

Custom Control Panel Add-On Guide

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Custom Control Panel Add-On Guide

README



README FIRST

Welcome to the R1Soft - Custom Control Panel Add-On Guide

The purpose of this manual is to provide you with complete instructions on how to integrate the Control Panel Add-On using a custom control panel not presented in the [list](#) of supported control panels. To find a specific topic on a particular section, click on one of the books and a list of topics will appear. Or you can use the index and search features to target your specific interests.

Note: You can refer to the Control Panel Add-On Admin Guide for general information such as enabling and tuning Control Panel Add-On for your environment.

Common Questions

You might want to view our list of common questions located in the following document:

[Common Questions](#)

Common Questions

Common Questions

Below is a list of common questions specific to performing an integration of the Control Panel Add-On with a custom control panel. Each question is linked to a document for further information.

Integration With A Custom Control Panel

- [What are the options for integrating the Control Panel Add-On with my control panel?](#)
- [How can I integrate my control panel with R1Soft Backup solutions?](#)
- [How can I modify the authentication file?](#)
- [How can I enable my integration script?](#)

Note: You can refer to the Control Panel Add-On Admin Guide for general information such as enabling and tuning Control Panel Add-On for your environment.

Integration With A Custom Control Panel

Overview

Control Panel Add-On is a special feature added for web hosting providers. The Control Panel Module provides integration with a number of control panels that can be installed on Hosts. With the Control Panel Add-On enabled for the Host, the root administrator can schedule Backups for the Host. Control panel users can access their Backups and Restore files by themselves. While each control panel user only has access to Backups of their work space, the CDP Server root administrator can access all Backups.

The Control Panel Add-On scripts are written in Perl and distributed under Apache open source license allowing you to modify the code. You can adapt the control panel integration feature for control panels that are not presented in the [list](#) of supported control panels.

You can modify the existing control panel integration scripts in a number of ways.

Example 1. By default, only control panel users can see the same virtual site directory as if they used SSH or FTP to access their virtual site. They can only Restore files into their virtual site account or directory. By modifying the control panel scripts in addition to the web content, other directories on the same server can be linked into the control panel account for file Restores.

Note: The existing Plesk script uses this functionality to allow users to restore email.

Example 2. Another option is to make the script check the username against an allowed list of users. File Restores could be an option only given to control panel accounts that paid extra or have a premium account.

The control panel integration scripts are open source as there are many options to make the integration work differently. We hope it encourages people to enhance the scripts and share the new scripts with other users.

Read more in [Integration With Custom Control Panel](#).

Note: You can refer to the Control Panel Add-On Admin Guide for general information including enabling and tuning the Control Panel Add-On for your environment.

Integration With Custom Control Panel

To integrate your custom control panel with R1Soft Backup software, complete the following two (2) steps:

Step 1. On a system where the Linux Agent is installed, look in the [/usr/lib/buagent/](#) directory to locate Perl scripts for control panel authentication. Adapt one (1) of the existing scripts.

Read more in [Step 1: Modifying Authentication File](#).

Step 2. Then enable your integration script by changing the control panel authentication line in [/etc/buagent/agent_config](#) and restart the [buagent](#) ([/etc/init.d/buagent restart](#)).

Read more in [Step 2: Enabling Your Integration Script](#).

You can find a working example for the H-Sphere control panel in [Integration Example](#).

Step 1: Modifying Authentication File

The list of control panel integration scripts are provided below. Each script concerns one (1) type of control panel.

You can modify an existing integration script using Perl programming language.

By default, all integration scripts are located in the `/usr/lib/buagent/` directory:

```
[root@test7-linux ~]# ls -l /usr/lib/buagent/*auth*
-rwxr----- 1 root root 1069 Feb 11 18:54 /usr/lib/buagent/buagentauth
-rwxr----- 1 root root 1069 Feb 11 18:54 /usr/lib/buagent/buagentauth.cpanel
-rwxr----- 1 root root 1636 Feb 11 18:54 /usr/lib/buagent/buagentauth.ensim
-rwxr----- 1 root root 2218 Feb 11 18:54 /usr/lib/buagent/buagentauth.plesk
```

Note: In newer installations, there will be a script for DirectAdmin as well.

The `buagentauth` file contains the default script which can be modified. You can find a working example of modified script [here](#).

The default script is provided below. It works as-is for any virtual hosting system where there is a user in `/etc/passwd` and where the home directory is also user virtual site directory.

```
#!/usr/bin/perl
#
# Copyright 2006 Righteous Software Inc.
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
# express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
```

```
use warnings;
use strict;
use FindBin;
use lib "$FindBin::RealBin/";
use BuagentAuth;

my $auth_ok = 0;

my $user = $ENV{'BUAGENT_AUTH_ACCOUNT'};
my $pass = $ENV{'BUAGENT_AUTH_PASSWORD'};

my $auth_ref = BuagentAuth::auth($user, $pass);
print "auth_ok:" . $auth_ref->{auth_ok} . "\n";
if ($auth_ref->{auth_ok} == 1) {
    print "uid:" . $auth_ref->{uid} . "\n";
    print "gid:" . $auth_ref->{gid} . "\n";
    print "dir:home:" . $auth_ref->{homedir} . "\n";
}
print "end\n"
```

Proceed to: [Step 2: Enabling Your Integration Script](#)

Step 2: Enabling Your Integration Script

Follow the instructions below to enable the integration script on the machine where the Agent with the Control Panel Add-On is installed.

