

Recent Changes



Some of the big changes this year

- Moloch 1.0
- Capture stability
- Full IPv6 support
- ES 6 support
- Parliament Alerting
- Packet Search



Moloch 1.0

- Previously field names were terrible, new names are so beautiful
- Unfortunately required a painful reindexing
- Removed all analyzed fields
 - We've gotten feedback this is bad, planning to add back for Moloch 2.0
- ES 5 & ES 6 Support
- Switch to the new Maxmind API and 2 character country codes



Capture

- Many new classifiers: dhcp, dhcpv6, splunk, isakmp, ntp, ...
- OUI lookups
- Can reload oui, geo, rules without restarting
- Can decode many new VPNs
- Suricata plugin
- Autogenerated ES Ids



Capture Stability

- Require gnu99 compiler now
- 1.5/1.6 have numerous stability fixes
- Sanitize
 - New option for clang/gcc
 - Memory, integer overflow, and other checks
 - Runs on every commit now
 - Working on running in lab and production setting
- Cppcheck
 - Static analysis
 - Working to integrate into build system



Suricata Plugin

- Reads eve.json or alerts.json from disk
- Able to enrich moloch sessions since Suricata writes right away, and moloch is delayed
- Not a Suricata UI
- Only works when Moloch can read the files as they are written



Suricata Screenshot

Suricata

Signature ▾	ET POLICY HTTP traffic on port 443 (CONNECT)
Category ▾	Potentially Bad Traffic
Flow Id ▾	1708257947171143
Action ▾	allowed
Gid ▾	1
Severity ▾	0
Signature id ▾	2,013,933



Wise

- Handle multiple WISE servers better
- Support any field
- Splunk data source
- Easier to create views/sources
- Support more than 255 fields



Viewer

- Angular to Vue.js (performance improvements)
- Stats pages for Indices, Tasks, and Shards!
- Packet Search
- Shared Views
- Keyboard shortcuts



DEMO



Upcoming Changes



Building/Releases

- Last year had 4 build systems!
- Currently 3 build systems:
 - Vagrant - Releases
 - Vagrant - Nightly (Will be removed Dec 1st)
 - Screwdriver - builds on commits and pull requests
- Move to screwdriver for all builds
- Use bintray for ppa/repos



Moloch 2.0 - Ideas

- ES 6.x required
- Add field analyzers back
- New visualizations
 - Connections tab rewrite
 - Flow view
- Viewer/Multiviewer merge - Selectable clusters to search
- New Parsers: SIP, IMAP, ...
- Users “rethink” and Parliament
- History of Observed Data Indicators
- Tshark json view



Open source hygiene

- Adding a Contributor License Agreement (CLA) to github commits
- Adding a Code of Conduct to the github project
- Encourage code contributors from outside of Oath
- Goal of adding an external main committer
- Encourage github issues, feature requests, pull requests, wiki additions/revisions



PARLIAMENT



QUESTIONS?

