

前言

一般在企业的局域网内，是不连接外网的，所以像阿里云这样的在线的镜像源就用不了，我相信大家个人在虚拟机里面连的就是阿里云镜像源了，而且局域网内服务器较多的话，本地挂载镜像源再来更新其实就不太方便了，这样搭建局域网镜像源就非常适合这样的场景使用了，据我所知，有一些公司确实就是这么干的，好了废话就不说了，开干,本次部署镜像源的linux环境是centos8.5!!!

1. 安装httpd网页服务器

安装apache的web服务器执行以下命令安装

```
yum install -y httpd
```

或者是直接在Apache官网下载离线安装包安装也可

安装好Apache后查看/var这个目录

```
cd /var/www/html
```

```
pwd
```

会看到/var/www/html/这个子文件夹，我们的镜像就放在这个下面，先创建个linux

```
mkdir linux
```

接下来我们在linux目录下创建这些目录：redhat7,redhat8,redhat9,suse12,suse15,suse15sp4

```
mkdir redhat7 redhat8 redhat9 suse12 suse15 suse15sp4
```

然后就在各自的文件下存放各自对应版本的镜像就行了

[httpd下载地址](#)

← → ↻	⚠ 不安全 archive.apache.org/dist/httpd/		
应用	已导入	百度一下, 你就知道	git-for-windows... 文档 - OneDrive jamysong主页
	httpd-2.4.35.tar.bz2.asc	2018-09-21 12:37	473
	httpd-2.4.35.tar.bz2.sha256	2018-09-21 12:37	87
	httpd-2.4.35.tar.gz	2018-09-21 12:37	8.7M
	httpd-2.4.35.tar.gz.asc	2018-09-21 12:37	473
	httpd-2.4.35.tar.gz.sha256	2018-09-21 12:37	86
	httpd-2.4.37.tar.bz2	2018-10-22 14:13	6.7M
	httpd-2.4.37.tar.bz2.asc	2018-10-22 14:13	473
	httpd-2.4.37.tar.bz2.md5	2018-10-22 14:13	55
	httpd-2.4.37.tar.bz2.sha1	2018-10-22 14:13	63
	httpd-2.4.37.tar.bz2.sha256	2018-10-22 14:13	87
	httpd-2.4.37.tar.gz	2018-10-22 14:13	8.8M
	httpd-2.4.37.tar.gz.asc	2018-10-22 14:13	473
	httpd-2.4.37.tar.gz.md5	2018-10-22 14:13	54
	httpd-2.4.37.tar.gz.sha1	2018-10-22 14:13	62
	httpd-2.4.37.tar.gz.sha256	2018-10-22 14:13	86
	httpd-2.4.38.tar.bz2	2019-01-21 15:03	6.7M
	httpd-2.4.38.tar.bz2.asc	2019-01-21 15:03	488
	httpd-2.4.38.tar.bz2.md5	2019-01-21 15:03	55
	httpd-2.4.38.tar.bz2.sha1	2019-01-21 15:03	63
	httpd-2.4.38.tar.bz2.sha256	2019-01-21 15:03	87
	httpd-2.4.38.tar.gz	2019-01-21 15:03	8.8M
	httpd-2.4.38.tar.gz.asc	2019-01-21 15:03	488
	httpd-2.4.38.tar.gz.md5	2019-01-21 15:03	54
	httpd-2.4.38.tar.gz.sha1	2019-01-21 15:03	62

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我这里安装的是httpd-2.4.37版

192.168.224.4 (root)

Terminal Sessions View X server Tools Settings Macros Help

Session Servers Tools Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

Name

..

