

AN EASY WAY TO REUSE CENTRALIZED CODE



OCTOBER 8 • 10, 2025
RIGA • LATVIA



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Born in Uruguay and father of four beautiful children.

Over 30 years of experience in the IT industry, specializing in programming and database administration.

In 2015, co-founded Custos Monitoring together with Joaquín Giucci. Today, the company boasts a solid and continuously growing team, with a strong commitment to Zabbix.

Spanish-speaking Zabbix Certified Expert Trainer in Latin America.



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Community



Telegram
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Item PreProc.
JS



Script Item
JS



Script Action
JS



Media Type
JS



SAME CODE, MANY PLACES

Item PreProc.
JS



Common Code



Script Item
JS



Script Action
JS



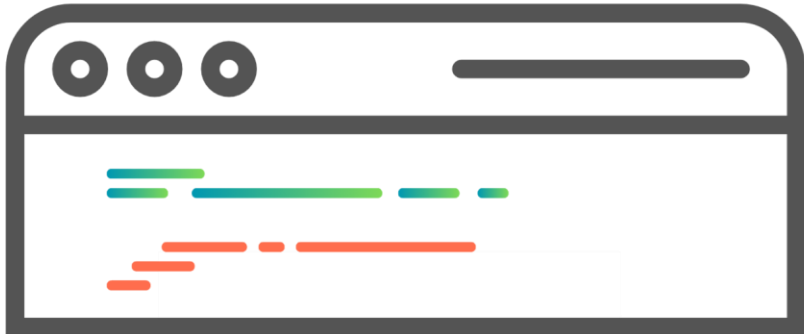
Media Type
JS



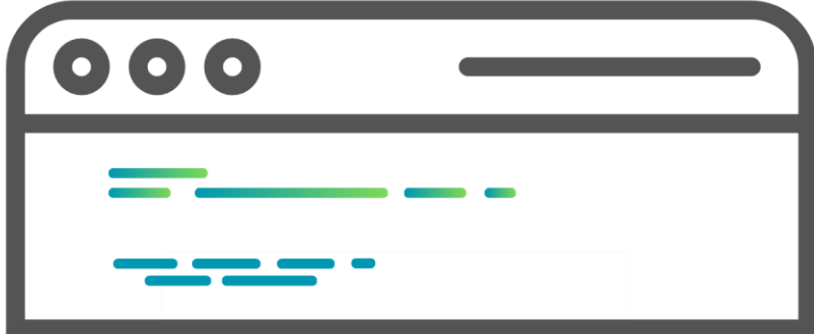
PROBLEM

SAME CODE, MANY PLACES

Item PreProc.
JS



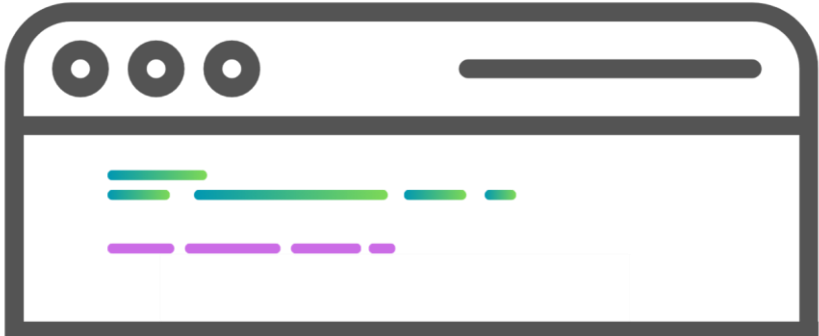
Script Item
JS



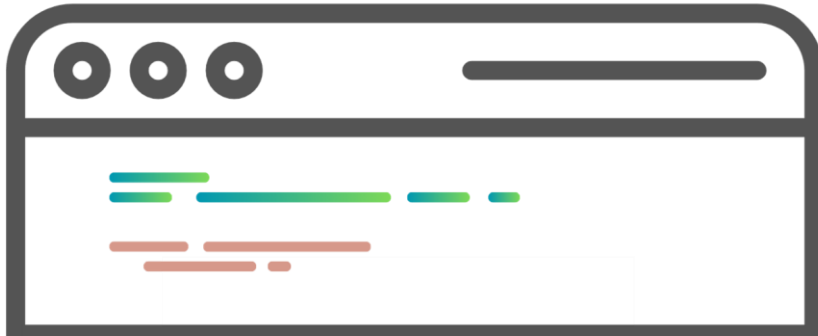
Common Code



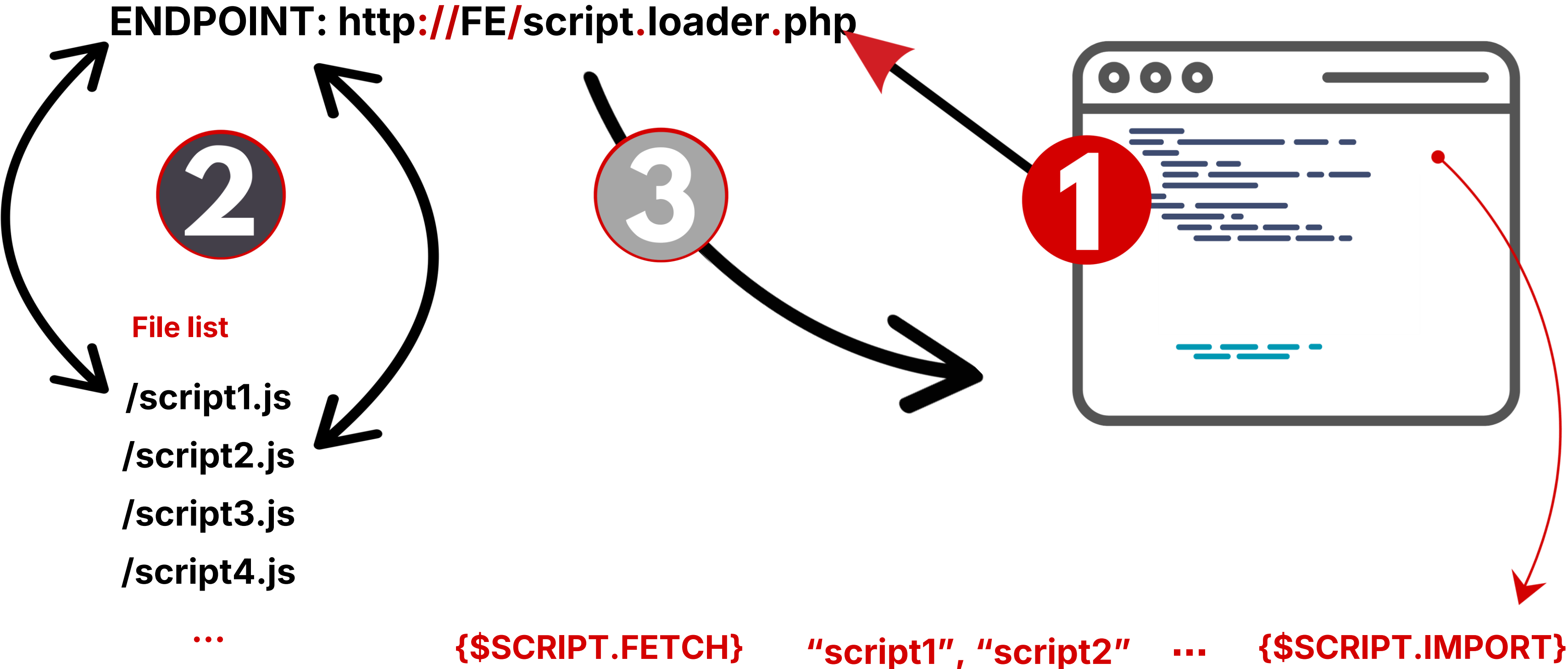
Script Action
JS



Media Type
JS



SOLUTION



{\$SCRIPT.FETCH}

```
eval(function() {  
    var request = new HttpRequest();  
    request.addHeader("Authorization: secret");  
    var response =  
    req.post("http://localhost:8080/script_modules/script_loader.php",  
            JSON.stringify({  
                scripts: arguments  
            })  
    );  
    if (200 != req.getStatus()) {  
        throw "[SCRIPT_IMPORT_ERROR] " + JSON.parse(r).error;  
    }  
    return response;  
})
```

