Nate Custer & Kevin Laude

Got an idea for a customization?

Kevin will code one suggestion and demonstrate it at the end of this talk.

Overview

- Review Helper Function
- Adding Information to the Home Page Panels
- Adding Information to Product Details (5.3 style)
- Adding Information to Product Details (6.0 style)
- Adding Actions to an existing module.
- Kevin’s Show & Tell

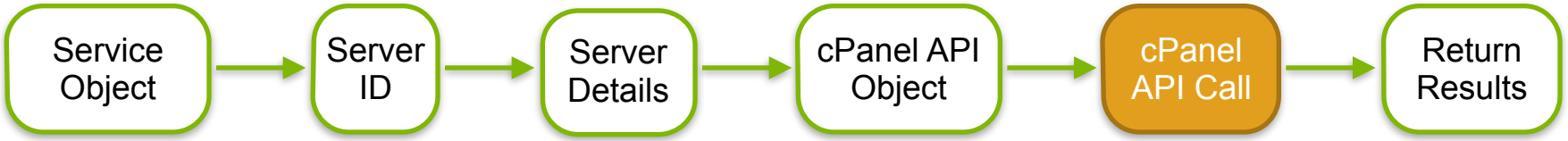
Source

github.com/n8whnp/cPconf-2015

Contains all code examples from our planned demo's.

Review of the Helper Function

Fetch Server Load



Used throughout our demos.

I'm a model

```php
// See http://docs.whmcs.com/classes/classes/WHMCS.Service.Service.html for details on this model
/** @var Service $service */
try {
    $service = Service::findOrFail($serviceId);
} catch (Exception $e) {
    logActivity('Exception caught when trying to load the Service Model:' . $e->getMessage());
    return null;
}
```

```php
// No need to do anything if the service is not active or suspended on the server.
if (in_array($service->status, array('Pending', 'Terminated', 'Cancelled', 'Fraud'))) {
    return null;
}

// We only want to do this work on cPanel products, use other hooks for other modules.
if ($service->product->module != 'cpanel') {
    return null;
}
```

Class based on a DB table / DB Relationship

http://docs.whmcs.com/classes/namespaces/WHMCS.html

Eloquent Query Builder

```php
// See http://docs.whmcs.com/Interacting_With_The_Database
$server = Capsule::table('tblservers')
    ->where('id', $service->serverId)
    ->first();
```

Can be used for any db table in WHMCS
http://docs.whmcs.com/Interacting_With_The_Database

cPanel's PHP Library

```
require_once ROOTDIR . DIRECTORY_SEPARATOR . 'includes' . DIRECTORY_SEPARATOR
    . 'hooks' . DIRECTORY_SEPARATOR . 'cpanelConference2015' . DIRECTORY_SEPARATOR . 'cpanel-xmlapi.php';
```

