

## Assignments:09

### Module:- COSA(SAMBA- Add user permission)

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Lab Assignment :-

1. Install Samba Server on linux system that allow user authentication with following details:

Share path: /home/ditiss

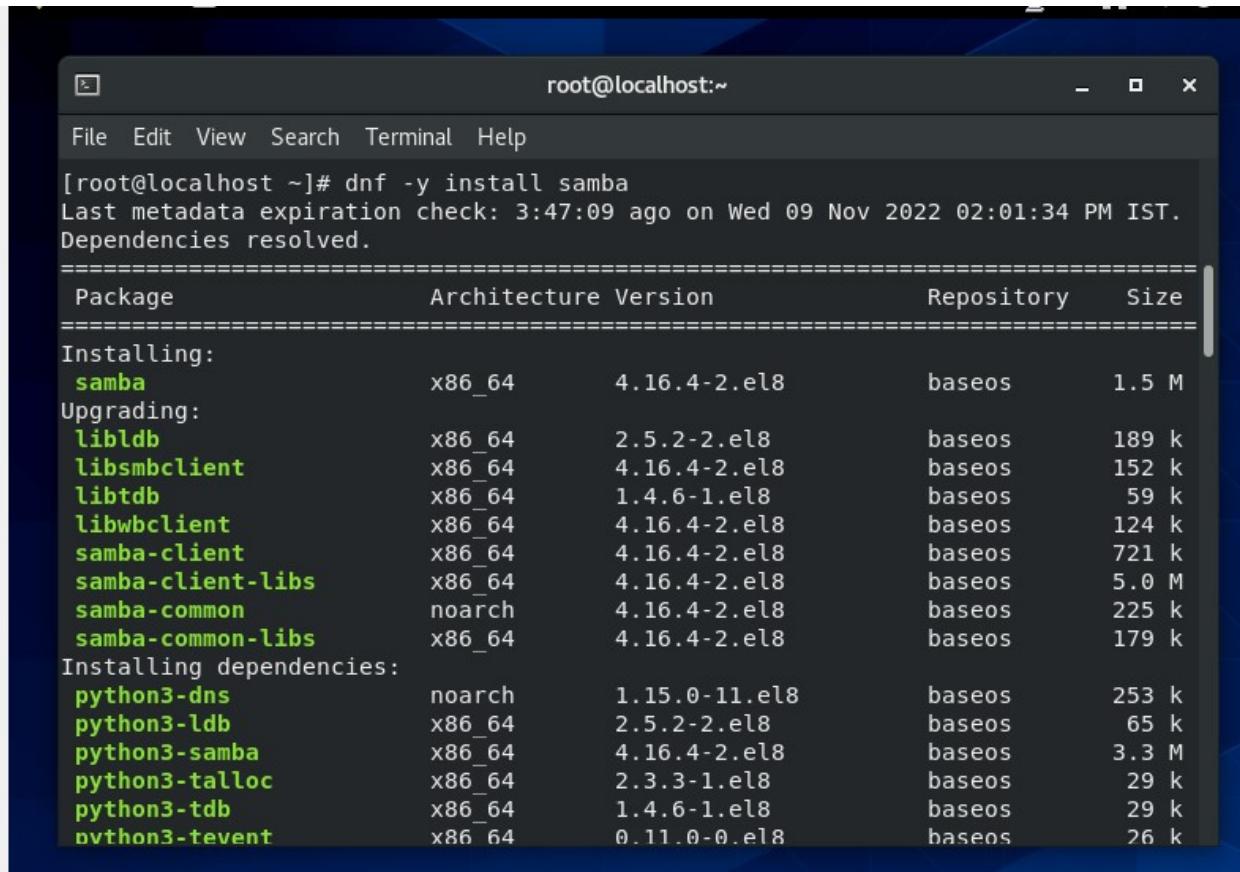
Group Name: cdac

UserName: cdacuser

Samba password: 123456

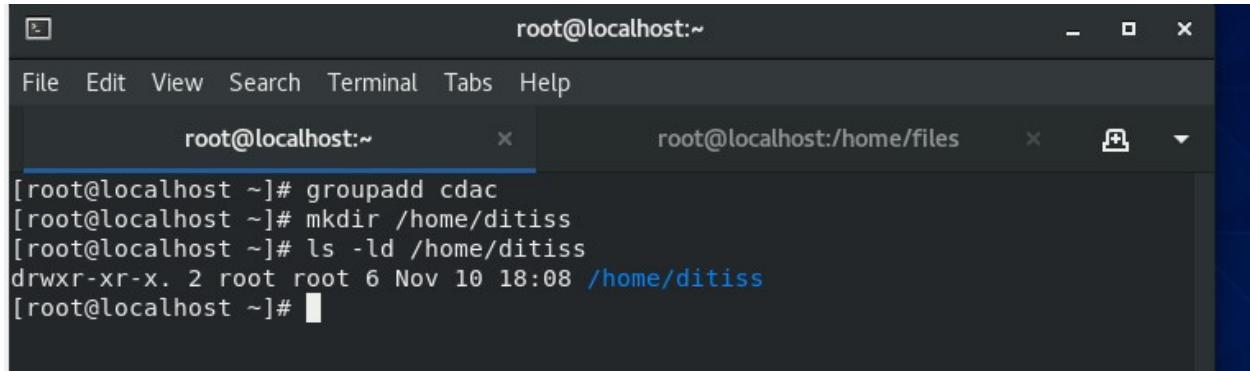
Step-1:- Install SAMBA server

Cmd:- # dnf -y install samba



```
[root@localhost ~]# dnf -y install samba
Last metadata expiration check: 3:47:09 ago on Wed 09 Nov 2022 02:01:34 PM IST.
Dependencies resolved.
=====
Package           Architecture Version      Repository  Size
=====
Installing:
  samba          x86_64       4.16.4-2.el8   baseos     1.5 M
Upgrading:
  libldb         x86_64       2.5.2-2.el8    baseos     189 k
  libsmbclient   x86_64       4.16.4-2.el8   baseos     152 k
  libtdb          x86_64       1.4.6-1.el8    baseos      59 k
