NetFlow LOGIC

Taming Big Flow Data

Intelligent Approach to Integrating Flow data with Mainstream Event Management Systems

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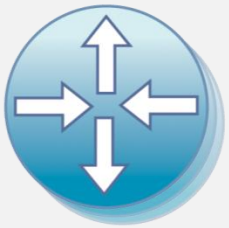
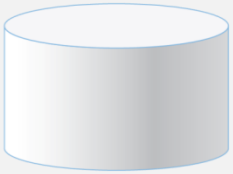
Problem



400K recs / sec

1.6TB per day! =



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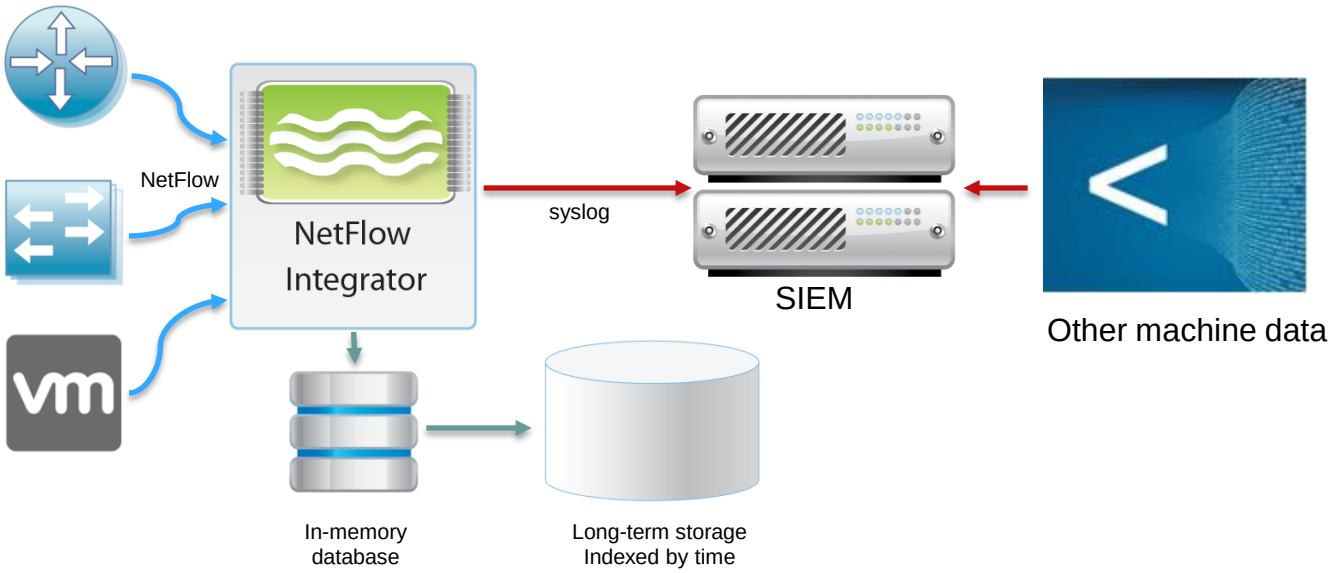
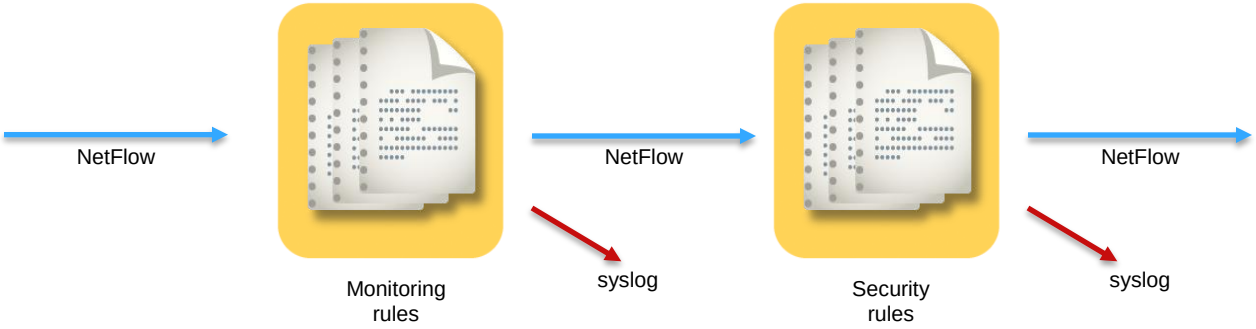
- Modern network devices can create 400K flows / sec. (1.6TB/day of NetFlow data from a single device)
- NetFlow collectors are incapable of processing that much data at reasonable cost
- This problem requires a drastically new approach
- NetFlow collectors / analyzers often are isolated from other log management

