MISP DEPLOYMENT

SOME BASIC GUIDELINES

CIRCL / TEAM MISP PROJECT



FIRST.org/Africa CERT

- Deployment types
- Distro choice
- Hardware specs
- Authentication
- Other considerations settings, gotchas

DEPLOYMENT TYPES

Native install

- Manual
- One liner script INSTALL.sh https://github.com/MISP/MISP/tree/2.4/INSTALL
- MISP VM

https://www.circl.lu/misp-images/latest/

- Docker
- RPM maintained by SWITCH https://github.com/amuehlem/MISP-RPM
- Cloud provider images https://github.com/MISP/misp-cloud

- CoolAcid's MISP images https://github.com/coolacid/docker-misp
- MISP-docker by XME https://github.com/MISP/misp-docker
- docker-misp by Harvard security
 https://github.com/MISP/docker-misp

DISTRO OPTIONS

Ubuntu 20.04 (18.04 will also work)

- Our target platform
- Our Cl target
- Use this unless you are absolutely forced not to
- This is the platform we can support you with!
- CentOS 7
 - Annoying to operate
 - Less tested, though used by many
 - CentOS is going away. Consider other options
- RHEL 7
 - Same annoyance as CentOS in general
 - We test against CentOS in general, some assembly may be required

- No firm recommendations, it's highly usage dependent
- It's better to go a bit over what you need than under
- **SSDs** are massively beneficial
- Let's look at what affects specs and some sample configurations

What are the factors that can impact my performance?

- Clustering of the data (how many datapoints / event?) (RAM, disk speed)
- Correlation (RAM, disk speed, disk space)
 - Consider blocking overtly correlating values from doing so
 - Feed ingestion strategy is crucial
- Over-contextualisation (RAM, disk speed)
 - Tag/attach galaxies to the event instead of each attribute when possible

■ What are the factors that can impact my performance?

- Number of users that are active at any given time (RAM, CPU, disk speed)
- Logging strategy (Disk space)
- API users especially with heavy searches (substring searches for example) (RAM, CPU, Disk speed)

What are the factors that generally do NOT impact my performance as much as expected?

- Warninglist usage
- Number of raw attributes on the instance
- Number of sync connections / recurring syncs (with measure)
- Tools feeding off the automation channels (ZMQ, kafka, syslog)

- Username/password is the default
- Some built in modules by 3rd parties (LDAP, Shibboleth, x509, OpenID, Azure Active Directory)
- CustomAuth system for more flexibility
- Additionally, consider Email OTP

PHP tuning

- Maximum memory usage (per process)
- Timeout settings
- Consider setting it per role!
- Background processes are exempt
- MySQL: key buffer size is important

Generally, tune for few heavy requests rather than many light ones

Clustering

- Load balanced apache servers with MISP
- Replicating / mirrored database backends
- Careful about session pinning
- Attachment storage can be abstracted / network attached
- An example implementation for AWS https://github.com/oxtf/HAMISPA