  libwbclient    x86_64       4.16.4-2.el8   baseos     124 k
  samba-client   x86_64       4.16.4-2.el8   baseos     721 k
  samba-client-libs x86_64       4.16.4-2.el8   baseos     5.0 M
  samba-common   noarch      4.16.4-2.el8   baseos     225 k
  samba-common-libs x86_64       4.16.4-2.el8   baseos     179 k
Installing dependencies:
  python3-dns    noarch      1.15.0-11.el8  baseos     253 k
  python3-ldb    x86_64       2.5.2-2.el8    baseos      65 k
  python3-samba  x86_64       4.16.4-2.el8   baseos     3.3 M
  python3-talloc  x86_64       2.3.3-1.el8    baseos      29 k
  python3-tdb    x86_64       1.4.6-1.el8    baseos      29 k
  python3-tevent x86_64       0.11.0-0.el8   baseos      26 k
```

## Step-2:- create share folder and group cdac



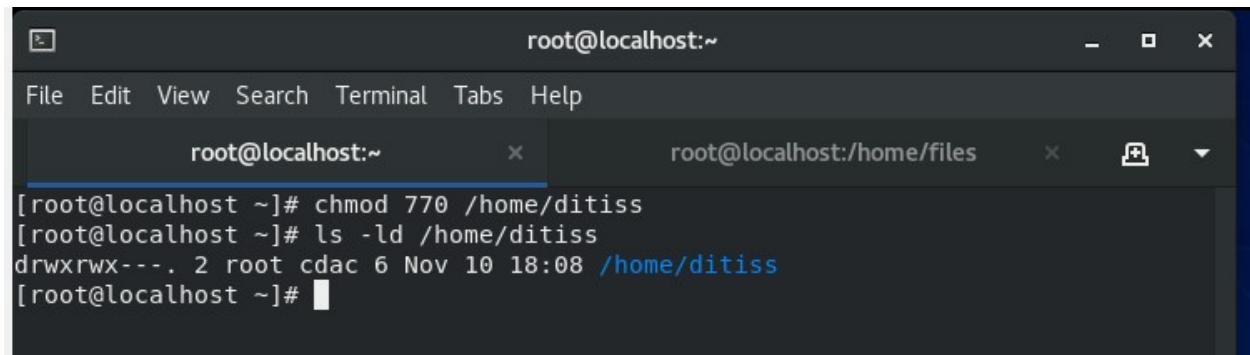
```
[root@localhost ~]# groupadd cdac
[root@localhost ~]# mkdir /home/ditiss
[root@localhost ~]# ls -ld /home/ditiss
drwxr-xr-x. 2 root root 6 Nov 10 18:08 /home/ditiss
[root@localhost ~]#
```

