

Защита лабораторной работы № 5

Расширенная настройка HTTP-сервера Apache

Администрирование сетевых подсистем

Работу Выполнил:
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Цель работы

Приобретение практических навыков по расширенному конфигурированию HTTP-сервера Apache в части безопасности и возможности использования РНР.

Конфигурирование HTTP-сервера для работы через протокол HTTPS

[illegible]

```
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [XX]:RU
State or Province Name (full name) []:Russia
Locality Name (eg, city) [Default City]:Moscow
Organization Name (eg, company) [Default Company Ltd]:saismael
Organizational Unit Name (eg, section) []:saismael
Common Name (eg, your name or your server's hostname) []:saismael.net
Email Address []:saismael@saismael.net
[root@server.saismael.net private]#
```

Конфигурирование HTTP-сервера для работы через протокол HTTPS

```
www.sais~net.conf  [----] 14 L:[ 3+20 23/ 24] *(777 / 789b) 0010 0x00A [*][X]
DocumentRoot /var/www/html/www.saismael.net
ServerName www.saismael.net
ServerAlias www.saismael.net
ErrorLog logs/www.saismael.net-error_log
CustomLog logs/www.saismael.net-access_log common
RewriteEngine on
RewriteRule ^(.*)$ https://%{HTTP_HOST}$1 [R=301,L]
</VirtualHost>

<IfModule mod_ssl.c>
<VirtualHost *:443>
    SSLEngine on
    ServerAdmin webmaster@saismael.net
    DocumentRoot /var/www/html/www.saismael.net
    ServerName www.saismael.net
    ServerAlias www.saismael.net
    Errorlog logs/www.saismael.net-error_log
    CustomLog logs/www.saismael.net-access_log common
    SSLCertificateFile /etc/ssl/private/www.saismael.net.crt
    SSLCertificateKeyFile /etc/ssl/private/www.saismael.net.key
</VirtualHost>
</IfModule>
1Help 2Save 3Mark 4Replac 5Copy 6Move 7Search 8Delete 9PullDn 10Quit
```


Конфигурирование HTTP-сервера для работы через протокол HTTPS

```
[root@server.saismael.net private]#  
[root@server.saismael.net private]# cd /etc/httpd/conf.d  
[root@server.saismael.net conf.d]#  
[root@server.saismael.net conf.d]# firewall-cmd --list-services  
cockpit dhcp dhcpv6-client dns http ssh  
[root@server.saismael.net conf.d]# firewall-cmd --get-services  
RH-Satellite-6 RH-Satellite-6-capsule amanda-client amanda-k5-client amqp amqps  
apcupsd audit bacula bacula-client bb bgp bitcoin bitcoin-rpc bitcoin-testnet bi  
tcoin-testnet-rpc bittorrent-lsd ceph ceph-mon cfengine cockpit collectd condor-  
collector ctdb dhcp dhcpv6 dhcpv6-client distcc dns dns-over-tls docker-registry  
docker-swarm dropbox-lansync elasticsearch etcd-client etcd-server finger forem  
an foreman-proxy freeipa-4 freeipa-ldap freeipa-ldaps freeipa-replication freeip  
a-trust ftp galera ganglia-client ganglia-master git grafana gre high-availabili  
ty http https imap imaps ipp ipp-client ipsec irc ircs iscsi-target isns jenkins  
kadmin kdeconnect kerberos kibana klogin kpasswd kprop kshell kube-api kube-api  
server kube-control-plane kube-controller-manager kube-scheduler kubelet-worker  
ldap ldaps libvirt libvirt-tls lightning-network llmnr managesieve matrix mdns m  
emcache minidlna mongodb mosh mountd mqtt mqtt-tls ms-wbt mssql murmur mysql nbd  
netbios-ns nfs nfs3 nmea-0183 nrpe ntp nut openvpn ovirt-imageio ovirt-storagec  
onsole ovirt-vmconsole plex pmcd pmproxy pmwebapi pmwebapis pop3 pop3s postgresq  
l privoxy prometheus proxy-dhcp ptp pulseaudio puppetmaster quassel radius rdp r  
edis redis-sentinel rpc-bind rquotad rsh rsyncd rtsp salt-master samba samba-cli  
ent samba-dc sane sip sips slp smtp smtp-submission smtps snmp snmptrap spideroa  
..  
[root@server.saismael.net conf.d]# firewall-cmd --add-service=https  
success
```

```
[root@server.saismael.net conf.d]# firewall-cmd --add-service=https --permanent  
success  
[root@server.saismael.net conf.d]# firewall-cmd --reload  
success  
[root@server.saismael.net conf.d]#
```

Внесение изменений в настройки внутреннего окружения виртуальной машины

```
http.sh [----] 22 L:[ 1+ 4 5/ 23] *(66 / 514b) 0097 0x061 [*][X]
#!/bin/bash

echo "Provisioning script $0"

echo "Install needed packages"
dnf -y groupinstall "Basic Web Server"

echo "Copy configuration files"
cp -R /vagrant/provision/server/http/etc/httpd/* /etc/httpd
cp -R /vagrant/provision/server/http/var/www/* /var/www

chown -R apache:apache /var/www

restorecon -vR /etc
restorecon -vR /var/www

echo "Configure firewall"
firewall-cmd --add-service=http
firewall-cmd --add-service=http --permanent

echo "Start http service"
1Help 2Save 3Mark 4Replac 5Copy 6Move 7Search 8Delete 9PullDn10Quit
```

Приобрел практические навыки по расширенному конфигурированию HTTP сервера Apache в части безопасности и возможности использования PHP.