Shell 结合 cgi 实现 web 功能

一.开启 cgi 脚本

1.cgi 网站根目录

<IfModule alias_module>

    ScriptAlias /cgi-bin/ "/usr/local/apache2//cgi-bin/"

</IfModule>

2.cgi 访问权限

<Directory "/usr/local/apache2//cgi-bin">

    AllowOverride None

    Options None

    Order allow,deny

    Allow from all

</Directory>

二.cgi 查看 linux 系统网卡信息

```
#!/bin/bash

#a.cgi


echo "content-type:text/html;charset=utf-8"

echo ""
```

echo "<html>"

echo "<head>"

echo "<style>"

echo "*{font-family:微软雅黑}"

echo "</style>"

echo "</head>"

echo "<body>"

echo "<pre>"

ifconfig

echo "</pre>"

echo "</body>"

echo "</html>"

三.cgi 脚本中预定义变量

1.服务器 cgi 平台

echo $SERVER_SOFTWARE

2.服务器地址

echo $SERVER_NAME

3.服务器端口

echo $SERVER_PORT

4.脚本文件路径

echo $SCRIPT_NAME

5.脚本参数

echo $QUERY_STRING

6.客户端地址

echo $REMOTE_ADDR

四.查看系统用户

echo "<pre>"

cat /etc/passwd | awk -F: '{print $1}'

echo "</pre>"

五.表单操作

1.get 地址栏参数

qs=$QUERY_STRING

line=`echo $qs|sed 's/&/ /g'`

for loop in $line

do

  name1=`echo $loop|sed 's/=/ /g'|awk '{print $1}'`

  value1=`echo $loop|sed 's/=/ /g'|awk '{print $2}'|sed 's/+/ /g'|sed -e

's/%\(\)/\\\x/g'`

  str=`printf "${name1}='${value1}'"`

  eval $str

done

echo $username

echo $mess

2.get 数据传输

1)index.cgi

echo "<h1>用户信息:</h1><hr>";

echo "<form action='get.cgi' method='get'>";

echo "<p>用户名:</p>";

echo "<p><input type='text' name='username'></p>";

echo "<p>密码:</p>";

echo "<p><input type='text' name='password'></p>";

echo "<p><input type='submit' value='OK'></p>";

echo "</form>";

2)get.cgi

qs=$QUERY_STRING

line=`echo $qs|sed 's/&/ /g'`

for loop in $line

do

    name1=`echo $loop|sed 's/=/ /g'|awk '{print $1}'`

    value1=`echo $loop|sed 's/=/ /g'|awk '{print $2}'|sed 's/+/ /g'|sed -e

's/%\(\)/\\\x/g'`

```
    str=`printf "${name1}='${value1}'"`

    eval $str

done

echo $username

echo $mess
```

3.post 数据传输

1)post 请求

```
echo "<form action='get.cgi' method='post'>";

echo "<p>用户名:</p>";

echo "<p><input type='text' name='username'></p>";

echo "<p>密码:</p>";

echo "<p><input type='text' name='password'></p>";

echo "<p><input type='submit' value='OK'></p>";

echo "</form>";
```

2)post 接收

```
if [ $REQUEST_METHOD = 'POST' ]

then

    QUERY_STRING=`cat -`

fi

qs=$QUERY_STRING
```

```
line=`echo $qs|sed 's/&/ /g'`


for loop in $line

do

    name1=`echo $loop|sed 's/=/ /g'|awk '{print $1}'`

    value1=`echo $loop|sed 's/=/ /g'|awk '{print $2}'|sed 's/+/ /g'|sed -e

's/%\(\)/\\\x/g'`

    str=`printf "${name1}='${value1}'"`

    eval $str

done

echo $username

echo $mess
```

六.代码实例

1.form 表单

```
echo "<h1>输入指令:</h1><hr>";

echo "<form action='get.cgi' method='post'>";

echo "<p><input type='text' name='code'></p>";

echo "<p><input type='submit' value='OK'></p>";

echo "</form>";
```

2.get 数据

```
if [ $REQUEST_METHOD = 'POST' ]
```

```
then

    QUERY_STRING=`cat -`

fi


qs=$QUERY_STRING

line=`echo $qs|sed 's/&/ /g'`


for loop in $line

do

    name1=`echo $loop|sed 's/=/ /g'|awk '{print $1}'`

    value1=`echo $loop|sed 's/=/ /g'|awk '{print $2}'|sed 's/+/ /g'|sed -e
's/%\(\)/\\\x/g'`

    str=`printf "${name1}='${value1}'"`

    eval $str

done

eval $code
```

3.for 循环(/mnt/for.sh)

```
for user in `awk -F: '{print $1}' /etc/passwd`

do

    echo $user

    sleep 0.2

done
```

4.form 表单中输入指令

1)/mnt/a.sh

2)ping 192.168.20.2

3)uptime

4)free

七.Shell 结合 cgi 实现 web 功能课程结束，谢谢!