## Step-3:- change the group owner



```
[root@localhost ~]# chgrp cdac /home/ditiss
[root@localhost ~]# ls -ld /home/ditiss
drwxr-xr-x. 2 root cdac 6 Nov 10 18:08 /home/ditiss
[root@localhost ~]#
```

## Step -4 :- change the permission



```
[root@localhost ~]# chmod 770 /home/ditiss
[root@localhost ~]# ls -ld /home/ditiss
drwxrwx---. 2 root cdac 6 Nov 10 18:08 /home/ditiss
[root@localhost ~]#
```

## Step- 5:- Configure SAMBA

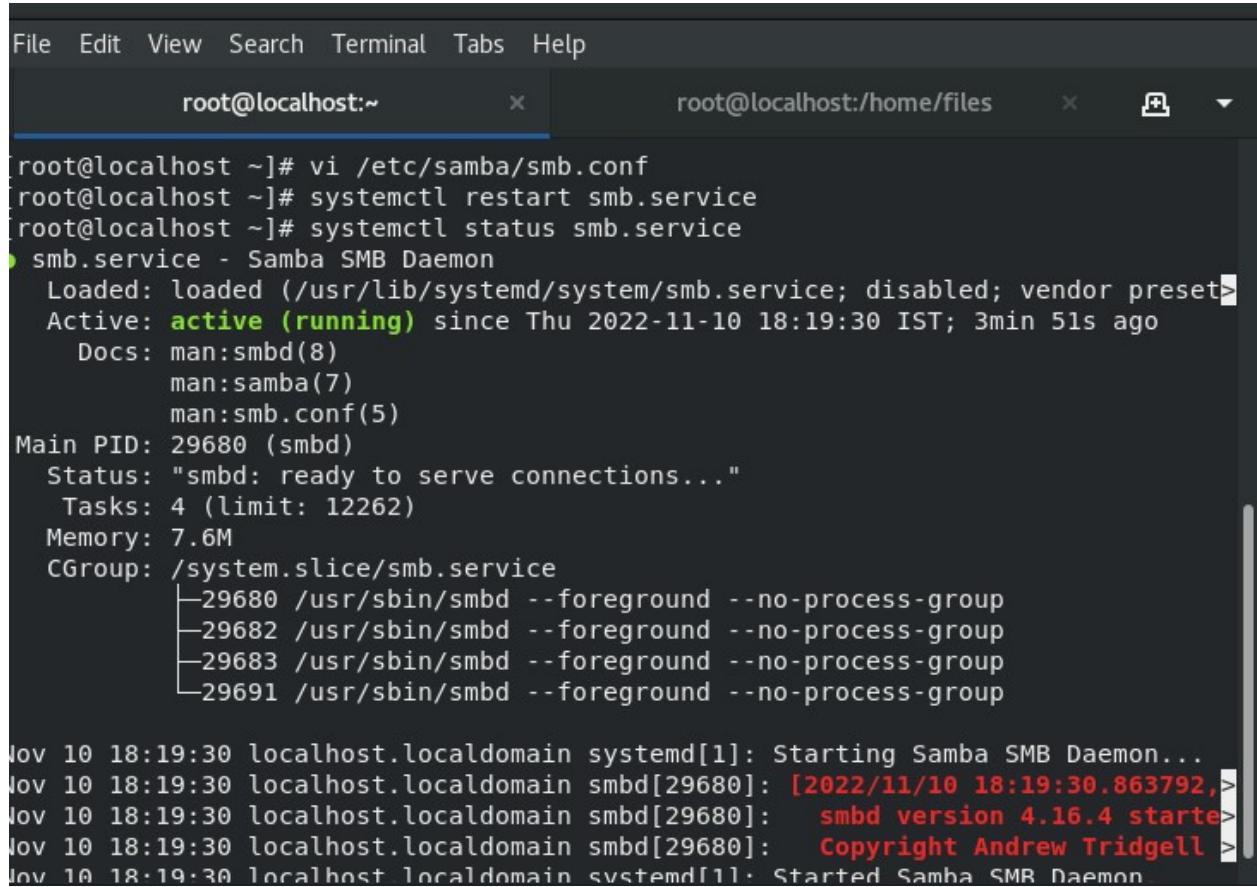
#vi /etc/samba/smb.conf



```
[root@localhost ~]# vi /etc/samba/smb.conf
[root@localhost ~]#
```

```
        inherit permissions = yes
[ditiss]
    comment = Authentication based access
    path = /home/ditiss
    writable = yes
    guest ok = no
    valid users = @cdac
    force group = cdac
    force create mode = 770
    force directory mode =770
    inherit permissions = yes
-- INSERT --
```