{\$SCRIPT.IMPORT}

));

```
<?php
define('SECRET_API_KEY', 'secret');
define('SCRIPTS_DIRECTORY', __DIR__ . '/scripts/');
header('Content-Type: application/json');

if ($_SERVER['REQUEST_METHOD'] !== 'POST') {
    http_response_code(405); // 405 Method Not Allowed
    echo json_encode(['error' => 'Invalid request method. Only POST is accepted.']);
    exit;
}

$headers = getallheaders();
$api_key = $headers['Authorization'] ?? null;

if (!$api_key || $api_key !== SECRET_API_KEY) {
    http_response_code(401); // 401 Unauthorized
    echo json_encode(['error' => 'Unauthorized. API key is missing or invalid.']);
    exit;
}
```

```
$json_input = file_get_contents('php://input');  
  
$data = json_decode($json_input, true);  
  
if (json_last_error() !== JSON_ERROR_NONE || !isset($data['scripts']) || !is_array($data['scripts'])) {  
    http_response_code(400); // 400 Bad Request  
    echo json_encode(['error' => 'Bad Request. Body must be a valid JSON object with a "scripts"  
array.']);  
    exit;  
}  
  
$requested_scripts = $data['scripts'];  
$concatenated_content = '';  
$file_separator = "\n/* --- */\n";  
  
foreach ($requested_scripts as $script_name) {  
    // --- SECURITY: Sanitize the filename ---  
    $sanitized_filename = basename($script_name);
```

```
if (empty($sanitized_filename) || $sanitized_filename !== $script_name) {  
    http_response_code(400); // Bad Request  
    echo json_encode(['error' => "Invalid script name format: '{$script_name}'."]);  
    exit;  
}
```

```
$filename_with_ext = $sanitized_filename . '.js';  
$file_path = SCRIPTS_DIRECTORY . $filename_with_ext;
```

```
if (!file_exists($file_path) || !is_readable($file_path)) {  
    http_response_code(404); // 404 Not Found  
    echo json_encode(['error' => "Script not found: '{$sanitized_filename}'."]);  
    exit;  
}
```

```
$concatenated_content .= file_get_contents($file_path) . $file_separator;  
}  
header('Content-Type: text/javascript');
```

```
echo $concatenated_content;
```

- ✓ **Centralized Scripts,**
better management
- ✓ **Simplified Configuration**
Makes the code more readable
- ✓ **Fewer Characters**
Helps to avoid reaching character limits
- ✓ **Code Reusability**
Enables sharing the code across
different clients installations

- ✗ **Fetch depending on location**
~ 7ms local
~ 100ms Remote
- ✗ **Different macro resolutions criteria**
Use parameters