Proposed Solution



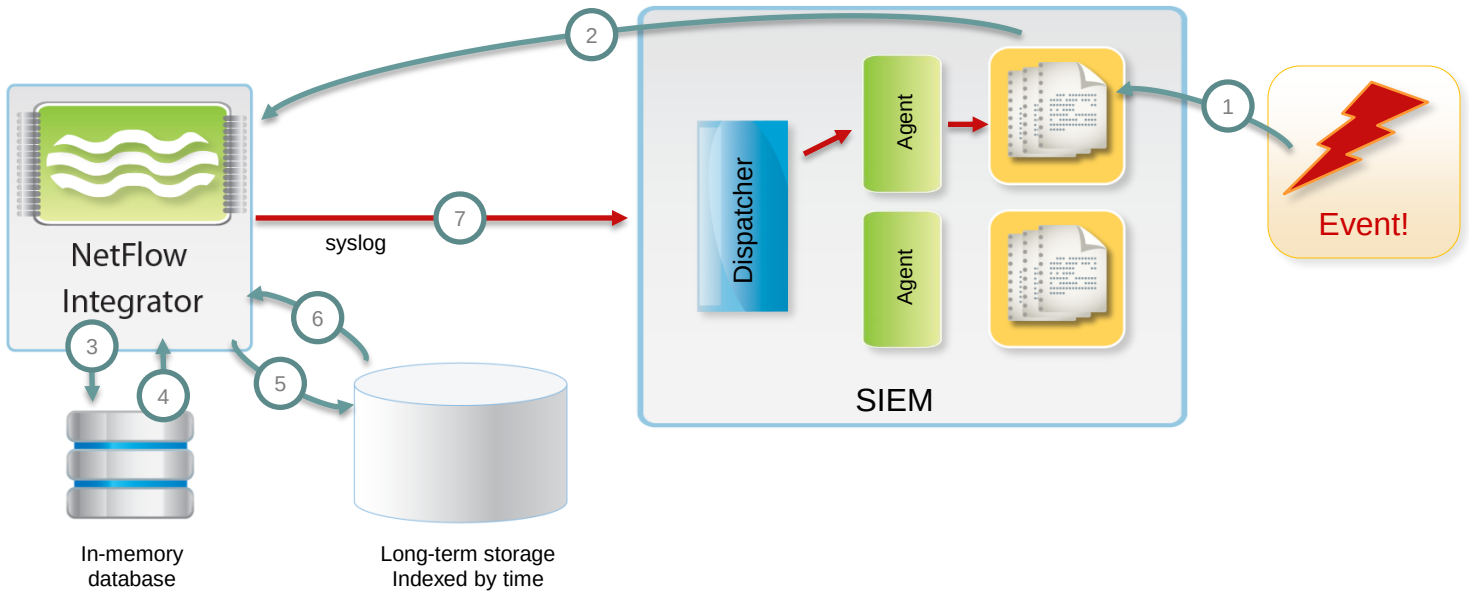
- Consolidated flow information is sent to SIEM in syslog format
- SIEM may request to provide detailed NetFlow data in Δ t around interesting events