1. To enable the default script, you need to make changes to [/etc/buagent/agent_config](#). Open this file.

1.1 Enable the control panel user authentication by changing the following string:

```
UserAuthEnabled no
```

to

```
UserAuthEnabled yes
```

Note: The [UserAuthEnabled](#) parameter indicates whether control panel user authentication is enabled (default: no).

1.2 Set the user authentication path to [buagentauth](#).

Change the following line:

```
UserAuthProg /path/to/external/auth/program
```

to

```
UserAuthProg /usr/lib/buagent/buagentauth
```

Note: The [UserAuthProg](#) parameter indicates which external program is used for authentication if user authentication is enabled. By default, [buagent](#) guesses a proper [buagentauth](#) script from LibDir.

2. Then restart the [buagent](#) with the following command:

```
/etc/init.d/buagent restart
```

3. The last step is to enable the Control Panel Add-on Module in the CDP Server. First, you should enable the control panel check box for the Volume that you are going to add Hosts to. While setting the Host options, you will have an opportunity to select an enable check box under the Agent/Host

settings. If you have already added the Host, go to the Host options page in edit mode and select the "Enable Control Panel Module" check box. Read more in the Control Panel Add-On Admin Guide.

You can find a working example of integrating the Control Panel Add-On with **H-Sphere** [here](#).

Integration Example

H-Sphere is a popular hosting automation control panel for shared web hosting services. The working example code for H-Sphere is provided below. You can use the following code for your control panel integration.

```
if ($auth_ref->{auth_ok} == 1 && $auth_ref->{uid} > 500) {
# all hsphere users start above 500, lower numbers are for system
services.
    $auth_ok = 1;
    print "auth_ok:" . $auth_ref->{auth_ok} . "\n";
    print "uid:" . $auth_ref->{uid} . "\n";
    print "gid:" . $auth_ref->{gid} . "\n";
    print "dir:" . $user . ":" . $auth_ref->{homedir} . "\n";
    print "end\n";
    exit();
}

if ( -d "/hsphere/local/var/vpopmail/bin/" ) {
# Mail, we check that the users pass against his vpopmail info.
    my $mailpass = trim(`/hsphere/local/var/vpopmail/bin/vuserinfo -C
$user`);
    if ( $pass eq $mailpass ) {
        $auth_ok = 1;
        print "auth_ok:" . $auth_ok . "\n";
        my $maildir = trim(`/hsphere/local/var/vpopmail/bin/vuserinfo -d
$user`);
        if (-d $maildir) {
            print "dir:" . $user . ":" . $maildir . "/Maildir\n";
        }
        print "end\n";
        exit();
    }
}

if ( -d "/var/lib/mysql/" ) {
# MySQL, we check if the user can login and if so check that mysql is
running.
    my $mysqlcheck = trim(`/usr/bin/mysqladmin -u$user -p$pass ping`);
    if ( $mysqlcheck eq "mysqld is alive" ) {
        $auth_ok = 1;
        print "auth_ok:" . $auth_ok . "\n";
        my $mysqluser = trim(`grep ^user /var/lib/mysql/.my.cnf | cut -d "=" -f2 |`);
    }
}
```

```
sed 's/ //g');
    my $mysqlpass = trim(`grep ^password /var/lib/mysql/.my.cnf | cut -d
"=" -f2 | sed 's/ //g'`);
    my ($dsn) = "DBI:mysql:mysql:localhost";
    my ($dbh, $sth);
    #my (@mysqldir);
    $dbh = DBI->connect ($dsn, $mysqluser, $mysqlpass, { RaiseError =>
1 });
    my $query = qq{ SELECT Db from db where User = "$user" };
    $sth = $dbh->prepare ( $query );
    $sth->execute ();
    while (my @mysqldir = $sth->fetchrow_array()) {
        my $mysqldirname = $mysqldir[0];
        $mysqldirname =~ tr///d;
        print "dir:". $mysqldirname . ":\var/lib/mysql/" . $mysqldirname . "\n";
    }
    $sth->finish();
    $dbh->disconnect();
    print "end\n";
    exit();
}
}

if ( -d "/var/lib/pgsql/" ) {
# PostgreSQL, this one needs some work on user authentication.
    my ($dsn1) = "DBI:Pg:dbname=template1";
    my ($dbh1, $sth1);
    $dbh1 = DBI->connect ($dsn1, $user, $pass);
    if ($dbh1) {
        $auth_ok = 1;
        print "auth_ok:" . $auth_ok . "\n";
        my $query1 = "SELECT oid FROM pg_database, pg_user WHERE
username='$user' AND usesysid=datdba";
        $sth1 = $dbh1->prepare ( $query1 );
        $sth1->execute();
        while (my @pgsqldir = $sth1->fetchrow_array()) {
            my $pgsqldirname = $pgsqldir[0];
            print "dir:". $user . ":\var/lib/pgsql/data/base/" . $pgsqldirname .
"\n";
        }
        $sth1->finish();
        $dbh1->disconnect();
        print "end\n";
        exit();
    }
}
```

```
}  
}
```

Support

Getting Support

Getting support is easy at R1Soft. We are here to ensure you get the most out of your Continuous Data Backup software. For faster responses by our technical team, please send an email to support@r1soft.com or call us directly at 713-344-0047, select option 4, and leave a message.

Support Methods:

- support@r1soft.com *Preferred*
- 713-344-0047 option 4 to leave a message