

Virtual Host System of On-line Registration and Real-time Opening Based on Serv-U

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Abstract—Serv-U's ODBC database connection techniques is introduced to achieve real-time FTP user account opening procedures combined with real-time opening ASP hosting space, so users can instantly upload your own information or websites, the descriptions can be achieved more popular virtual Construction of the host space. The realization principle is presented firstly, then the realization steps of virtual host system are described, and main procedure is given. Finally, the testing results indicate that the system is effective.

Keywords—IIS configuration;SERV-U;ODBC; FTP

I. INTRODUCTION

In Internet, a lot of companies provide the application of virtual host now[1], but need expenses, if we are in a campus net or a business enterprise net, then virtual host system can be real-time opened by IS+asp+Serv-U, and provide web and ftp service for customer. Each customer can manage the own space independently[2-4]. Originally what we know is to build up a FTP account number first by handicraft by Serv-U[5], then tell customer to carry on logging, and still want to build up a document's clipping for customer before logging, in order to make the customer upload a document, but we can automatically carry out FTP account number , apply and break through corresponding virtual host space of the FTP account number by IIS +asp+Serv-U now.

II. REALIZATION PRINCIPLE OF VIRTUAL HOST SYSTEM

Take Serv-U6.4 as an example to carry on introduction. The serv-u software records customer's information by using ini document. Its information and meaning are as follows:

[GLOBAL] deposits a system information, including the serv's registration information.

Version=6.4.0.4

ProcessID=4580

[DOMAINS] // Deposit the information of area

Domain1=0.0.0.0|22|192.168.0.162|1|0|0 // name and ports of Area 1

Domain2=0.0.0.0|21|192.168.1.100|2|0|1 // name and ports of Area 2
[Domain1]
User1=admin|1|0
User2=up|1|0
User3=anonymous|1|0 // The information of user :admin,up,anonymous
DynDNSEnable=1 Start dynamic DNS
[USER=up|1]
Password=izC07474F2C5562CA953151DD72AA1FC
51
HomeDir=D:\hostroot\down
RelPaths=1
PasswordLastChange=1195809712
TimeOut=600
Access1=D:\hostroot\down|RLP // The information of UP user
.....
OBCSource= // //ODBC data source's name
ODBCTables= // //The name of database table connected with ODBC data source
ODBCColumns= // //The name of word segment connected with ODBC database table

After understanding the meaning of the ini document, we can carry on connect ODBC and Serv-U to realize the on-line registration of FTP according to this principle. The principle of registering is: the customer carries on registering through ASP page, while this customer's data are inserted into customer's form of database, after linking database with Serv-U, the data within customer's form will automatically renew in the INI document of Serv-U. Hence, on-line registering of FTP opens. At the same time, by ASP procedure, while the customer registers a FTP account number, automatically establish a document with the same name with the FTP account number, namely virtual host space. Then, the customer can upload the document to own virtual host by FTP account number, and the interview and share of resources are carried out.

III. CONCRETE REALIZATION

As shown in Fig.1, the realization steps of virtual host system are described as followings:

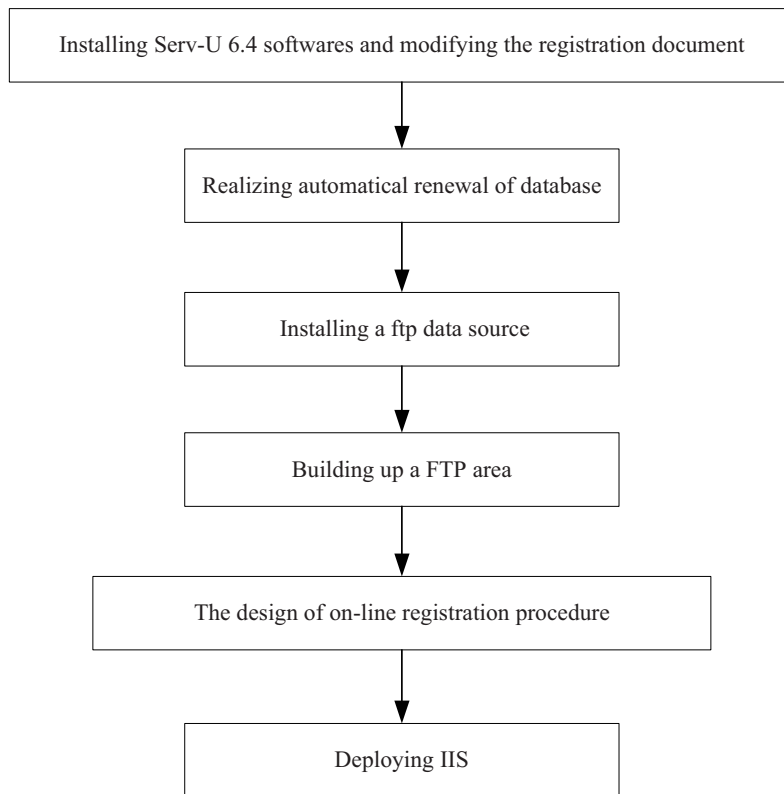


Figure 1. The realization steps of virtual host system

A. Installing Serv-U 6.4 Softwares and Modifying the Registration Document

We install Serv-U 6.4 software, then open the ServUDaemon.ini document inside and find out the three lines: OBCSource=|, ODBCTables=|, ODBCColumns=|3.