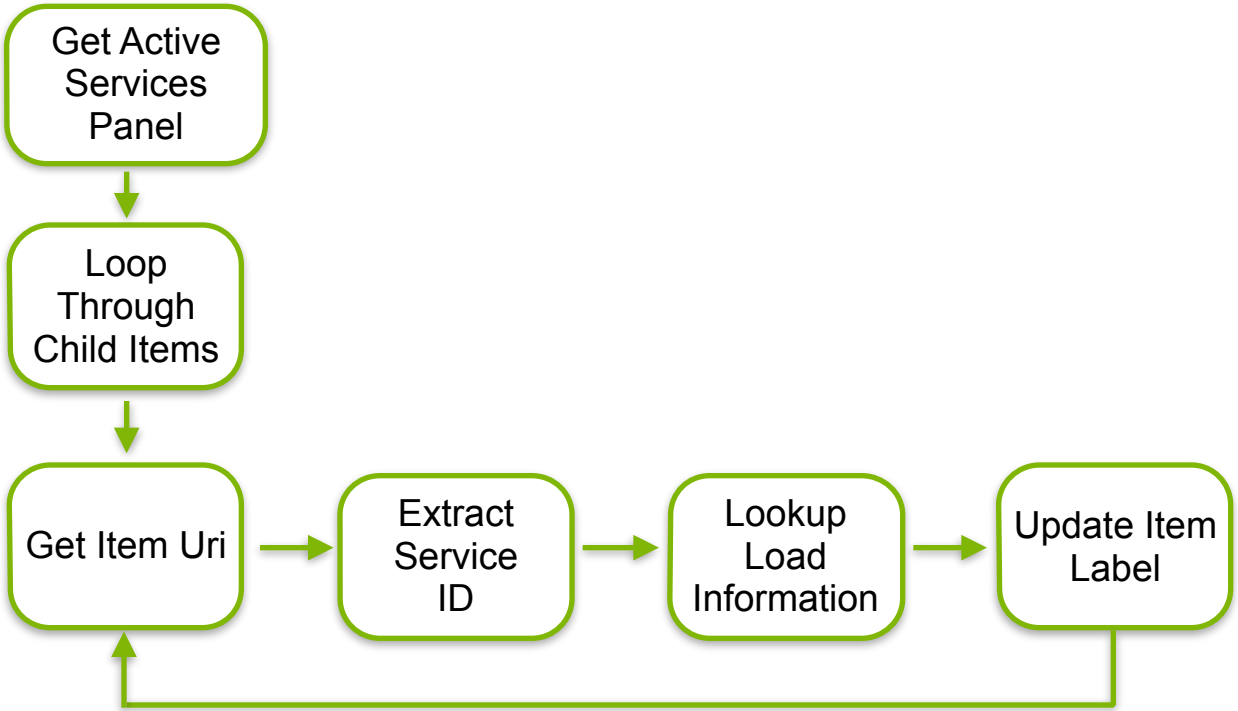
```
// See https://github.com/CpanelInc/xmlapi-php
$cPServer = new xmlapi($server->ipaddress, $server->username, decrypt($server->password));

// See https://documentation.cpanel.net/display/SDK/WHM+API+0+Functions+-+loadavg
$loadAverage = $cPServer->loadavg();
```

https://github.com/CpanelInc/xmlapi-php

Adding Load Info to the Home Page

Homepage Panels are Menu Items underneath it all.

populateLoadAverageInHomepagePanels()

