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Rocky Enterprise Linux 9.2 Manual Pages on command 'Apache2::Directive.3pm'

\$ man Apache2::Directive.3pm

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NAME

Apache2::Directive - Perl API for manipulating the Apache configuration tree

Synopsis

```
use Apache2::Directive ();

my $tree = Apache2::Directive::conftree();

my $documentroot = $tree->lookup('DocumentRoot');

my $vhost = $tree->lookup('VirtualHost', 'localhost:8000');

my $servername = $vhost->{'ServerName'};

use Data::Dumper;

print Dumper $tree->as_hash;

my $node = $tree;

while ($node) {

    print $node->as_string;

    #do something with $node

    my $directive = $node->directive;

    my $args = $node->args;

    my $filename = $node->filename;

    my $line_num = $node->line_num;

    if (my $kid = $node->first_child) {

        $node = $kid;

    }

    elsif (my $next = $node->next) {
```

```

    $node = $next;
}
else {
    if (my $parent = $node->parent) {
        $node = $parent->next;
    }
    else {
        $node = undef;
    }
}
}
}

```

Description

"Apache2::Directive" provides the Perl API for manipulating the Apache configuration tree

API

"Apache2::Directive" provides the following functions and/or methods:

"args"

Get the arguments for the current directive:

```
$args = $node->args();
```

obj: \$node ("Apache2::Directive object")

ret: \$args (string)

Arguments are separated by a whitespace in the string.

since: 2.0.00

For example, in httpd.conf:

```
PerlSwitches -M/opt/lib -M/usr/local/lib -wT
```

And later:

```
my $tree = Apache2::Directive::conftree();
```

```
my $node = $tree->lookup('PerlSwitches');
```

```
my $args = $node->args;
```

\$args now contains the string "-M/opt/lib -M/usr/local/lib -wT"

"as_hash"

Get a hash representation of the configuration tree, in a format suitable for inclusion in <Perl> sections.

```
$config_hash = $confree->as_hash();
```

obj: \$confree ("Apache2::Directive object")

The config tree to stringify

ret: \$config_hash (HASH reference)

since: 2.0.00

For example: in httpd.conf:

```
<Location /test>
    SetHandler perl-script
    PerlHandler Test::Module
</Location>
```

And later:

```
my $tree = Apache2::Directive::confree();
my $node = $tree->lookup('Location', '/test/');
my $hash = $node->as_hash;
```

\$hash now is:

```
{
    'SetHandler' => 'perl-script',
    'PerlHandler' => 'Test::Module',
}
```

"as_string"

Get a string representation of the configuration node, in httpd.conf format.

```
$string = $node->as_string();
```

obj: \$node ("Apache2::Directive object")

The config tree to stringify

ret: \$string (string)

since: 2.0.00

For example: in httpd.conf:

```
<Location /test>
    SetHandler perl-script
    PerlHandler Test::Module
</Location>
```

And later:

```
my $tree = Apache2::Directive::confree();
my $node = $tree->lookup('Location', '/test/');
```

```
my $string = $node->as_string;
```

\$string is now:

```
SetHandler perl-script
```

```
PerlHandler Test::Module
```

"conftree"

Get the root of the configuration tree:

```
$conftree = Apache2::Directive::conftree();
```

obj: "Apache2::Directive" (class name)

ret: \$conftree ("Apache2::Directive object")

since: 2.0.00

"directive"

Get the name of the directive in \$node:

```
$name = $node->directive();
```

obj: \$node ("Apache2::Directive object")

ret: \$name (string)

since: 2.0.00

"filename"

Get the filename the configuration node was created from:

```
$filename = $node->filename();
```

obj: \$node ("Apache2::Directive object")

ret: \$filename (string)

since: 2.0.00

For example:

```
my $tree = Apache2::Directive::conftree();
```

```
my $node = $tree->lookup('VirtualHost', 'example.com');
```

```
my $filename = $node->filename;
```

\$filename is now the full path to the httpd.conf that VirtualHost was defined in.

If the directive was added with "add_config()", the filename will be the path to the httpd.conf that triggered that Perl code.

"first_child"

Get the first child node of this directive:

```
$child_node = $node->first_child;
```

obj: \$node ("Apache2::Directive object")

ret: \$child_node ("Apache2::Directive object")

Returns the first child node of \$node, "undef" if there is none

since: 2.0.00

"line_num"

Get the line number in a filename this node was created at:

```
$lineno = $node->line_num();
```

obj: \$node ("Apache2::Directive object")

arg1: \$lineno (integer)

since: 2.0.00

"lookup"

Get the node(s) matching a certain value.

```
$node = $conftree->lookup($directive, $args);
```

```
@nodes = $conftree->lookup($directive, $args);
```

obj: \$conftree ("Apache2::Directive object")

The config tree to stringify

arg1: \$directive (string)

The name of the directive to search for

opt arg2: "args" (string)

Optional args to the directive to filter for

ret: \$string (string / ARRAY of HASH refs)

In LIST context, it returns all matching nodes.

In SCALAR context, it returns only the first matching node.

If called with only \$directive value, this method returns all nodes from that directive. For example:

```
@Alias = $conftree->lookup('Alias');
```

returns all nodes for "Alias" directives.

If called with an extra \$args argument, it returns only nodes where both the directive and the args matched. For example:

```
$VHost = $tree->lookup('VirtualHost', '_default_:8000');
```

since: 2.0.00

"next"

Get the next directive node in the tree:

```
$next_node = $node->next();
```

obj: \$node ("Apache2::Directive object")

ret: \$next_node ("Apache2::Directive object")

Returns the next sibling of \$node, "undef" if there is none

since: 2.0.00

"parent"

Get the parent node of this directive:

```
$parent_node = $node->parent();
```

obj: \$node ("Apache2::Directive object")

ret: "parent_node" ("Apache2::Directive object")

Returns the parent of \$node, "undef" if this node is the root node

since: 2.0.00

See Also

[mod_perl 2.0 documentation](#).

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Authors

The mod_perl development team and numerous contributors.

perl v5.34.0

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