.bash_history

.bash_logout

.bash_profile

.bashrc

.cshrc

.tcshrc

.viminfo

anaconda-ks.cfg

3. 192.168.224.4 (root)

4. 192.168.224.4 (root)

```
[root@localhost ~]# httpd -version
Server version: Apache/2.4.37 (centos)
Server built:   Oct  7 2019 21:42:02
[root@localhost ~]#
```

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2. 系统环境设置

(1) 放行80端口

```
firewall-cmd --permanent --zone=public --add-port=80/tcp
```

(2) 禁用selinux

```
vim /etc/selinux/config
```

将SELINUX=enforcing修改成SELINUX=disabled

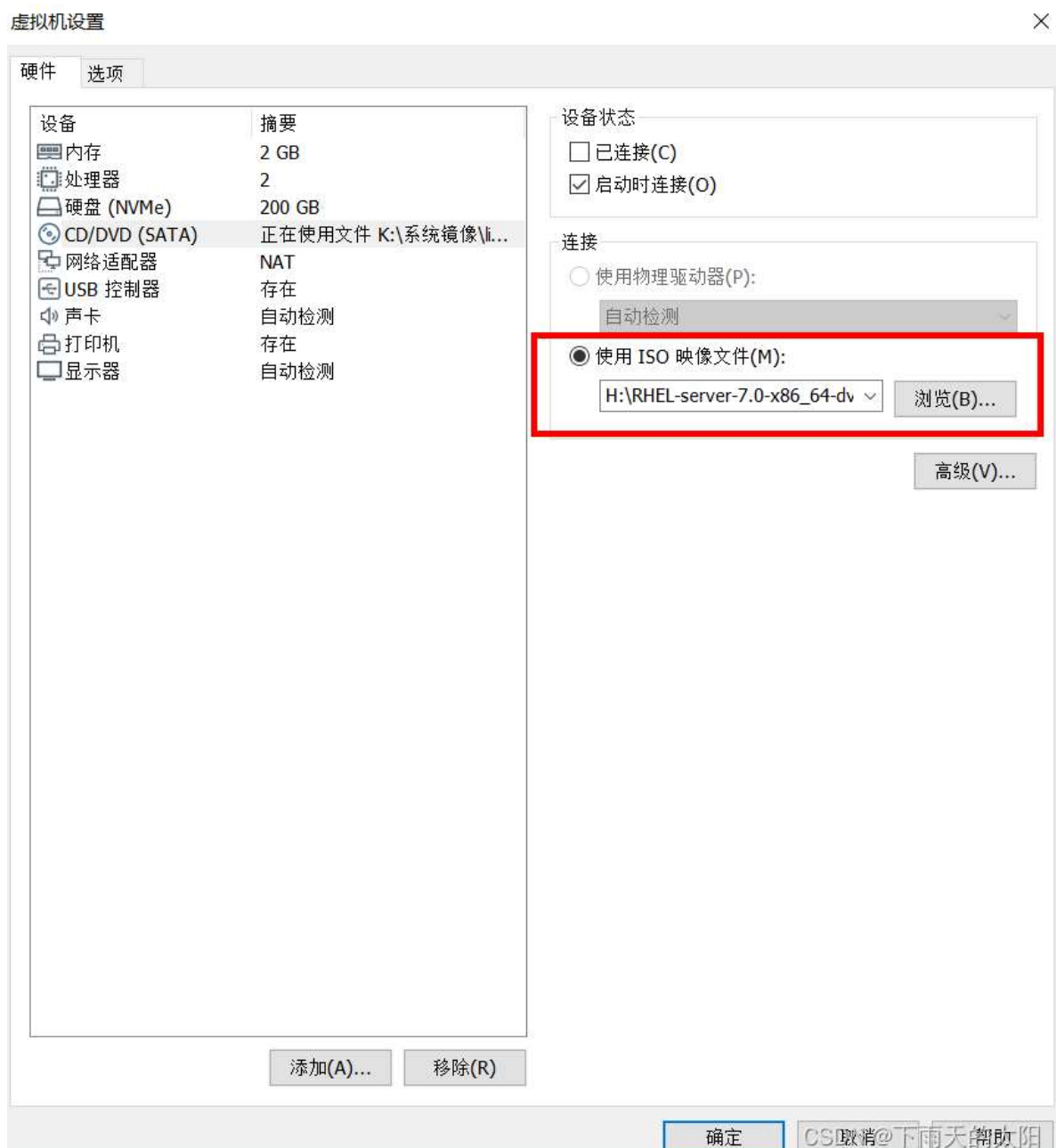
(3) 重启系统

```
init 0或者是reboot
```

注意：做以上操作是为了在局域网内的其他服务器系统可以成功访问这台服务器的Apache服务器目录下的静态资源，必须要做的，否则即使镜像源搭建成功，也不能访问

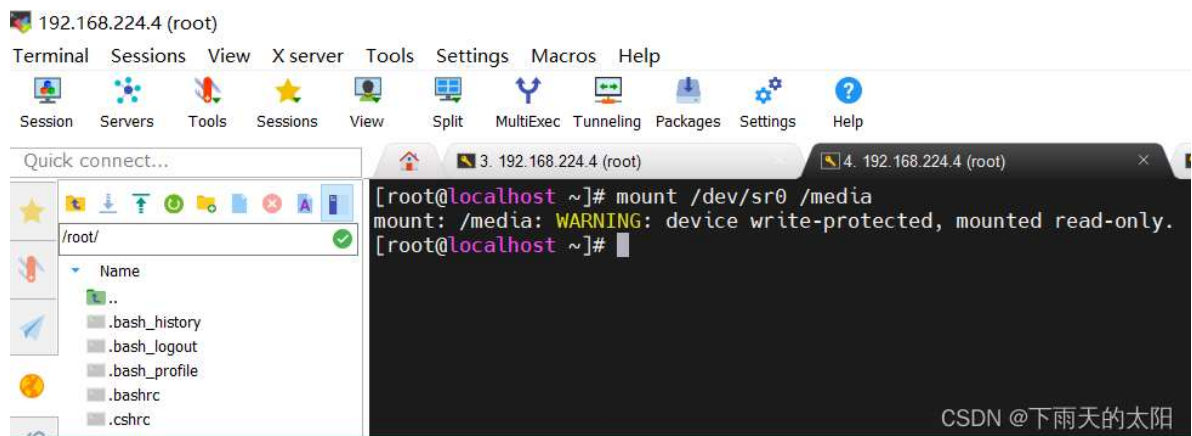
3. 放置镜像包

我这里直接将镜像挂载到VMware虚拟机上，实体机可以使用U盘来拷贝镜像（这里说的镜像是完整版的系统安装镜像）



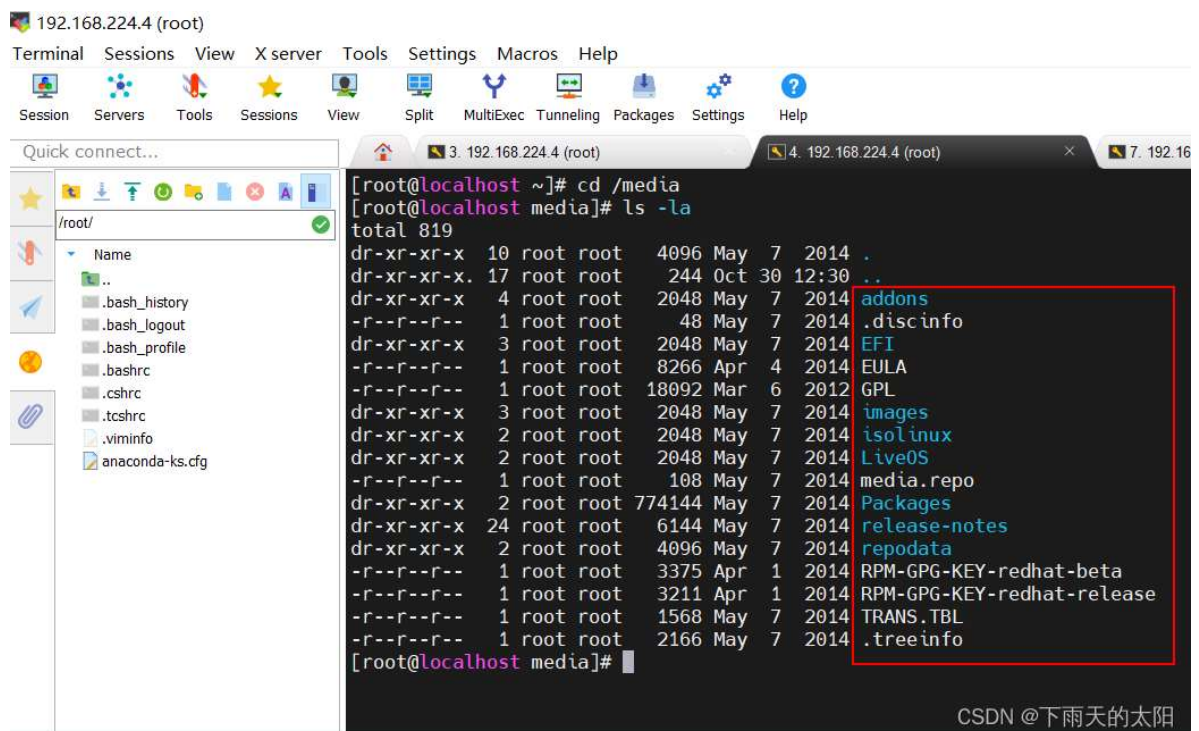
然后执行下面命令挂载iso系统镜像，显示如下图表示挂载成功

```
mount /dev/sr0 /media
```