Three following lines are the word segment of FTP registration forms and forms in the database. The three lines: OBCSource=|, ODBCTables=|, ODBCColumns=|3 are replaced by three following lines:

“ODBCSource=ftp| ;

ODBCTables=user_accounts|group_accounts|user_access|group_access|user_IP_access|group_IP_access ;

ODBCColumns=user|password|key|homedir|access|disable|relpaths|||change|pass|quotaenable|||maxusers|||ratio|up|ratio|down|ratio|credit|quota|current|quota|max|expiration|privilege|passtype|ratio|type|groups|notes|indexno|ExpirationType|;”

B. Realizing Automatical Renewal of Database

Copy the sentence: ReloadSettings=True behind each[] node, such as[GLOGAL], [DOMAINS], [Domain 1], [Domain 2], etc. What the purpose is when the customer has the modification ftp password, Serv-U can automatically renew the database, which can avoid the problem that the above modification can't be of immediate effectiveness after changing the password.

C. Installing a Ftp Data Source

The installing method is more simple, mainly chooses the path of database, inputs data source name. This name of data source is: the ftp name of the line of ODBCSource=ftp|. The chosen path is assumed as: F:\ftp\data\ftp.mdb.

D. Building up a FTP Area

Start Serv-U and build up an area. If we are not on-line real-time opening to register and break through the FTP account number, “saving in .INI document” is chosen while establishing and adding "area type". Thus, the customer's account number can be established by the managing person, including the setting up of a FTP document and document authority. However, it is changed as “saving in ODBC database” now. As shown in Fig.3, the customer's account number can be renewed to pass the FTP account number which is registered by ASP procedure of customer's registration.

E. Design of On-line Registration Procedure

We carry out on-line registration by an ASP procedure, this ASP procedure can make the customer register by the way of the WEB browser. After finishing customer's registration, the document of the registered customers is produced in the root catalogue of FTP station point of

website server. This document is the virtual space of the registered customers.

After understanding this principle, we can design ASP procedure, the core procedure is as followings:

①The customer registers page reg.asp and inserts the data that the customer register to customer's form;

②The customer registers successful page "reg_success.asp";

③The customer registers and save the page "save_reg.asp", this is the key page, mainly complete the establishing of FTP account number and circumstance of space use. In this procedure, in order to complete the customer's registration, user's name and password after registering join the database of the ODBC data source F:\ftp\data\in the ftp.mdb.

The main procedure is shown as followings:

```

<!--#include file="md5.asp"-->
<!--#include file="config.asp" -->
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=gb2312">
<title><%=WebName%>-      submit      for
registration...-<%=title%></title>
<%
if request.form("username")="" then
response.write "error: please input the user's name!"
response.end
end if
if request.form("password")="" then
response.write "error: please input the password!"
response.end
end if
if
request.form("password")<>request.form("confirmpwd")
then
response.write "error: two password don't agree with!"
response.end
end if
if request.form("email")="" then
response.write "error: input your correct EMAIL!"
response.end
end if
username=Replace(request("username"), "", "")
rndstr =MyRandc(2)
asankpassword=request("password")
asanpassword=rndstr&md5(rndstr&asankpassword)
asanconfirmpwd=request("confirmpwd")
asanemail=request("email")
regip=request.ServerVariables("HTTP_X_FORWAR
DED_FOR")
if regip="" then regip=request.ServerVariables
("REMOTE_ADDR")
dim asanHomeDir,asanQuotaMax,qinExpiration //

```

Define lord catalogue, the biggest capacity and date

```

asanQuotaMax=1048576*QuotaMax
asanHomeDir=user_folder+username
asanAccess=user_folder+username+ServUAccess
if Expirationtime=true then
qinExpiration=date()+asanExpiration
else
qinExpiration="1980-1-1"
end if
set rs=server.createobject("adodb.recordset")
sql = "SELECT [User] FROM [User_accounts]
WHERE [User] = "&username&" or Email=
"&asanemail&"
rs.open sql,conn,1,1
if not rs.eof then
response.write "<script>alert('sorry,user's name or
Email has been used by others, please try another again');
history.back()</script>"
else
dim fso,ftp_folder
ftp_folder=user_folder&username
Set fso = CreateObject("Scripting.FileSystemObject")
if not fso.FolderExists(ftp_folder) then
fso.CreateFolder (ftp_folder)
conn.execute("INSERT INTO User_accounts
([User],[Access],[Password],HomeDir,QuotaEnable,Quota
Max, PassType,RegIp,Email,Expiration,Expirationtype)
VALUES
("&username&","&asanAccess&","&asanpassword&",
"&asanHomeDir&","&asanQuotaEnable&","&asanQuota
Max&","&asanPassType&","&regip&","&asanemail&","
&qinExpiration&","&asanExpirationtype&")") // Insert
the customer are register the data in database
response.redirect "reg_success.asp"
end if
rs.Close
Set rs = Nothing
%>
</body>
</html>

```

④Installing document config.asp by procedure is an important document, which mainly completes the database conjunction of ASP procedure, completes catalogue establishment of virtual space at the same time, and legal power constitution. The registration page, user's name and password of the registered customers by this backstage procedure are encrypted. At the same time, let customer know the IP address of FTP used to upload the document own after registering successfully. The customer can register and upload by this IP address. IP address of calculator of FTP space is provided if in local area network. Virtual host space is provided if in the male net.

F. Deploying IIS

The server needs to be built up after finishing FTP program design. At the same time, the server of virtual space needs to be built up.

The system is developed, and the testing results indicate that the system is effective.

IV. CONCLUSION

In the paper, the modification of the INI document and the ODBC conjunction of Serv-U are mainly introduced. This is the key step of the proposed system. Real-time registration of account number can't be carried on if there is no this key step. If there is no backstage procedure of ASP to handle, customer's virtual space can't be formed. The system is developed, and the testing results indicate that the system is effective.

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