



Using the XML API

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XML API

```
<xml>  
  <description>Outputs data from cPanel and  
    WHM operations in XML  
  </description>  
</xml>
```

Currently Available in cPanel 11

XML API Topics

» XML API Format / Structure

» Key Functions

» **Calling API1 and API2 functions**

– **Using AJAX Principles with the XML API**

XML API Structure / Format

Calling an XML API function from WHM:

```
https://${domain}:2087/xml-  
api/functionname?variable=value&variable2=value2
```

What's your function, function?

Use `https://${domain}:2087/xml-api/applist` to list the available XML API calls on the system.

Example Function Call and Output

» /xml-api/version

- Lists the cPanel / WHM version

Call with:

`https://${domain}:2087/xml-api/version`

Output:

```
<version>
  <version>11.1.0</version>
</version>
<!--
```

Web Host Manager (c) cPanel, Inc. 1997-2007 <http://cpanel.net/>
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```
-->
```

Using the Output

Javascript

http://www.w3schools.com/xml/xml_parser.asp

```
function getXMLAPIdata (inVar) {  
    var rootNode = inVar.responseXML;  
    var cpanelResult =  
        rootNode.getElementsByTagName('version')[0];  
    var cpanelData =  
        cpanelResult.getElementsByTagName('version');  
}  
var version =  
    cpanelData.getElementsByTagName('version')[0].firstChild.  
    nodeValue;
```

Using the Output

Perl

<http://search.cpan.org/dist/XML-Simple/lib/XML/Simple.pm>

```
#!/usr/bin/perl
use XML::Simple;
my $xml = new XML::Simple;
my $data = $xml->XMLin("data.xml");
my $version = $data->{version};
```

Using the Output

PHP

<http://www.php.net/xml>

<http://www.analysisandsolutions.com/code/phpxml.htm>

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XML API – Key Functions

»» Good base with more to come

»» Send us requests (mailing list)

http://mail.cpanel.net/mailman/listinfo/xmlapi_cpanel.net

XML API – Key Functions

»» Accounting:

- /xml-api/addpkg
 - Adds a hosting package
- /xml-api/createacct
 - Creates an account
- /xml-api/changepackage
 - Changes an account's package
- /xml-api/suspendacct
 - Suspends an account

XML API – Key Functions

»» Server Level:

- /xml-api/gethostname
 - Displays the Server's Hostname
- /xml-api/version
 - Displays cPanel / WHM Version
- /xml-api/restartservice?service=XXXXX
 - Restart a Service (Apache, MySQL, etc)

XML API – Key Functions

➤➤ Resellers:

- /xml-api/saveacllist
 - Create a Reseller ACL List
- /xml-api/setupreseller
 - Give Reseller Status to an Account
- /xml-api/setacls
 - Set the Reseller's ACL List

Calling API1 and API2 Functions

- » Call cPanel Functions through WHM
- » Call API1 and API2 functions in cPanel for XML output



API Docs

<http://www.cpanel.net/plugins/devel/>

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API What?

```
<?cp Module::function(% , def) output=output_list  
  | | 'message' ?>
```

Module

Module to Access

function

Function to Access

%

Output

def

Variable to Output

API2 Example

```
<?cp Email::listpopswithdisk(% % % email,diskused,diskquota)  
domain=exampledomain.com ?>
```

email

Email account (user@domain.tld)

diskused

Disk space usage for the email account (in MB)

diskquota

Disk space quota for the email account (in MB)

domain

Domain to list accounts for

XML API1+2 - Basic Structure

API2

/xml-

```
api/cpanel?user=bob&xmlin=<cpanelaction><module>Email</module><func>listpopswithdisk</func></cpanelaction>
```

API1

/xml-

```
api/cpanel?user=bob&xmlin=<cpanelaction><module>Email</module><func>addpop</func><apiversion>1</apiversion></cpanelaction>
```

Adding Arguments - API1

API1

/xml-