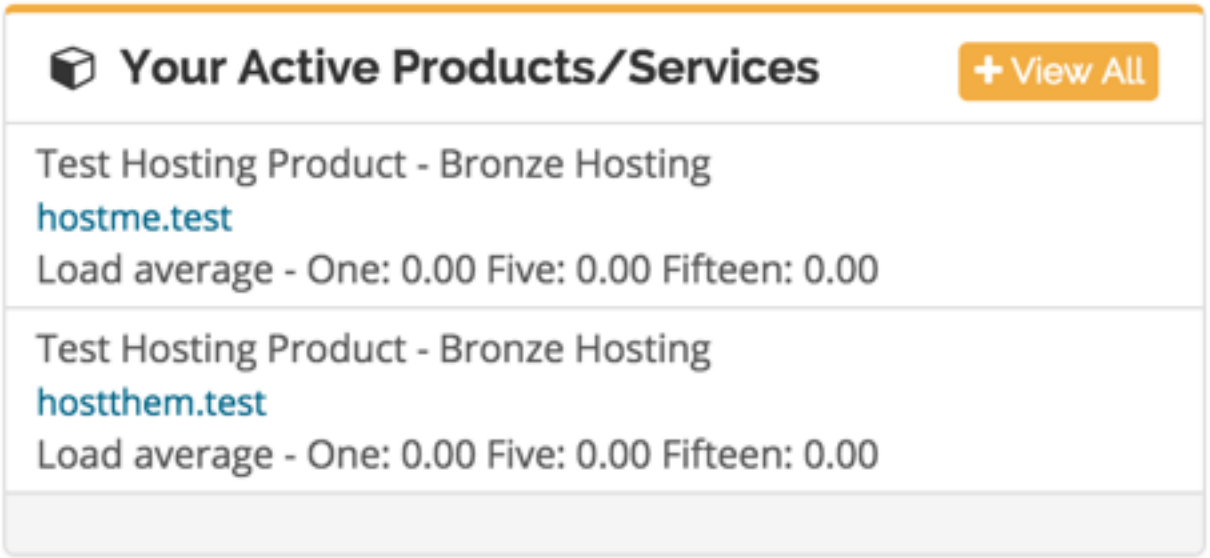


triggered by: ClientAreaHomepagePanels hook point

populateLoadAverageInHomepagePanels()

```php
foreach ($servicesPanel->getChildren() as $serviceLink) {
    parse_str(parse_url($serviceLink->getUri(), PHP_URL_QUERY));

    /** @var int $id Created by parse_str() */
    /** @var Service $service */
    // See http://docs.whmcs.com/classes/classes/WHMCS.Service.Service.html for details on this model
    $service = Service::findOrFail($id);
    $loadAverage = getLoadAverageFromService($service);

    if ($loadAverage) {
        $label = $serviceLink->getLabel();
        $label .= "<br>Load average - One: {$loadAverage->one} ";
        $label .= "Five: {$loadAverage->five} ";
        $label .= "Fifteen: {$loadAverage->fifteen}";
        $serviceLink->setLabel($label);
    }
```

populateLoadAverageInHomepagePanels()

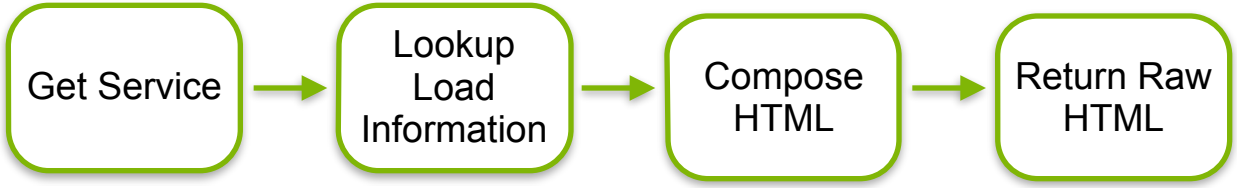


triggered by: ClientAreaHomepagePanels hook point

Adding Load Info to the Product Details

(5.3 style hook)

populateLoadAverageInProductDetailsOutput()

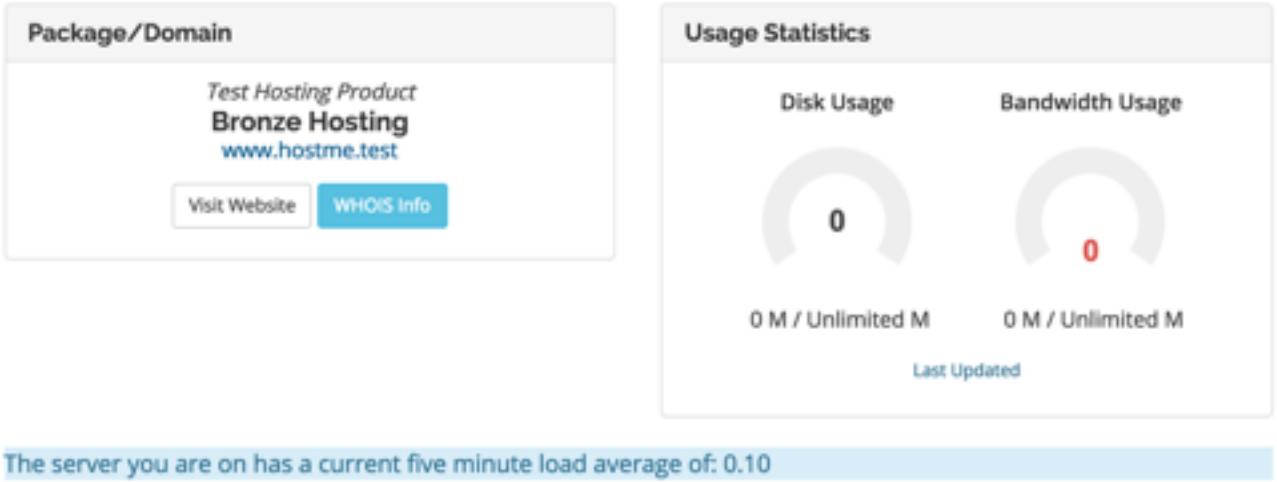


triggered by: ClientAreaProductDetailsOutput hook point

populateLoadAverageInProductDetailsOutput()

```php
function populateLoadAverageInProductDetailsOutput($params)
{
    $service = $params['service'];
    $loadAverage = getLoadAverageFromService($service);

    $bodyHtml = <<<EOT
<div class="alert-info" role="alert">
    The server you are on has a current five minute load average of: {$loadAverage->five}
</div>
<br>
EOT;

    return $bodyHtml;
}
```

populateLoadAverageInProductDetailsOutput()