Flow Consolidated Information



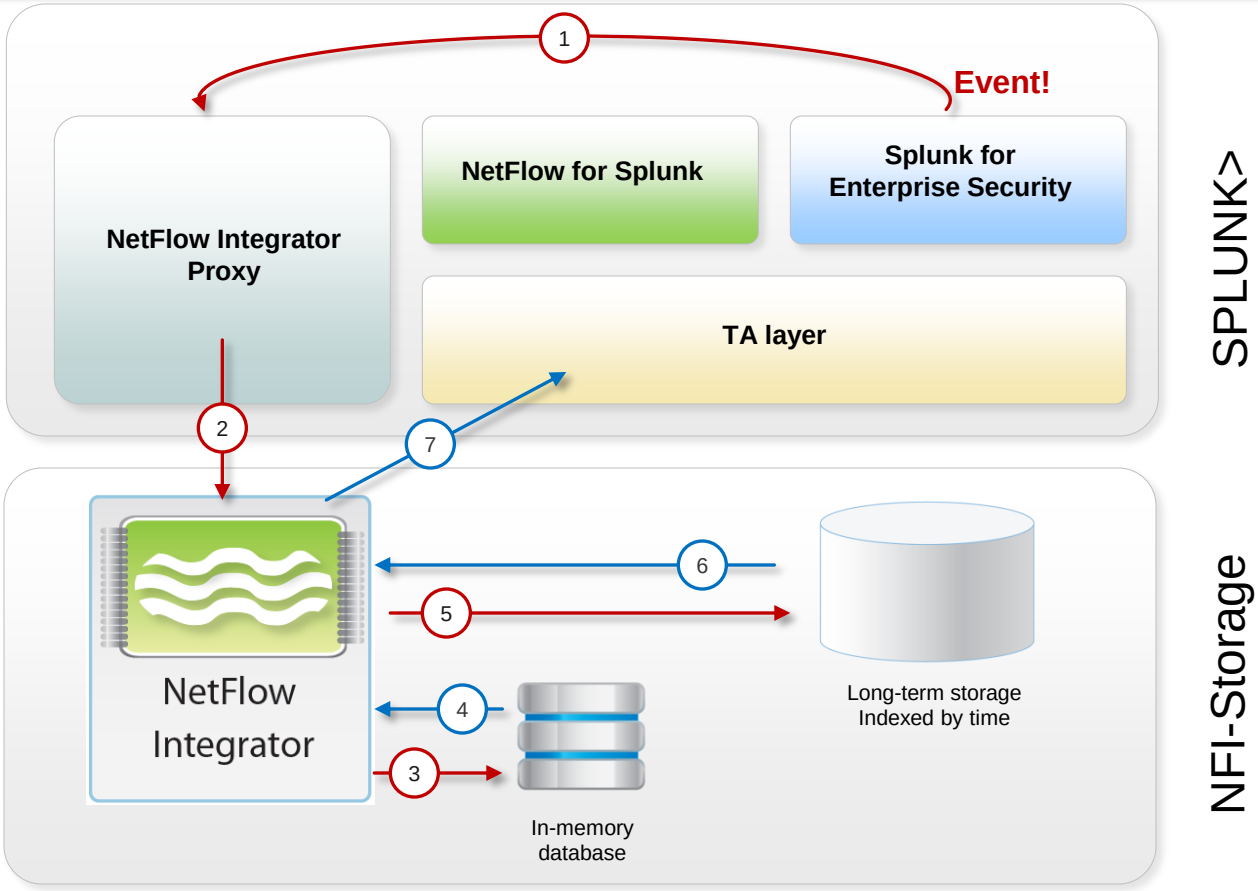
- Traffic Summary
- The number of network policy violations, such as ACL, exceeds a certain threshold
- A host on internal network generates unusual traffic volume
- A host on internal network generates unusual number of connections
- Events based on host reputation
- And so on… just add rules to NetFlow Integrator

Qualifying Events Reported to SIEM



- Event: configuration change
- Was the user who made the change associated with the network flow of the source IP address assigned to that user?
- Request is sent to NetFlow Integrator: provide network traffic detailed for Δ t around the event
- If the user who made the change was not associated with the network traffic – we discovered an imposter!

Example: NFI-Storage + Splunk



- Splunk App for Enterprise Security detects security event and requests the underlying flow information through NetFlow Integrator Proxy
- NetFlow Integrator retrieves flow records for Δ t around the event and sends them in syslog format via Splunk Technology Add-on