Visualise all the things

VISUALISE ALL THE THINGS

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BUILDING DASHBOARD WIDGETS FOR MISP

CIRCL / TEAM MISP PROJECT

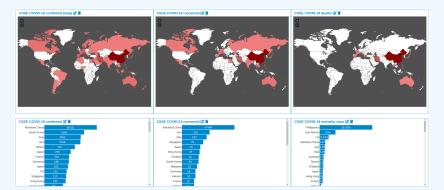
HTTP://WWW.MISP-PROJECT.ORG/ TWITTER: @MISPPROJECT

MISP PROJECT



DASHBOARD IN MISP

- User configurable simple dashboard interface
- Visualise, aggregate and track data important to you
- Brand new feature, still undergoing reworks



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└─ Dashboard in MISP



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THE INTERNALS OF AWIDGET

- **Backend** for the widget, full access to all MISP internals
- Load, convert, format to be represented via view widgets
- Widget metadata size, name, description, behaviours
- Only main function required to be implemented: handler()
- Optional: checkPermissions() for ACL
- Accepts **user configuration** for which a template can be provided
- Located in /var/www/MISP/app/Lib/Dashboard/
- Custom widgets can be placed in /var/www/MISP/app/Lib/Dashboard/Custom/

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☐ The internals of awidget

· Backend for the widget, full access to all MISP internals m Load, convert, format to be represented via view widgets

■ Located in /var/www/MISP/app/Lib/Dashboard/

Custom widgets can be placed in

THE VIEW LAYER OF A WIDGET

- View files are included by default and reusable
- Currently we have a small but growing list of views
 - ► BarChart
 - ► SimpleList
 - ► WorldMap
- Converts the data passed by the Widget logic to HTML
- Located in /var/www/MISP/view/Elements/dashboard/Widgets/

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2024-04-15

└─The view layer of a widget

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arChart

► WorldMap

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9

WIDGET BEHAVIOURS

- Widgets can additionally be tied to certain **behaviours**:
 - Caching
 - Executions of the widget logic are cached
 - Separate caches for each organisation in addition to site admins
 - Cache duration is controlled by the widget logic
 - ► Refresh
 - Widgets can be set to refresh after x seconds
 - ► Both of these should be used with special care in regards to the use of **system resources**

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—Widget behaviours

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EXERCISE MODULE: SIMPLE WHOAMI

- Let's start with a skeleton
- Create /var/www/MISP/app/Lib/Dashboard/Custom/WhoamiWidget.php
- MISP will parse anything ending with Widget.php in this directory

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└─Exerci

-Exercise module: simple Whoami

EXERCISE MODULE: SIMPLE WHOAMI

■ Let's start with a skeleton ■ Create /var/www/MISP/app/Lib/Dashboard/Cus-

MISP will parse anything ending with Widget.php in t directory

EXERCISE MODULE: SIMPLE WHOAMI

1 <?php

```
2 class MispWhoamiWidget
    public $title = 'Whoami';
    public $render = 'SimpleList';
    public $width = 2;
    public $height = 2;
    public $params = array();
    public $description = 'Shows information about the
        currently logged in user.';
    public $cacheLifetime = false;
    public $autoRefreshDelay = 3;
    public function handler($user, $options = array())
      $data = array();
      return $data;
```

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Exercise module: simple Whoami

XERCISE MODULE: SIMPLE WHOAMI

```
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```

META INFORMATION

- **\$title**: The name of the widget
- **\$description**: A description of the widget
- **\$render**: The view element to use in rendering the widget
- \$width & \$height: Default relative dimensions
- **\$params**: Configuration array with explanations for each key
- \$cacheLifetime: The lifetime of the caches in seconds (false disables it)
- \$autoRefreshDelay: The time in seconds between each refresh (false disables it)

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-Meta information

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\$title: The name of the widget

- Srender: The view element to use in rendering the widget
- # \$params: Configuration array with explanations for each ke
 # \$cacheLifetime: The lifetime of the caches in seconds (false)
- disables it)

 # SautoRefreshDelay: The time in seconds between ex-
- \$autoRefreshDelay: The time in seconds between each refresh (false disables it)

THE HANDLER

```
public function handler($user, $options = array())
     $this->Log = ClassRegistry::init('Log');
     $entries = $this->Log->find('all', array(
       'recursive' => -1,
       'conditions' => array(
         'action' => 'login', 'user_id' => $user['id']
       'order' => 'id desc',
       'limit' => 5,
       'fields' => array('created', 'ip')
12
     foreach ($entries as &$entry) {
       $entry = $entry['Log']['created'] . ' --- ' .
14
15
         empty($entry['Log']['ip']) ?
16
         'IP not logged' :
          $entry['Log']['ip']
18
19
20
     return arrav(
       array('title' => 'Email', 'value' => $user['email']),
22
23
       array(
         'title' => 'Role', 'value' => $user['Role']['name']
25
26
       arrav(
         'title' => 'Organisation',
28
         'value' => $user['Organisation']['name']
29
       array(
         'title' => 'IP', 'value' => $_SERVER['REMOTE_ADDR']
32
       array('title' => 'Last logins', 'value' => $entries)
34
35 }
```

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└─The handler

DLER

function bandled (base, Spatient = arrough))

voing = Clevelegister, visit('log');

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RESULT

Email: admin@admin.test Role: admin Organisation: ORGNAME IP: ::1 Last logins: 2020-03-05 06:50:46 --- ::1 2020-03-04 21:35:15 --- IP not logged

2020-03-04 09:34:44 --- IP not logged 2020-03-03 16:58:35 --- IP not logged 2020-03-03 06:49:10 --- IP not logged

Whoami 📝 📋

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Result