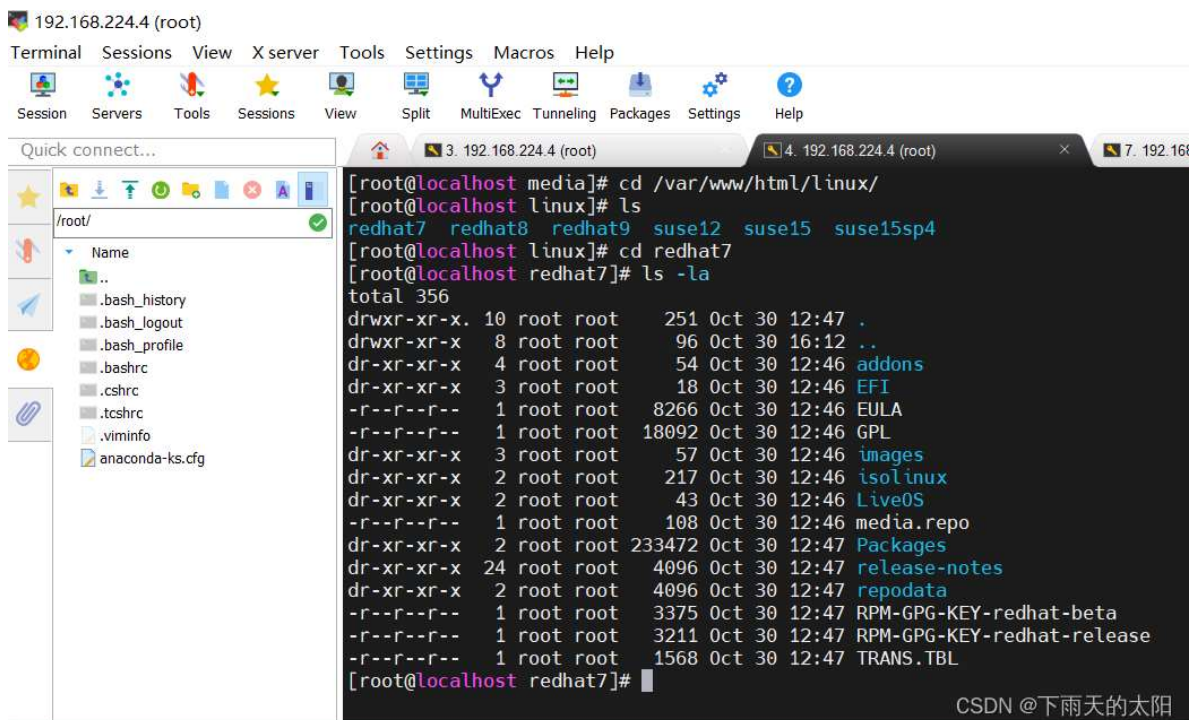
然后可以来到media目录看看挂载的内容,确实和系统安装iso镜像里面的内容一样,后面部署完成后,在浏览器访问也是这样内容

```
cd /media
ls -la
```



紧接着我们把当前目录下redhat7.0系统安装镜像的的全部内容复制到/var/www/html/linux/redhat7目录下,其他的镜像都按照这个步骤操作即可

```
cp -R /media/* /var/www/html/linux/redhat7/
```



4. 测试部署的局域网镜像源

待需要的镜像全部放置完成后，我们在浏览器上访问看看，

访问路径：<http://192.168.224.4/linux/>，访问的ip地址就是你镜像存放的服务器ip地址，如下图所示，是不是和网上阿里云或是网易他们的差不多呢。。。



