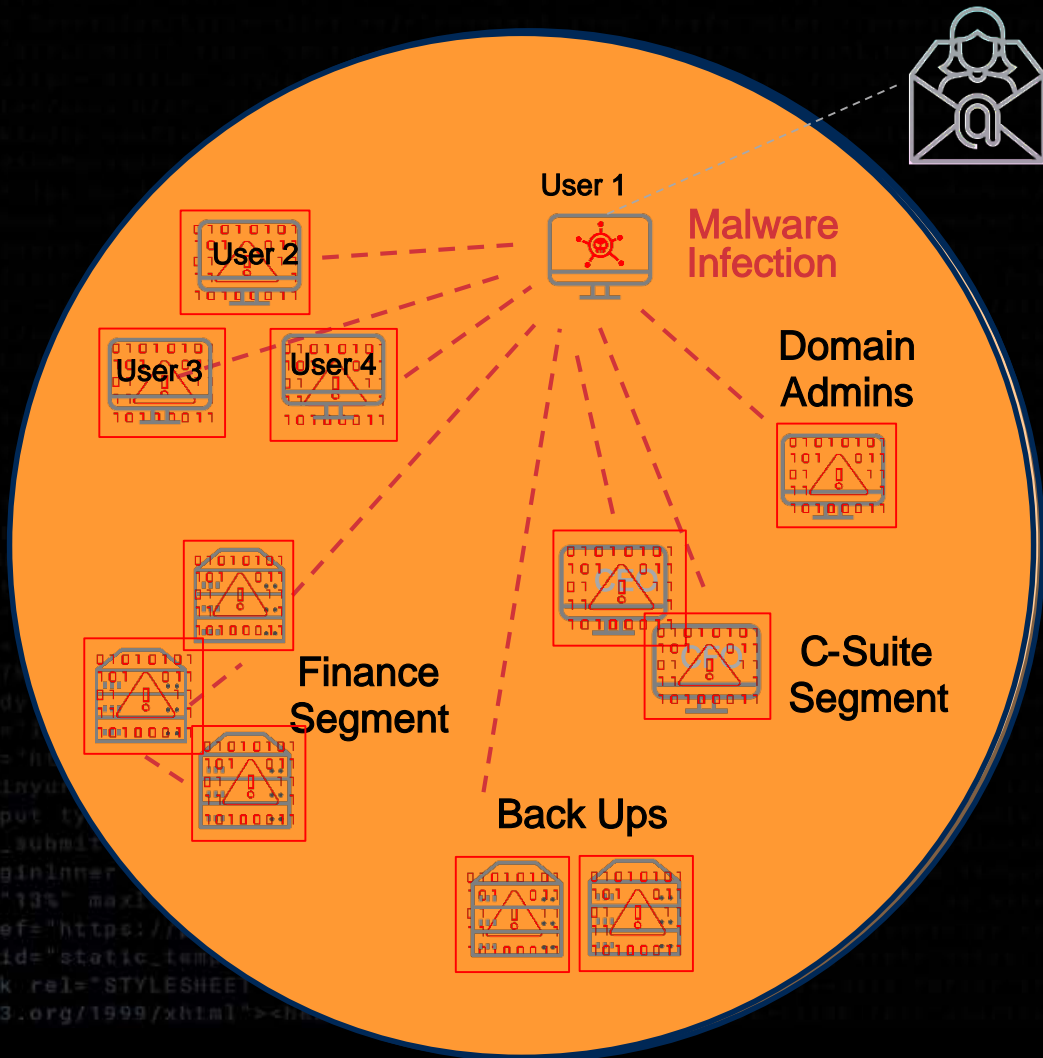


Our Approach to Microsegmentation

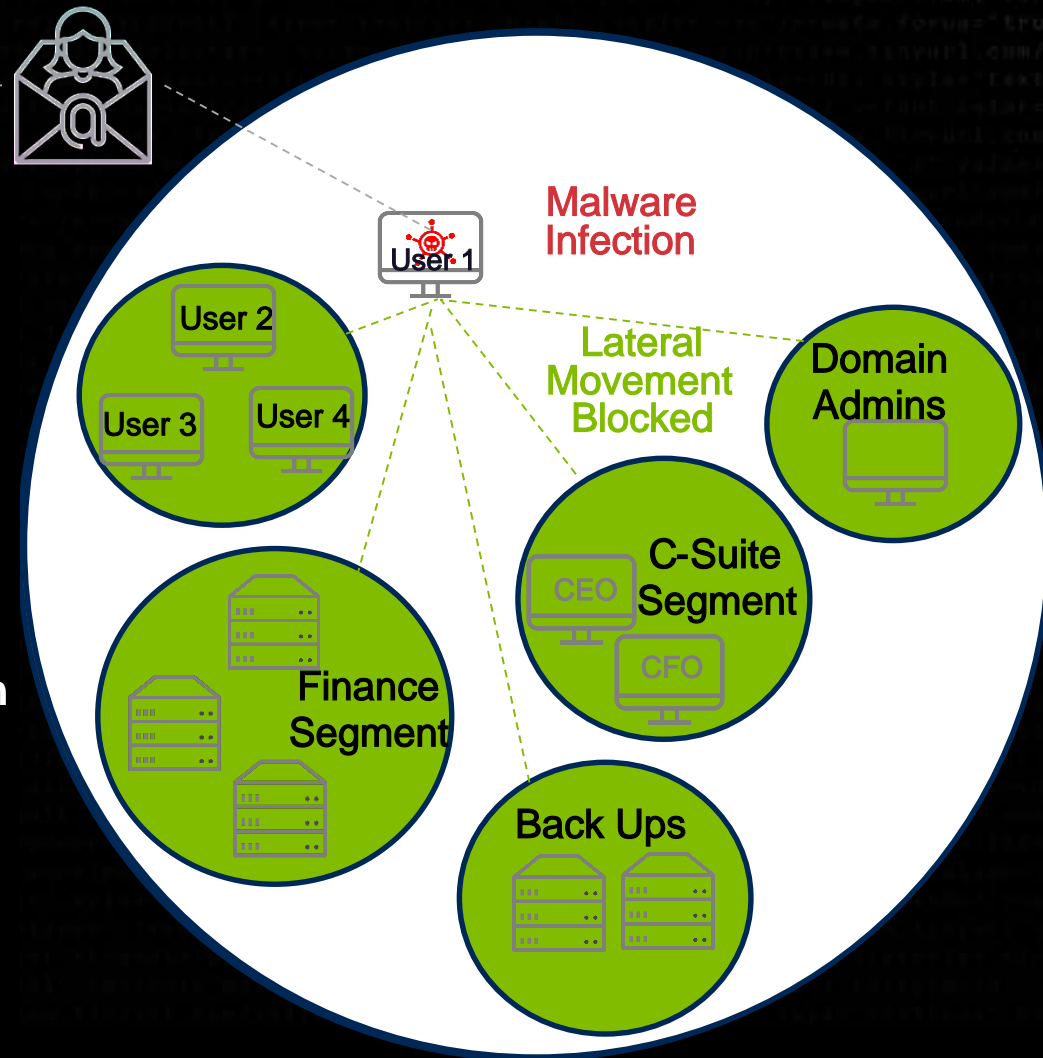
Policy

 Create DNS Segmentation Policies #template	 Create NTP Segmentation Policies #template	 Create DHCP Segmentation Policies #template	 Create Active Directory Segmentation Policies #template
Ra Create Ransomware Response - File Share Restrictions #ransomware #template	Ra Create Ransomware Recovery and Response Policies #ransomware #template	Ma Create Malware Response - Lateral Movement Mitigation Policies #malware #template	 Apply Zero Trust Application Security on application #diy #zero trust
 Application Tier-Segmentation by allowlisting flows bet... #diy	 Ring Fence an Application by allowlisting inbound a... #diy	 Allowlist Outbound Flows for an application #diy	 Control Privileged Access to environment from jumpboxes #diy

Ransomware without Segmentation



Ransomware with Segmentation



1. User clicks phishing email

2. Attackers begin intelligence gathering

3. Attackers drop ransomware

Recommendations

1

Analyze The Threat
(Hacker's Manual)

2

Know Your Defenses
(Defender's Manual)

2

Fill in the Gaps
(ATT&CK Navigator)



Thank You

Zeit für eine Testfahrt?