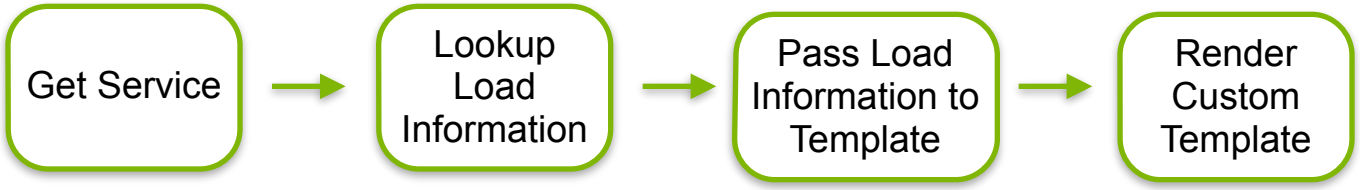


triggered by: ClientAreaProductDetailsOutput hook point

Adding Load Info to the Product Details

(6.0 style hook)

populateLoadAverageInProductDetailsPage()



triggered by: ClientAreaProductDetailsPreModuleTemplate hook point
(added in 6.1.0-rc.1)

populateLoadAverageInProductDetailsPage()

```php
function populateLoadAverageInProductDetailsPage($params)
{
    $serviceId = $params['serviceid'];

    // See http://docs.whmcs.com/classes/classes/WHMCS.Service.Service.html
    /** @var Service $service */
    try {...} catch (Exception $e) {...}

    $loadAverage = getLoadAverageFromService($service);

    // Simple conversion from SimpleXMLElement to array
    return array('loadAverage' => (array)$loadAverage);
}
```

populateLoadAverageInProductDetailsPage()

```
    <div class="col-sm-4 col-xs-6" id="oneMinuteLoad">
        <strong>One Minute Load Average</strong>
        <br /><br />
        <input type="text" value="{$loadAverage.one}" class="usage-dial" data-fgColor="#d9534f" data-angleOffset="-125"
Arc="250" data-min="0" data-max="10" data-readOnly="true" data-width="100" data-height="80" />
        <br /><br />
        {$loadAverage.one}  Processes Wanting to Run On Average
    </div>
```

In: templates/six/modules/servers/cpanel/overview.tpl

populateLoadAverageInProductDetailsPage()

triggered by: ClientAreaProductDetailsBeforeModuleTemplate hook point
(added in 6.1.0-rc.1)

Template Overrides

Custom Module Template for theme
ex: templates/six/modules/servers/cpanel/overview.tpl