Index of /linux

Name	Last modified	Size	Description
Parent Directory		-	
redhat7/	2022-10-30 12:47	-	
redhat8/	2022-10-30 08:35	-	
redhat9/	2022-10-30 13:50	-	
suse12/	2022-10-30 14:49	-	
suse15/	2022-10-30 15:03	-	
suse15sp4/	2022-10-30 16:11	-	

Index of /linux/redhat7

Name	Last modified	Size	Description
Parent Directory		-	
EFI/	2022-10-30 12:46	-	
EULA	2022-10-30 12:46	8.1K	
GPL	2022-10-30 12:46	18K	
LiveOS/	2022-10-30 12:46	-	
Packages/	2022-10-30 12:47	-	
RPM-GPG-KEY-redhat-beta	2022-10-30 12:47	3.3K	
RPM-GPG-KEY-redhat-r.>	2022-10-30 12:47	3.1K	
TRANS.TBL	2022-10-30 12:47	1.5K	
addons/	2022-10-30 12:46	-	
images/	2022-10-30 12:46	-	
isolinux/	2022-10-30 12:46	-	
media.repo	2022-10-30 12:46	108	
release-notes/	2022-10-30 12:47	-	
repodata/	2022-10-30 12:47	-	

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Index of /linux/redhat8

Name	Last modified	Size	Description
Parent Directory		-	
AppStream/	2022-10-30 08:29	-	
BaseOS/	2022-10-30 08:34	-	
EFI/	2022-10-30 08:35	-	
EULA	2022-10-30 08:35	8.1K	
GPL	2022-10-30 08:35	18K	
RPM-GPG-KEY-redhat-beta	2022-10-30 08:35	1.6K	
RPM-GPG-KEY-redhat-r.>	2022-10-30 08:35	5.0K	
TRANS.TBL	2022-10-30 08:35	1.8K	
extra_files.json	2022-10-30 08:35	1.4K	
images/	2022-10-30 08:35	-	
isolinux/	2022-10-30 08:35	-	
media.repo	2022-10-30 08:35	103	

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Index of /linux/redhat9

Name	Last modified	Size	Description
Parent Directory		-	
AppStream/	2022-10-30 13:49	-	
BaseOS/	2022-10-30 13:50	-	
EFI/	2022-10-30 13:50	-	
EULA	2022-10-30 13:50	8.0K	
GPL	2022-10-30 13:50	18K	
RPM-GPG-KEY-redhat-beta	2022-10-30 13:50	1.6K	
RPM-GPG-KEY-redhat-r.>	2022-10-30 13:50	3.6K	
extra_files.json	2022-10-30 13:50	1.4K	
images/	2022-10-30 13:50	-	
isolinux/	2022-10-30 13:50	-	
media.repo	2022-10-30 13:50	103	

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← → ↻ ⚠ 不安全 | 192.168.224.4/linux/suse12/

应用 已导入 百度一下，你就知道 git-for-windows... 文档 - OneDrive jamysong主页

Index of /linux/suse12


Name	Last modified	Size	Description
Parent Directory		-	
ARCHIVES.gz	2022-10-30 14:49	5.0M	
COPYING	2022-10-30 14:49	18K	
COPYING.de	2022-10-30 14:49	25K	
COPYRIGHT	2022-10-30 14:49	1.4K	
COPYRIGHT.de	2022-10-30 14:49	1.6K	
ChangeLog	2022-10-30 14:49	18M	
EFI/	2022-10-30 14:49	-	
INDEX.gz	2022-10-30 14:49	39K	
NEWS	2022-10-30 14:49	146K	
boot/	2022-10-30 14:49	-	
content	2022-10-30 14:49	11K	
content.asc	2022-10-30 14:49	481	
content.key	2022-10-30 14:49	972	
control.xml	2022-10-30 14:49	47K	
directory.yast	2022-10-30 14:49	263	
docu/	2022-10-30 14:49	-	
gpg-pubkey-39db7c82-...>	2022-10-30 14:49	955	
gpg-pubkey-50a3dd1c-...>	2022-10-30 14:49	1.0K	
license.tar.gz	2022-10-30 14:49	87K	
ls-IR.gz	2022-10-30 14:49	62K	
media.1/	2022-10-30 14:49	-	
pubring.gpg	2022-10-30 14:49	1.3K	

