

SAMBA 4.7.1 – ACTIVE DIRECTORY CONFIGURATION

Please find the samba 4.7.1 configuration steps at below

Server : Cent OS 7

Client : Windows 10

Step 1:-

Configure the network and system name in your Linux system.

Step 2:-

Adjust or turn off your firewall settings.

Step 3:-

Download the latest source file from www.samba.org.

Step 4:-

Extract the source file and open the extracted folder through command mode.

Step 5:-

Install all pre-requisites packages at below

```
yum install attr docbook-style-xsl gcc gdb krb5-workstation libsemanage-python libxslt perl  
perl-ExtUtils-MakeMaker perl-Parse-Yapp perl-Test-Base pkgconfig policycoreutils-python  
python-crypto gnutls-devel libattr-devel keyutils-libs-devel libacl-devel libaio-devel libblkid-  
devel libxml2-devel openldap-devel pam-devel popt-devel python-devel readline-devel zlib-  
devel systemd-devel bind* -y
```

Step 6:-

Run below commands

1. `“./configure --enable-selftest ”`
2. `“ make && make install ”`

Step 7:-

Remove Kerberos configuration file

```
“ rm -rf /etc/krb5.conf ”
```

Step 8:-

Now we are going to activate our AD domain controller

```
"/usr/local/samba/bin/samba-tool domain provision --realm=example.com --domain=EXAMPLE  
--adminpass '@example123' --server-role=dc --dns-backend=BIND9_DLZ "
```

Step 9:-

Create a DNS key

```
" rndc-confgen -a -r /dev/urandom "
```

Step 10:-

Now we are going to configure DNS. Please copy or edit below like configuration.

```
options {  
    listen-on port 53 { IP Address }; };  
    listen-on-v6 port 53 { ::1; };  
    directory "/var/named";  
    dump-file "/var/named/data/cache_dump.db";  
    statistics-file "/var/named/data/named_stats.txt";  
    memstatistics-file "/var/named/data/named_mem_stats.txt";  
    allow-query { any; };  
    tkey-gssapi-keytab "/usr/local/samba/private/dns.keytab";  
};  
include "/usr/local/samba/private/named.conf";  
  
/* Path to ISC DLV key */  
  
logging {  
    channel default_debug {  
        file "data/named.run";  
        severity dynamic;  
    };  
};  
  
zone "." IN {  
    type hint;  
    file "named.ca";  
};
```

Step 11:-

Now copy the Kerberos configuration file from samba configuration folder.

```
"cp /usr/local/samba/private/krb5.conf /etc/krb5.conf"
```

Step 14 :-

Please change the permissions for the DNS working folders.

```
chown named:named /usr/local/samba/private/dns
chown named:named /usr/local/samba/private/dns.keytab
chmod 775 /usr/local/samba/private/dns "
```

Step 15:-

Create new service file "/etc/systemd/system/samba-ad-dc.service " and paste below content.

```
[Unit]
Description=Samba Active Directory Domain Controller
After=network.target remote-fs.target nss-lookup.target
```

```
[Service]
Type=forking
ExecStart=/usr/local/samba/sbin/samba -D
PIDFile=/usr/local/samba/var/run/samba.pid
ExecReload=/bin/kill -HUP $MAINPID
```

```
[Install]
WantedBy=multi-user.target
```

Step 16 :-

Now reload the systemd configuration and start the DNS and Samba4 service.

```
systemctl daemon-reload
systemctl enable samba-ad-dc
systemctl start samba-ad-dc
```

Step 17:-

Now go to windows client and add the host to samba AD and enjoy the AD service.

For more information, please visit " samba.wiki.org "