## Step-6:- restart samba service



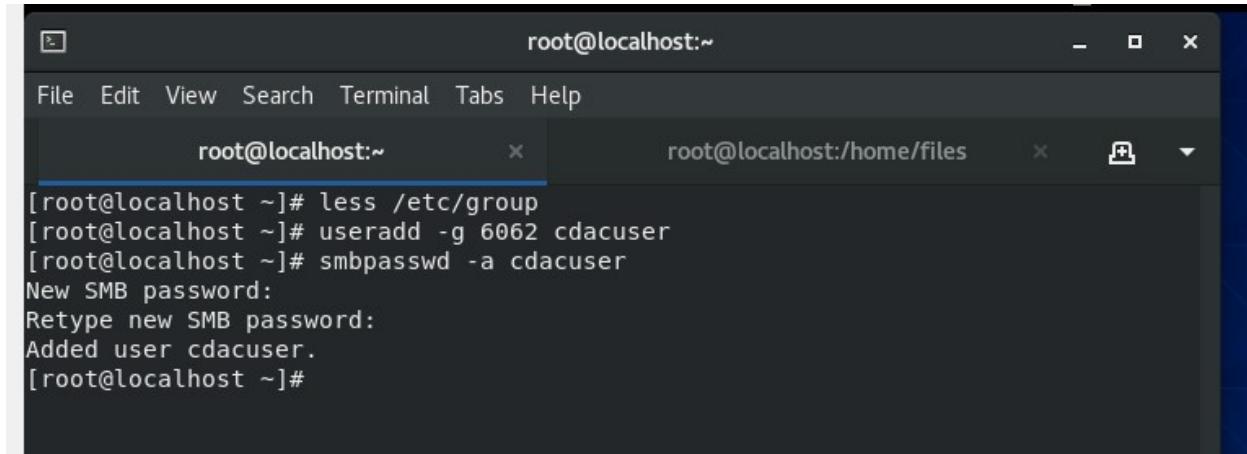
The screenshot shows a terminal window with two tabs. The left tab is titled 'root@localhost:~' and the right tab is titled 'root@localhost:/home/files'. The terminal content is as follows:

```
root@localhost ~]# vi /etc/samba/smb.conf
root@localhost ~]# systemctl restart smb.service
root@localhost ~]# systemctl status smb.service
● smb.service - Samba SMB Daemon
   Loaded: loaded (/usr/lib/systemd/system/smb.service; disabled; vendor preset: enabled)
   Active: active (running) since Thu 2022-11-10 18:19:30 IST; 3min 51s ago
     Docs: man:smbd(8)
           man:samba(7)
           man:smb.conf(5)
 Main PID: 29680 (smbd)
   Status: "smbd: ready to serve connections..."
      Tasks: 4 (limit: 12262)
     Memory: 7.6M
    CGroup: /system.slice/smb.service
            └─29680 /usr/sbin/smbd --foreground --no-process-group
                  ├─29682 /usr/sbin/smbd --foreground --no-process-group
                  ├─29683 /usr/sbin/smbd --foreground --no-process-group
                  └─29691 /usr/sbin/smbd --foreground --no-process-group

Nov 10 18:19:30 localhost.localdomain systemd[1]: Starting Samba SMB Daemon...
Nov 10 18:19:30 localhost.localdomain smbd[29680]: [2022/11/10 18:19:30.863792, 0x559f34000000] smbd version 4.16.4 started
Nov 10 18:19:30 localhost.localdomain smbd[29680]: Copyright Andrew Tridgell 2022
Nov 10 18:19:30 localhost.localdomain systemd[1]: Started Samba SMB Daemon.
```

