Macros

Redundant configs

Welcome

Reduce redundant configuration using Macros

Redundant Configuration example in Virtual host – multiple web site hosting

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Welcome

```
<VirtualHost *:80>
ServerName server1.com
DocumentRoot "/var/www/html/server1_websites"
ErrorLog /var/log/server1_websites-error_log
CustomLog /var/log/server1_websites-access_log common

<Directory "/var/www/html/server1_websites">
Require all granted
</Directory>

</VirtualHost>
```

```
<VirtualHost *:80>
ServerName server2.com
DocumentRoot "/var/www/html/server2_websites"
ErrorLog /var/log/server2_websites-error_log
CustomLog /var/log/server2_websites-access_log common

<Directory "/var/www/html/server2_websites">
Require all granted
</Directory>

</ VirtualHost>
```

```
<VirtualHost *:80>
ServerName server3.com
DocumentRoot "/var/www/html/server3_websites"
ErrorLog /var/log/server3_websites-error_log
CustomLog /var/log/server3_websites-access_log common

<Directory "/var/www/html/server3_websites">
Require all granted
</Directory>

</VirtualHost >
```

```
<VirtualHost *:80>
ServerName server4.com
DocumentRoot "/var/www/html/server4_websites"
ErrorLog /var/log/server4_websites-error_log
CustomLog /var/log/server4_websites-access_log common

<Directory "/var/www/html/server4_websites">
Require all granted
</Directory>

</VirtualHost>
```

Macro module

➡️ LoadModule macro_module modules/mod_macro.so

```
<Macro CommonVHost $sername $adminid $DCRoot $errlog $CSlog >
<VirtualHost *:80>
     ServerName $sername
     ServerAdmin $adminid
     DocumentRoot "/var/www/html/$DCRoot"
     ErrorLog /var/log/httpd/$errlog
     CustomLog /var/log/httpd/$CSlog common
          <Directory "/var/www/html/$DCRoot">
            Require all granted
          </Directory>
</VirtualHost>
</Macro>

use CommonVHost server1.com admin@server1.com server1_websites server1_websites-error_log server1_websites-access_log
use CommonVHost server2.com admin@server2.com server2_websites server2_websites-error_log server2_websites-access_log
use CommonVHost server3.com admin@server3.com server3_websites server3_websites-error_log server3_websites-access_log
use CommonVHost server4.com admin@server4.com server4_websites server4_websites-error_log server4_websites-access_log
```
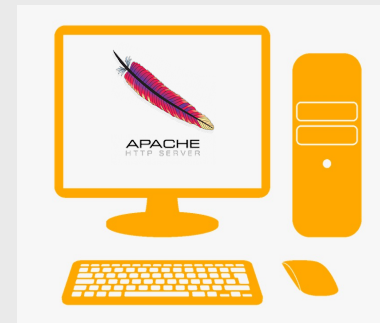
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Let's Try out Macro in the Lab..

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