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Index of /linux/suse15

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 Parent Directory		-	
 Module-Basesystem/	2022-10-30 15:01	-	
 Module-CAP-Tools/	2022-10-30 15:01	-	
 Module-Containers/	2022-10-30 15:01	-	
 Module-Desktop-Appli..>	2022-10-30 15:02	-	
 Module-Development-T..>	2022-10-30 15:02	-	
 Module-HPC/	2022-10-30 15:02	-	
 Module-Legacy/	2022-10-30 15:03	-	
 Module-Live-Patching/	2022-10-30 15:03	-	
 Module-Public-Cloud/	2022-10-30 15:03	-	
 Module-SAP-Applicati..>	2022-10-30 15:03	-	
 Module-Server-Applic..>	2022-10-30 15:03	-	
 Module-Web-Scripting/	2022-10-30 15:03	-	
 Product-HA/	2022-10-30 15:03	-	
 Product-HPC/	2022-10-30 15:03	-	
 Product-SLED/	2022-10-30 15:03	-	
 Product-SLES/	2022-10-30 15:03	-	
 Product-SLES_SAP/	2022-10-30 15:03	-	
 Product-WE/	2022-10-30 15:03	-	
 media.1/	2022-10-30 15:00	-	

Index of /linux/suse15sp4

Name	Last modified	Size	Description
 Parent Directory		-	
 ARCHIVES.gz	2022-10-30 16:00	71K	
 CHECKSUMS	2022-10-30 16:01	24K	
 CHECKSUMS.asc	2022-10-30 16:01	481	
 COPYRIGHT	2022-10-30 16:01	1.4K	
 COPYRIGHT.de	2022-10-30 16:01	1.6K	
 ChangeLog	2022-10-30 16:01	215K	
 EFI/	2022-10-30 16:01	-	
 INDEX.gz	2022-10-30 16:01	1.5K	
 Module-Basesystem/	2022-10-30 16:03	-	
 Module-Containers/	2022-10-30 16:04	-	
 Module-Desktop-Appli..>	2022-10-30 16:06	-	
 Module-Development-T..>	2022-10-30 16:07	-	
 Module-HPC/	2022-10-30 16:08	-	
 Module-Legacy/	2022-10-30 16:09	-	
 Module-Live-Patching/	2022-10-30 16:09	-	
 Module-Public-Cloud/	2022-10-30 16:09	-	
 Module-Python3/	2022-10-30 16:09	-	
 Module-SAP-Applicati..>	2022-10-30 16:09	-	
 Module-Server-Applic..>	2022-10-30 16:09	-	
 Module-Transactional..>	2022-10-30 16:10	-	
 Module-Web-Scripting/	2022-10-30 16:10	-	
 Product-HA/	2022-10-30 16:10	-	

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我这拿suse15sp4试一下看看

```
cd /etc/zypp/repos.d
```

```
vim SUSE15.repo
```

添加如下内容:

```
[Module-Basesystem]
enabled=1
autorefresh=0
baseurl=http://192.168.224.4/linux/suse15sp4/Module-Basesystem

[Module-Containers]
enabled=1
autorefresh=0
baseurl=http://192.168.224.4/linux/suse15sp4/Module-Containers

[Module-Desktop-Applications]
enabled=1
autorefresh=0
baseurl=http://192.168.224.4/linux/suse15sp4/Module-Desktop-Applications
```

[Module-Development-Tools]
enabled=1
autorefresh=0
baseurl=http://192.168.224.4/linux/suse15sp4/Module-Development-Tools

[Module-HPC]
enabled=1
autorefresh=0
baseurl=http://192.168.224.4/linux/suse15sp4/Module-HPC

[Module-Legacy]
enabled=1
autorefresh=0
baseurl=http://192.168.224.4/linux/suse15sp4/Module-Legacy