```
api/cpanel?user=bob&xmlin=<cpanelaction><module>Email</module><func>addpop</func><apiversion>1</apiversion><args>bob</args><args>somepassword</args><args>domain.tld</args></cpanelaction>
```

Adding Arguments - API2

API2:

/xml-

```
api/cpanel?user=bob&xmlin=<cpanelaction><module>Email</module><func>listpopswithdisk</func><args><domain>domain.tld</domain></args></cpanelaction>
```

API2 XML Output

```
-<cpanelresult>
  <apiversion>2</apiversion>
  -<data>
    <_diskquota>250.00</_diskquota>
    <_diskused>0.00</_diskused>
    <diskquota>250.00</diskquota>
    <diskused>0.00</diskused>
    <domain>domain.tld</domain>
    <email>bob@domain.tld</email>
    <humandiskquota>250 MB</humandiskquota>
    <login>bob@domain.tld</login>
    <txtdiskquota>250.00</txtdiskquota>
    <user>bob/user>
  </data>
  <func>listpopswithdisk</func>
  <module>Email</module>
</cpanelresult>
```

XML API and AJAX in cPanel

Got javascript?

```
/usr/local/cpanel/base/frontend/x3/js/x3.js
```

- `cpanel_api1()`
- `cpanel_api1_parser(o)`
- `cpanel_api2()`
- `cpanel_api2_parser(o)`

cpanel_api2() - Usage

```
cpanel_api2(callback, module, function, argument, value, argument2,  
value2);
```

callback

Function to handle the call back

module

API2 module to access

function

API2 function to access

argument

First variable to pass to the API2 function

value

Value of that variable

API 2 Example

```
cpanel_api2(defcallback,'Email','listdefaultaddresses','domain',domain);
```

defcallback

Default Address Callback Handler

Email

Module

listdefaultaddresses

Function

domain

Variable name

domain

Variable value

cpanel_api2()

```
function cpanel_api2() {  
    var argv = cpanel_api2.arguments;  
    var mycallback = argv[0];  
    var module = argv[1];  
    var func = argv[2];  
    var argc = argv.length;  
  
    var callback = {  
        success: cpanel_api2_parser,  
        argument: mycallback  
    };  
};
```

cpanel_api2()

```
var sFormData = 'xmlin=<cpanelaction><apiversion>2</apiversion><module>' +  
  module + '</module><func>' + func + '</func><args>';  
for(var i=3;i<argc;i+=2) {  
  sFormData += '<' + argv[i] + '>' + argv[i+1] + '</' + argv[i] + '>';  
  
  }  
sFormData += '</args></cpanelaction>';  
YAHOO.util.Connect.asyncRequest('POST', '/xml-api/cpanel' ,  
  callback,sFormData);  
}
```

Parsing the API2 Callback

```
function cpanel_api2_parser(o) {  
    var mycallback = o.argument;  
    var rootNode = o.responseXML;  
    var cpanelresultEl =  
        rootNode.getElementsByTagName('cpanelresult')[0];  
    var cpaneldataEl =  
        cpanelresultEl.getElementsByTagName('data');  
  
    if (mycallback) {  
        mycallback(cpaneldataEl);  
    }  
}
```

Using that Data

```
-  
  <cpanelresult>  
<apiversion>2</apiversion>  
-  
  <data>  
<defaultaddress>user@somedomain.com</defaultaddress>  
<domain>domain.tld</domain>  
</data>  
<func>listdefaultaddresses</func>  
<module>Email</module>  
</cpanelresult>
```

Using that Data - Our Function

```
function defcallback(result) {  
    var defAddr =  
        result[0].getElementsByTagName('defaultaddress')[0];  
    var defaddy = '<cpanel print="NTNotFound">';  
    if (defaultAddress.firstChild) {  
        defaddy = defAddr.firstChild.nodeValue;  
    }  
    document.getElementById('currentdest').innerHTML=defaddy;  
}
```

Q & A

Huh? What did you just talk about?

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