CEREBRATE

AN INTRODUCTION

ANDRAS IKLODY

INTERNAL



A QUICK INTRODUCTION TO CEREBRATE

- What is Cerebrate?
- Why have we been working on this?
- What sort of benefits does this bring for MISP communities?
- What is there and where are we headed?
- Demonstration

WHAT IS CEREBRATE?

- Open source community management and orchestration tool
- Central tool for the Melicertes 2 project
- Tight integration with various open-source tools
- Planned as the primary MISP management tool

WHAT ISSUES IS IT TRYING TO TACKLE?

- Community management
 - ► **Repository** of organisations and individuals
 - ► Management of **sharing groups**
 - Exchange of contact and sharing group information
 - ► Constituency lookups and searching
 - Cryptographic key lookup for information signing
- Local tool management
 - ► Instrumentation of local tool interconnections
 - ► Local tool **fleet management**
 - ► **Feeding** the local tools with Cerebrate data

SO WHERE ARE WE TODAY?

- Currently in **pilot** phase
- We're close to releasing v1.5
- Still plenty of things for us to do, we view Cerebrate as a long term project
- If you want to get started https://github.com/cerebrate/cerebrate
- Expect many more updates, features in the future
- We encourage everyone to **get involved**, try it out, let us know what doesn't work for you

WHAT IS AVAILABLE CURRENTLY?

- A set of Common functionalities
- **■** Contact Database
- **■** Sharing group management
- Cerebrate to Cerebrate synchronisation
- Mailing list management
- Local tool orchestration integration modules
- Inbox system
- Local tool **fleet management**

COMMON FUNCTIONALITIES

- Team based user management with customisable RBAC rules
- Optional support for external user and identity management via keycloak
- Powerful API
- Management tools for administrators

CONTACT DATABASE

- Index of **Organisations and Individuals**
- Flexible meta-data model (community specific, constituency, etc)
- Content aware search functionalities

7 | 10

SHARING GROUPS

- Similar to MISP's implementation
- Create and manage sharing groups from Cerebrate
- MISPs can **ingest the sharing groups** for information sharing

8 | 1

SYNCHRONISATION

- Connect Cerebrates to one another
- **Diagnose** connectivity issues
- Remotely **browse the data** of the remote instance
- Fetch organisation, individual, sharing group data

INTEGRATION MODULES

- Tool agnostic integration layer
- Integrate other tools with Cerebrate for a set of tasks
 - ► Manage tools
 - ► **Feed** the tool with / feed off the tool's contact information
 - ▶ Orchestrate the interconnection between local tools
 - Open a dialogue with partners to interconnect tools