Custom Module Template
ex: modules/servers/cpanel/templates/overview.tpl

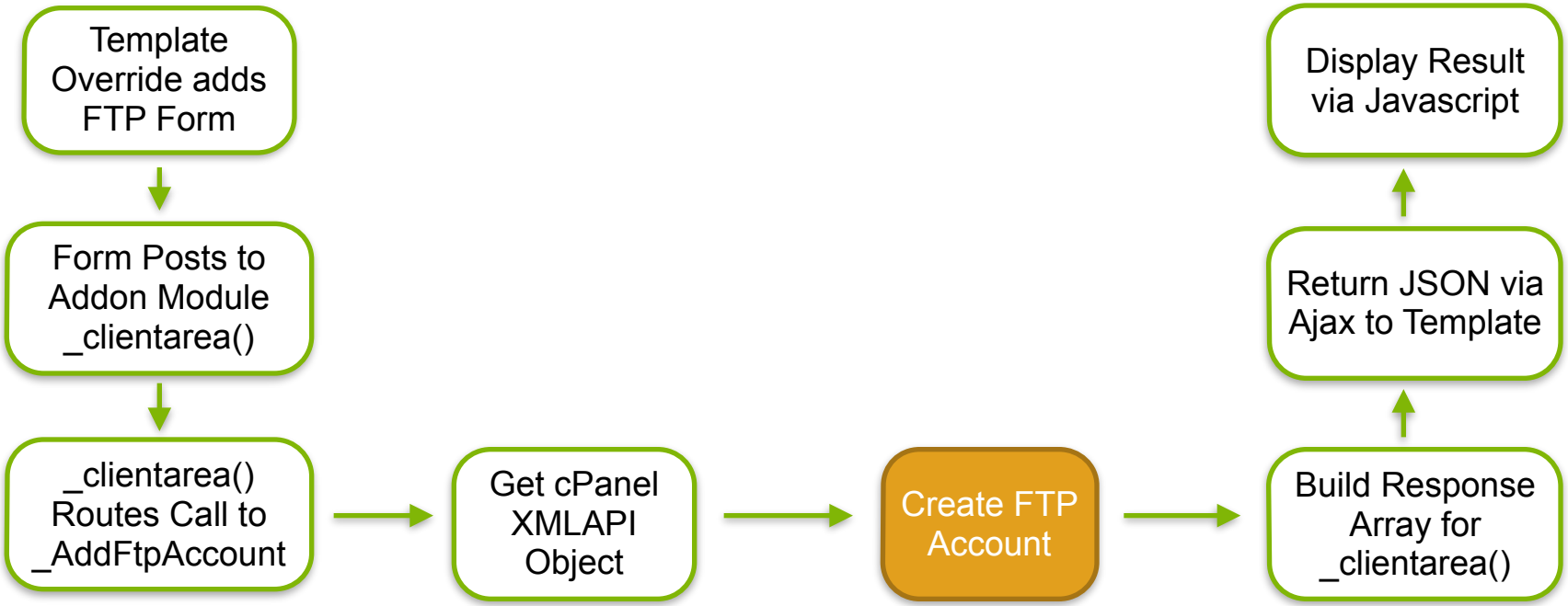
Theme Template
ex: templates/six/clientareaproductdetails.tpl

http://docs.whmcs.com/Working_with_Module_Templates

Adding Actions to an Existing Module

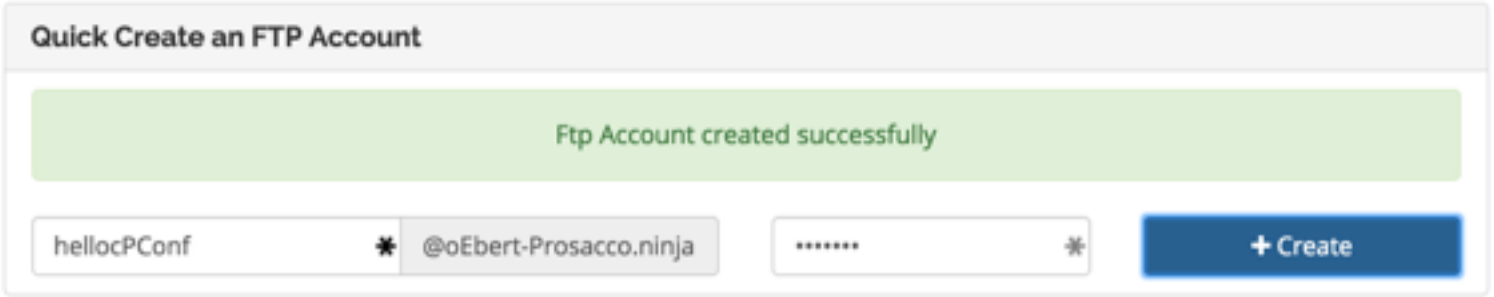
http://docs.whmcs.com/Addon_Module_Developer_Docs

Adding a FTP Account from WHMCS



source code in: addons/cpanelextender/cpanelextender.php

Adding a FTP Account from WHMCS



source code in: addons/cpanelextender/cpanelextender.php

Kevin's Live Demo