## Step-7:- add user

```
ditiss:x:6060:  
ditiss1:x:6061:  
named:x:25:  
cdac:x:6062:  
(END)
```



A screenshot of a terminal window titled "root@localhost:~". The window has two tabs: "root@localhost:~" and "root@localhost:/home/files". The main pane displays the following command-line session:

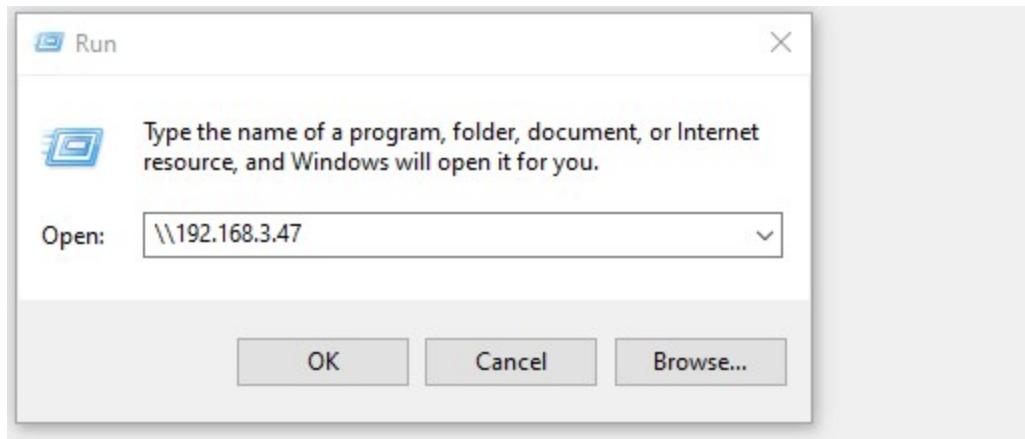
```
[root@localhost ~]# less /etc/group  
[root@localhost ~]# useradd -g 6062 cdacuser  
[root@localhost ~]# smbpasswd -a cdacuser  
New SMB password:  
Retype new SMB password:  
Added user cdacuser.  
[root@localhost ~]#
```

### Step-8:- stop firewall and disable setenforce

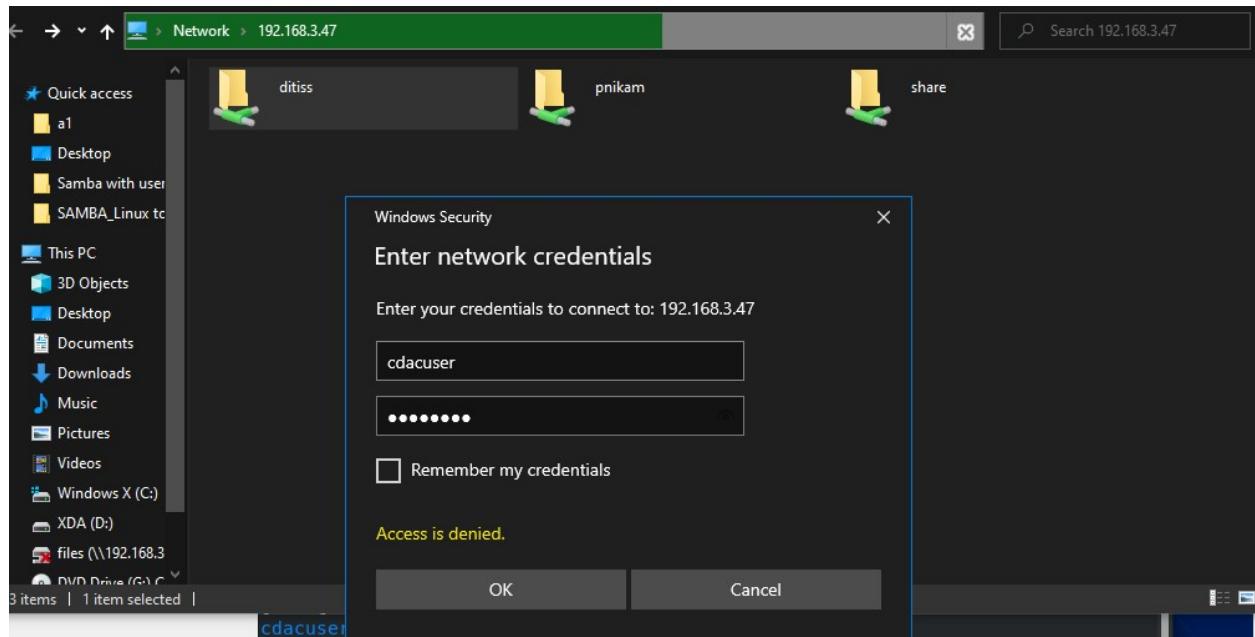
```
[root@localhost home]# systemctl stop firewalld  
[root@localhost home]# iptables -F  
[root@localhost home]# setenforce 0  
[root@localhost home]#
```

