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# Setup Used

* VM Hosting the Shared Drive: Ubuntu 20.04.3 LTS
* Linux Velocity Agents Mounting the Shared Drive: Ubuntu 20.04.3 LTS
* Windows Velocity Agents Mounting the Shared Drive: Any Windows Version

# Configuring Shared Drive (VM Hosting the Drive)

## Creating the Directory

Location HOME

Created a 10GB file - this will be the maximum allowed size of our Shared Directory

cd ~/

dd if=/dev/zero of=AIRTELLOGSDIR bs=1024 count=2M

Format the ~/AIRTELLOGSDIR file - I used ext4

sudo mkfs.ext4 filename

Mount the file to a mounting point (see last line from output below)

netbox-admin@netbox-vm:~$ cat /etc/fstab

# /etc/fstab: static file system information.

.... some more lines here that I omitted ....

/home/netbox-admin/AIRTELLOGSDIR /mnt/AIRTELLOGSDIR ext4 defaults,users

netbox-admin@netbox-vm:~$ sudo mount -a

## Install Samba

Update apt packages

sudo apt update

Install samba

sudo apt install samba

smbd --version

## Configure Samba service and Users

Samba Configuration file

cat /etc/samba/smb.conf

.... some more lines here that I omitted ....

[airtellogs]

comment= Airtel Logging Shared Folder

path = /mnt/AIRTELLOGSDIR

force user = smbuser

force group = smbgroup

create mask = 0775

force create mode = 0775

directory mask = 0775

force directory mode = 0775

public = yes

read only = no

guest ok = no

Samba User and Group:

sudo groupadd --system smbgroup

sudo useradd --system --no-create-home --group smbgroup -s /bin/false smbuser

Samba User Password

sudo smbpasswd -a smbuser

<< Used password Airtel@123

Changing the Shared Folder Owner

sudo chown -R smbuser:smbgroup /mnt/AIRTELLOGSDIR

sudo chmod -R g+w /mnt/AIRTELLOGSDIR

## Manage Samba Service

Restart the Samba Service

sudo systemctl restart smbd

Check Status for the Samba Service

sudo systemctl status smbd

# Configuring Velocity Ubuntu Agents (VM mounting the Drive)

## Allow Internet Connection

Make sure that the agent can access the interned in order to update and download packages.

This is a requirement in order to allow to download cifs-utils.

## Manual Backup (Recommended)

Back up the file /etc/fstab to a safe location

Example:

ub-agent@ub-agent1-instance:~$ sudo cp /etc/fstab ~/BACKUP\_ORIGINAL\_fstab

The script creates a backup for /etc/fstab at each run and tries to reapply the file whenever a failure is identified.

However, it is recommended to manually back up this file in order to avoid any accident.

## Create .creds file in USER home folder holding SMB credentials

ub-agent@ub-agent1-instance:~$ pwd

/home/ub-agent

ub-agent@ub-agent1-instance:~$ cat .creds

username=smbuser

password=Airtel@123

## Copy and Run deploy\_log\_infrastructure.sh script

sudo ./deploy\_log\_infrastructure.sh $USER

Look for Success at the end of the output.

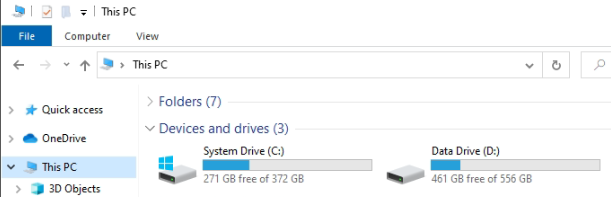
If any error occurs, take actions based on the ERROR messages signaled in the output.

# Configuring Velocity Windows Agents (VM mounting the Drive)

## Open File Explorer - This PC

Open File Explorer

Navigate to This PC



## Map Network Drive

Open Menu > Computer > Map Network Drive

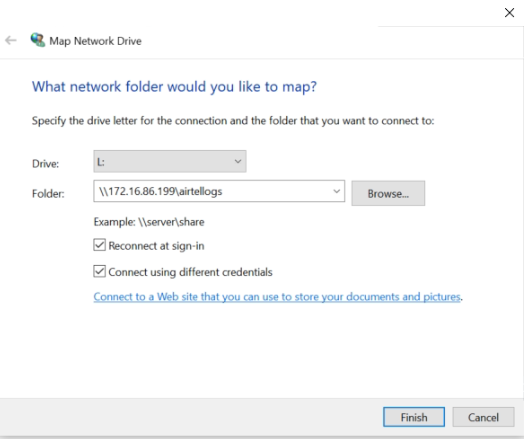
Select the Drive Letter: <example: L:>

Add the Shared location in the Folder field: [\\172.16.86.199\airtellogs](file:///\\172.16.86.199\airtellogs)

