

Docker Hack

Was für Container Attacken gibt es und wie kann Sie NeuVector entsprechend schüzten?

Chief Solutions Architect, Docker Captain

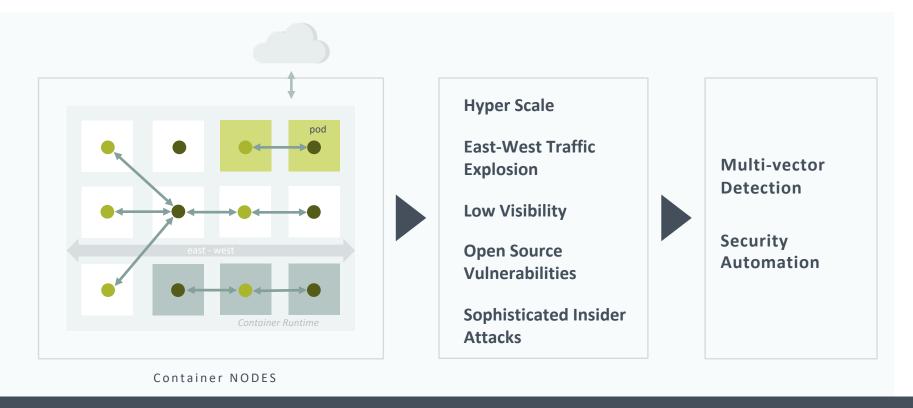
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Microservice Architecture: New Challenges and Risks





A Crypto-Mining Victim: Tesla

Step 1: Port scan -> access K8s console

Step 2: Discover Kubernetes secrets to access to Tesla AWS/S3

Step 3: Deploy: crypto mining tool within a pod

Step 4: Connect using non-standard port and real IP behind CloudFlare CDN. Enable encryption and proxy

Step 5: Hide: Configure Pod to use low resources to evade detection





Traditional
Security - Blind!

NEWS

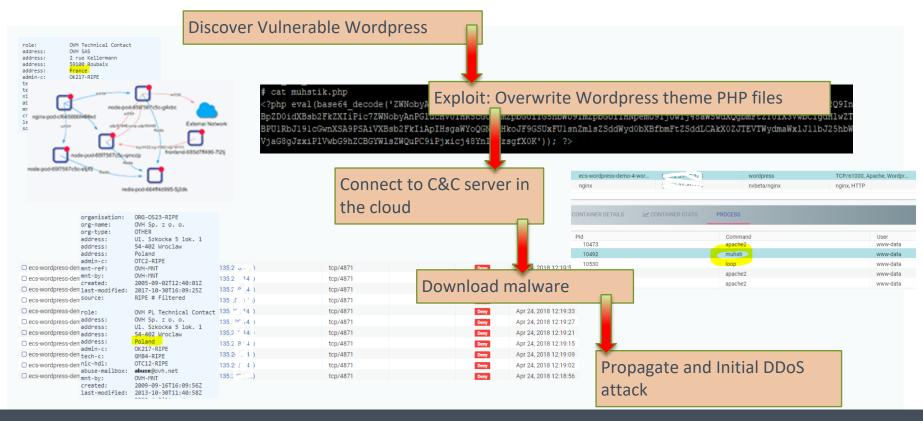
Hackers exploit Jenkins servers, make \$3 million by mining Monero

Hackers exploiting Jenkins servers made \$3 million in one of the biggest malicious cryptocurrency mining operations ever.

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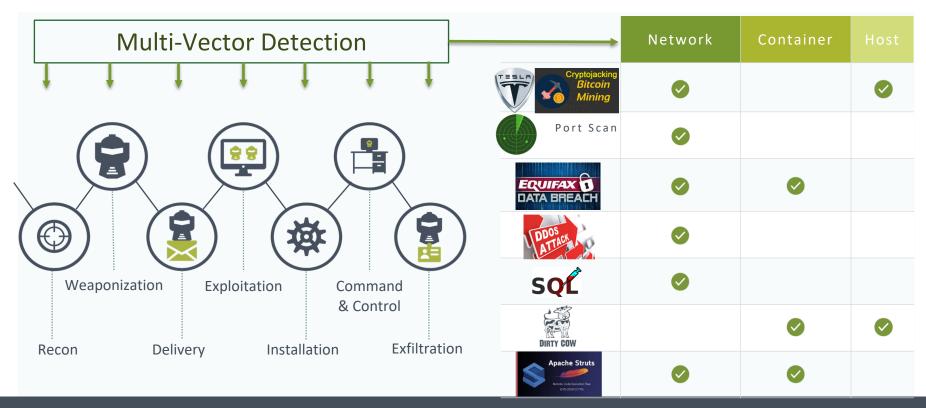


Muhstik Botnet: In AWS Honeypot



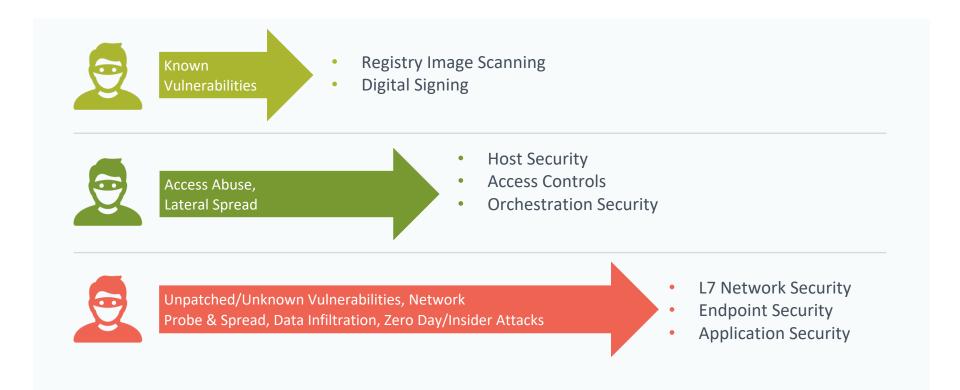


Detecting the Kill Chain Events – At Run-Time





Scanning and Hardening Is Not Enough





What Is A Container Security Mesh?

- Deployed close to application workloads
 - Scale with workloads, automatically
 - Inline threat detection and enforcement
- Separation of Control and Data Plane
 - Control plane for service discovery, policy resolution, HA, notification
 - Data plane high performance, real-time inspection
- Application security context
 - Network and application behaviors
- Security mesh benefits End-to-end Security Coverage



NeuVector Multi-Vector Container Security Platform

- Network & Container Visualization
- Automated Network Policy Generation
- Network, Process and File System Behavior Profiling
- Deep Packet Inspection and Threat Detection
- Automated Response Policy
- Container and Host Audit and Compliance Check
- Vulnerability Scan
- Forensic: Packet Capture & Quarantine





Further Links and Details

- How to Hack a Kubernetes Container (webinar recording): https://neuvector.com/container-security/hack-kubernetes-container/
- NeuVector 2.0 Security Automation: https://neuvector.com/container-security/neuvector-2-0-now-available/
- Try NeuVector: https://neuvector.com/try-neuvector/



