To configure a common file sharing of the /opt/tomcat/webapps directory using Samba on a server with IP 10.248.0.92, and to allow access from the clients with IPs 10.248.0.90 and 10.248.0.91, follow the steps below. We will assume Samba is already installed on the Ubuntu 22.04 server.

**Step 1: Install Samba (if not already installed)**

bash

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sudo apt update

sudo apt install samba

**Step 2: Backup the Samba configuration file**

Before making any changes, it's good to backup the original Samba configuration file:

bash

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sudo cp /etc/samba/smb.conf /etc/samba/smb.conf.bak

**Step 3: Configure the Samba Share**

1. Open the Samba configuration file in a text editor:

bash

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sudo nano /etc/samba/smb.conf

1. Add the following configuration at the bottom of the file:

ini

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[TomcatWebapps]

comment = Tomcat Webapps Directory

path = /opt/tomcat/webapps

valid users = @tomcatusers

read only = no

browsable = yes

writable = yes

create mask = 0775

directory mask = 0775

hosts allow = 10.248.0.90 10.248.0.91

**Explanation:**

* + comment: Description of the share.
  + path: Directory to share (/opt/tomcat/webapps).
  + valid users: Restricts access to users in the tomcatusers group.
  + read only: Allows read and write access (no).
  + create mask and directory mask: Set file and directory permissions.
  + hosts allow: Limits access to the specified IPs (10.248.0.90 and 10.248.0.91).

**Step 4: Create a User Group and Set Permissions**

1. Create a user group for Tomcat users:

bash

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sudo groupadd tomcatusers

1. Add users to the tomcatusers group (replace username with actual usernames):

bash

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sudo usermod -aG tomcatusers username

1. Set the ownership and permissions of the /opt/tomcat/webapps directory:

bash

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sudo chown -R root:tomcatusers /opt/tomcat/webapps

sudo chmod -R 0775 /opt/tomcat/webapps

**Step 5: Create Samba Users**

To allow Samba access, create Samba users for the Linux users that need access:

bash

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sudo smbpasswd -a username

Repeat this step for each user.

**Step 6: Restart Samba Services**

After configuring the Samba share, restart the Samba services to apply the changes:

bash

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sudo systemctl restart smbd nmbd

**Step 7: Access the Share from Clients**

On the client machines (10.248.0.90 and 10.248.0.91), access the Samba share using:

bash

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smbclient //10.248.0.92/TomcatWebapps -U username

Or you can mount the Samba share on a directory:

bash

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sudo mount -t cifs //10.248.0.92/TomcatWebapps /mnt/tomcatwebapps -o username=username,password=your\_password

Now, the /opt/tomcat/webapps directory on the server with IP 10.248.0.92 is shared and accessible by the specified clients.