### Client:-

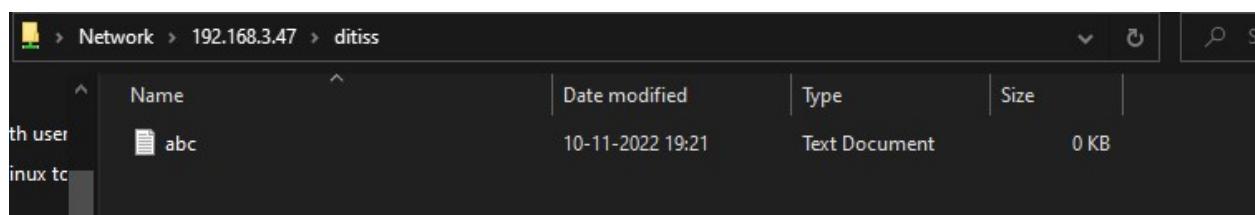
#### Step-1:- go to windows and run the “RUN” on windows start.and put Linux System ip address



## Step -2:- opening the new window .enter password and username

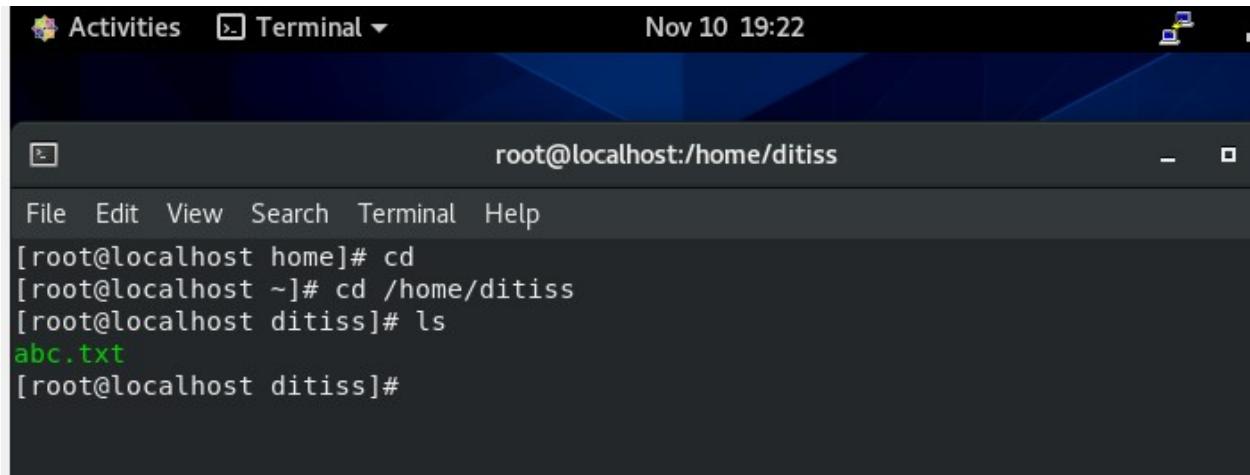


## Share any file one folder open and create new text file



## SERVER:-

### Step-1:- check server side file location



A screenshot of a Linux terminal window titled "Terminal". The window shows a command-line interface with the following session:

```
root@localhost:/home/ditiss
File Edit View Search Terminal Help
[root@localhost home]# cd
[root@localhost ~]# cd /home/ditiss
[root@localhost ditiss]# ls
abc.txt
[root@localhost ditiss]#
```

The terminal is running as root, indicated by the "root" prompt. The user navigates to the "/home/ditiss" directory and lists its contents, which includes a file named "abc.txt".