Check Reconnect at sign-in checkbox

Check Connect using different credentials checkbox

Click on Finish



## Provide SMB Credentials

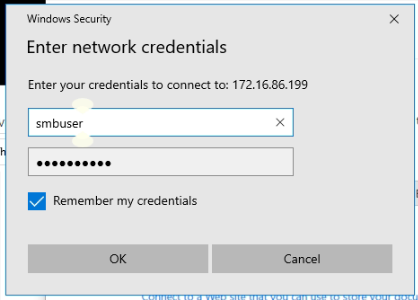
Enter SMB Username: smbuser

Enter SMB Password: Airtel@123

Optionally: Check Remember my credentials checkbox

Confirm the Authentication window

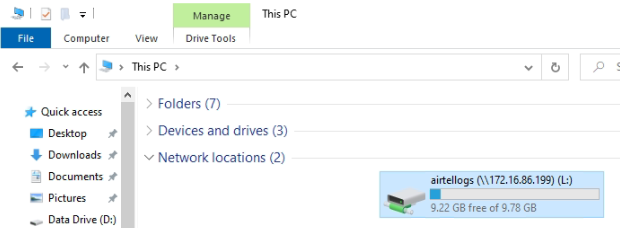
The Shared location will open automatically if the SMB credentials were correct



## Check that the Drive is Mounted under the Drive Letter

Open File Explorer

Navigate to This PC – Check the Network Locations tab



# deploy\_log\_infrastructure.sh – code

#!/bin/sh

# GET USER ID

\_user=${1}

if [ ${\_user} = ""]; then

echo "ERROR - YOU DID NOT PROVIDE THE USER ARGUMENT. EXITING"

echo "FAILURE!"

exit 0

fi

\_user\_id=$(id -u ${1})

if [ $? -eq 0 ]; then

echo "INFO - WORKING WITH USER ${1} and ID ${\_user\_id}"

else

echo "ERROR - COULD NOT GET USER ${1} ID. EXITING"

echo "FAILURE!"

exit 0

fi

# VERIFY .creds FILE PREREQUISITE

if [ -f "/home/${\_user}/.creds" ]; then

echo "INFO - /home/${\_user}/.creds exists"

else

echo "ERROR - /home/${\_user}/.creds is missing. Please create the file"

echo "FAILURE!"

exit 0

fi

# GET LATEST PACKAGES LIST

apt-get update

if [ $? -eq 0 ]; then

echo "OK - updated apt-get data"

else

echo "ERROR - failed to update apt-get data"

fi

# INSTALL CIFS-UTILS

apt-get install cifs-utils -y

if [ $? -eq 0 ]; then

echo "OK - installed cifs-utils"

else

echo "ERROR - failed to install cifs-utils via apt-get. EXITING"

echo "FAILURE!"

exit 0

fi

# CREATE DIRECTORY TO MOUNT TO

if [ -d "/mnt/AIRTELLOGSDIR" ]; then

echo "INFO - /mnt/AIRTELLOGSDIR exists"

else

mkdir /mnt/AIRTELLOGSDIR

if [ $? -eq 0 ]; then

echo "OK - /mnt/AIRTELLOGSDIR was created now"

else

echo "ERROR - /mnt/AIRTELLOGSDIR could not be created. EXITING"

echo "FAILURE!"

exit 0

fi

fi

# CREATE BACKUP FOR FSTAB

cp /etc/fstab /home/${\_user}/fstab

if [ $? -eq 0 ]; then

echo "OK - BACKUP created for /etc/fstab in /home/${\_user}/fstab"

else

echo "ERROR - BACKUP for /etc/fstab could not be created. EXITING"

echo "FAILURE!"

exit 0

fi

# ADD MOUNT LINE IN FSTAB IF NEEDED

if grep -q "//172.16.86.199/airtellogs" /etc/fstab; then

echo "INFO - AIRTELLOGS is already in /etc/fstab"

umount /mnt/AIRTELLOGSDIR

if [ $? -eq 0 ]; then

echo "OK - Unmounted /mnt/AIRTELLOGSDIR"

else

echo "WARNING - Failed to Unmount /mnt/AIRTELLOGSDIR. Maybe there is nothing to Unmount"

fi

else

echo "//172.16.86.199/airtellogs /mnt/AIRTELLOGSDIR cifs credentials=/home/${\_user}/.creds,uid=${\_user\_id},file\_mode=0777,dir\_mode=0777,noperm 0 0" >> /etc/fstab

if [ $? -eq 0 ]; then

echo "OK - AIRTELLOGS SHARE was added to /etc/fstab"

else

echo "ERROR - /mnt/AIRTELLOGSDIR could not be added to /etc/fstab"

echo "INFO - Applying backup FSTAB to /etc/fstab"

cp /home/${\_user}/fstab /etc/fstab

if [ $? -eq 0 ]; then

echo "OK - BACKUP applied to /etc/fstab from /home/${\_user}/fstab. EXITING"

else

echo "ERROR - BACKUP for /etc/fstab could NOT be APPLIED. EXITING"

fi

echo "FAILURE!"

exit 0

fi

fi

# MOUNT

mount -a

if [ $? -eq 0 ]; then

echo "OK - ALL drives were mounted"

echo "SUCCESS!"

else

echo "ERROR - MOUNT FAILED"

echo "FAILURE!"

fi