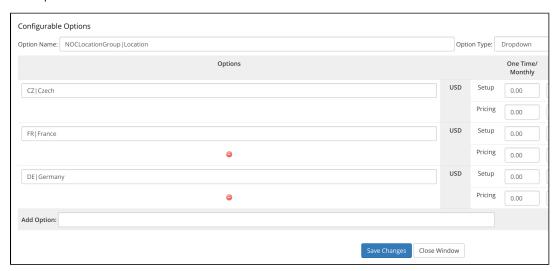# VPS Location Groups

> ⚠️ With this function you can not only determine the node for a location configurable option, but you can also use it to create your own algorithm to override the default host system.
> For example, to deploy SSD products on other host systems than the HDD products, or to create specific products on 10 Gbit nodes.
> However, the option group "NOCLocationGroup" must always be present to execute the function.
>
> The default WHMCS $params variable get passed to these function. The $params variable contains all informations about the product.

If you want to offer multiple locations for VPS via Configurable Options - or you have your own algorithm for determining the VPS host system - you can override the selected node in the product configuration.

To do this, create a Configurable Option named "NOCLocationGroup" and define in the options the options that the customer can select. In this example we setup a selection of countries.

Configurable Options				
Option Name: NOCLocationGroup|Location			Option Type:	Dropdown
Options				**One Time/ Monthly**
CZ|Czech		USD	Setup	0.00
			Pricing	0.00
FR|France		USD	Setup	0.00
⊖			Pricing	0.00
DE|Germany		USD	Setup	0.00
⊖			Pricing	0.00
Add Option:				

<center>[Save Changes] [Close Window]</center>

The module supports "Friendly Display Names", which are also used in this example:

> *On occasion a module may require a configurable option value to be formatted in a certain way, but this might not be very easy for visitors to understand. WHMCS can display a friendly name to visitors on the order form, emails and invoices, but still send the required machine code to the module.*

For the module to know which host system has a reference to the selected option, you must specify this in the /dedicated/modules/servers/dedicated /customconfig.php file. A usage example can be found in the file /dedicated/modules/servers/dedicated/customconfig.example.php.
If you return an array with multiple values, the module will select a random node.

```php
function nocpsforwhmcs_vpsGroupAssignment ($params) {
    $hostGroups = array ('CZ' => array (
                                '172.16.1.2' => array ('provision' => 1),
                                '172.16.1.3' => array ('provision' => 0),
                            ),
                    'FR' => array (
                                '172.17.1.5' => array ('provision' => 1)
                            ),
                );

    return $hostGroups;
}
```

> ℹ️ **Supports multiple NOC-PS servers**
>
> The hostsystems can be distributed across multiple NOC-PS installations. The module searches in all added NOC-PS servers until it finds the specified hostsystem IP.