IMPACT

→ Add/Import natively

- Files under a directory, similar to external scripts
- New data type in the DB

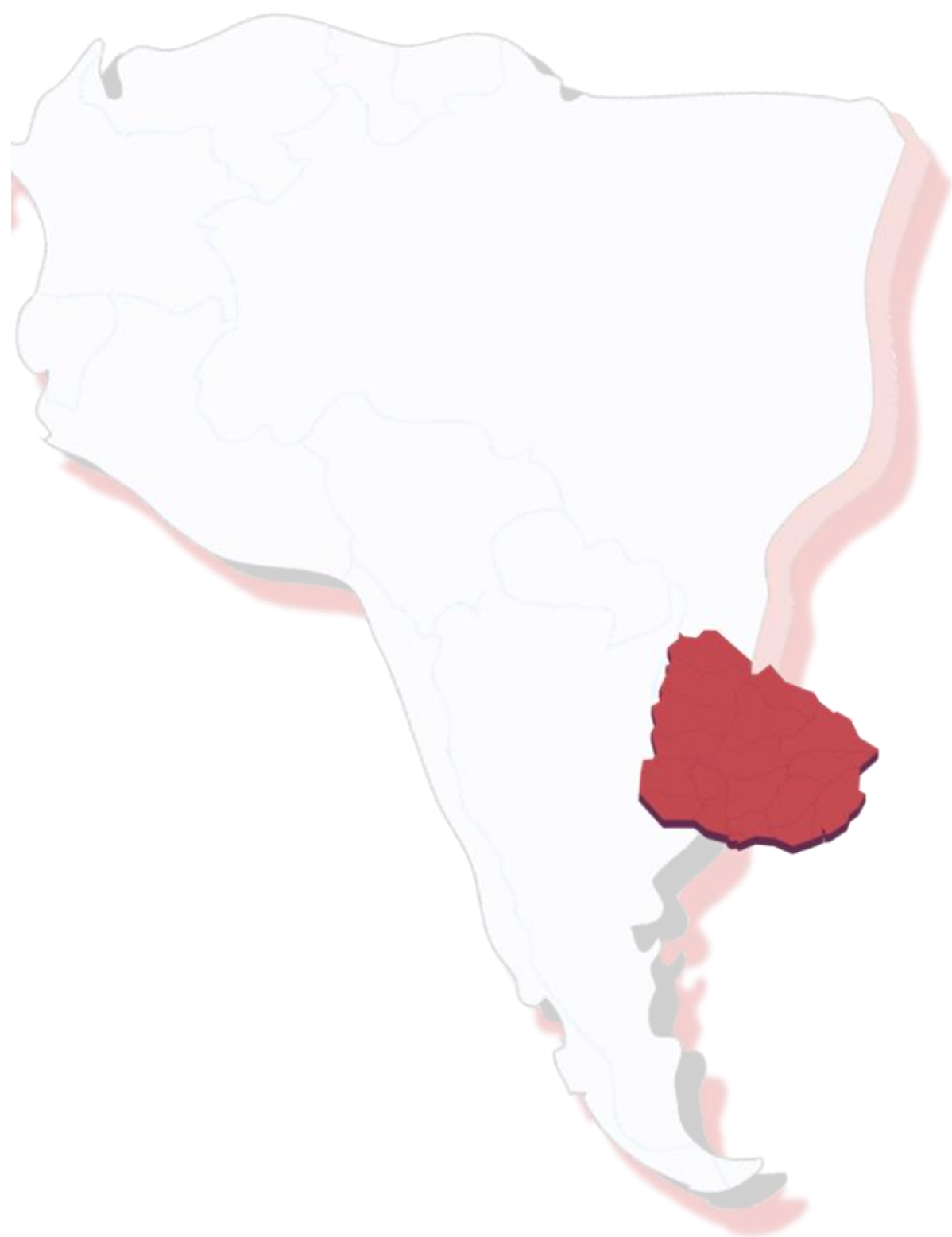


→ Advantages

- Cache utilization
- Faster loads

PROPOSAL

THANKS!



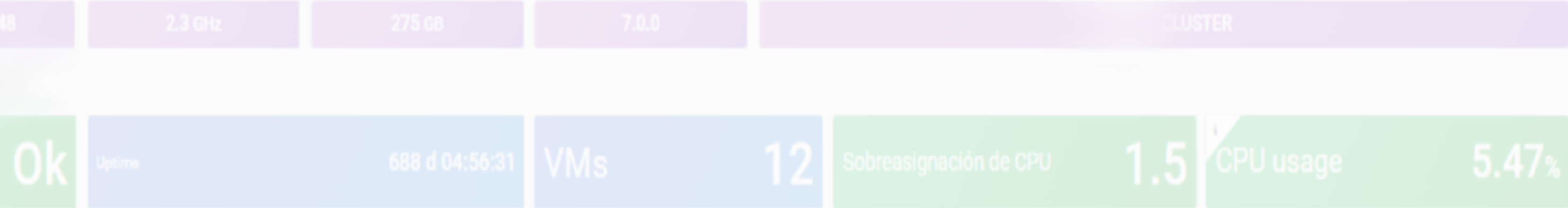
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