## **SAMBA Server**

**Samba is a suite of applications that implements the Server Message Block (SMB) Protocol. Many operating systems like Microsoft Windows, use the SMB protocol for Client - Server Networking. Samba enables the Linux / Unix Machine to communicate with Windows machines in a network.**

**Samba is an open source and free Software. Samba was developed in 1991 for fast and secure file and print share for all clients using SMB port.**

### **#Installing SAMBA**

**sudo apt update**

**sudo apt install samba**

### **#We can check if the installation was successful by running**

**whereis samba**

### **#The following should be its output**

**samba: /usr/sbin/samba /usr/lib/samba /etc/samba /usr/share/samba /usr/share/man/man7/samba.7.gz /usr/share/man/man8/samba.8.gz**

### **#Setting up Samba**

**The command above creates a new folder sambashare in our home directory which we will share later**

**mkdir /home/<username>/sambashare/**

**The configuration file for Samba is located at /etc/samba/smb.conf. To add the new directory as a share, we edit the file by running**

**sudo nano /etc/samba/smb.conf**

**At the bottom of the file, add the following lines**

**[sambashare]**

**comment = Samba on Ubuntu**

**path = /home/username/sambashare**

**read only = no**

**browsable = yes**

**Now that we have our new share configured, save it and restart Samba for it to take effect:**

**sudo service smbd restart**

**Update the firewall rules to allow Samba traffic**

**sudo ufw allow samba**

### **If Above command throws any error about firewall configuration do this**

**Fix: install the samba package... or manually create the file:**

**sudoedit /etc/ufw/applications.d/samba**

**[Samba]**

**title=LanManager-like file and printer server for Unix**

**description=The Samba software suite is a collection of programs that implements the SMB/CIF$**

**ports=137,138/udp|139,445/tcp**

### **Setting up User Accounts and Connecting to Share**

**Since Samba doesn’t use the system account password, we need to set up a Samba password for our user account**

**sudo smbpasswd -a username**

**smb://ip-address/sambashare {for linux ubuntu and MAC}**

**\\ip-address\sambashare {for Windows}**

**Start and Stop**

**sudo systemctl start|stop|restart smbd|nmbd**

### **For Anonymous User Login**

**Allowing to firewall**

**sudo ufw allow 137:138/udp**

**sudo ufw allow 139,445/tcp**

**sudo ufw enable**

**Edit /etc/samba/smb.conf file**

**[sambashare]**

**comment = Samba on Ubuntu**

**path = /home/cedcoss/share**

**read only = no**

**browsable = yes**

**interfaces = 127.0.0.0/8 enp2s0**

**bind interfaces only = yes**

**server role = standalone server**

**[EveryOneReadWrite]**

**path = /home/cedcoss/share/readwrite**

**comment = Everyone Full Access**

**browseable = yes**

**writable = yes**

**guest ok = yes**

**guest only = yes**

**read only = no**

**create mode = 0755**

**directory mode = 0755**

**force user = nobody**

**[EveryOneReadOnly]**

**path = /home/cedcoss/share/readonly**

**comment = Everyone Read Only**

**writable = yes**

**guest ok = yes**

**read only = yes**

**Save and restart nmbd | smbd**