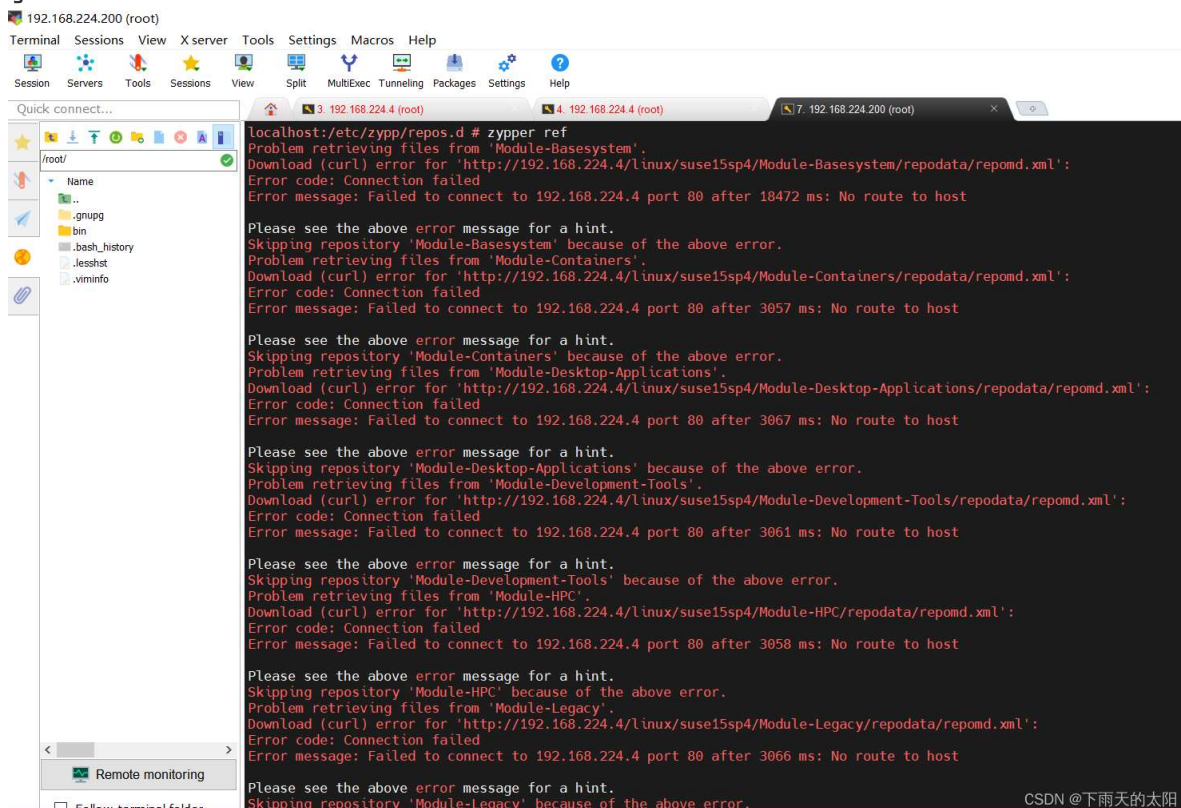
[Module-Live-Patching]
enabled=1
autorefresh=0
baseurl=http://192.168.224.4/linux/suse15sp4/Module-Live-Patching

[Module-Public-Cloud]
enabled=1
autorefresh=0
baseurl=http://192.168.224.4/linux/suse15sp4/Module-Public-Cloud

[Module-SAP-Applications]
enabled=1
autorefresh=0
baseurl=http://192.168.224.4/linux/suse15sp4/Module-SAP-Applications

[Module-Server-Applications]
enabled=1
autorefresh=0
baseurl=http://192.168.224.4/linux/suse15sp4/Module-Server-Applications

首先我们关掉镜像源服务器看看是么情况，如下图所示，确实是访问我们搭建的局域网镜像源服务器了



```
192.168.224.200 (root)
Terminal Sessions View X server Tools Settings Macros Help
Session Servers Tools Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...
/root/
Name
..
.gnupg
bin
.bash_history
.jlessht
.viminfo

Remote monitoring
Follow terminal folder

localhost:/etc/zypp/repos.d # zypper ref
Problem retrieving files from 'Module-Basesystem'.
Download (curl) error for 'http://192.168.224.4/Linux/suse15sp4/Module-Basesystem/repodata/repomd.xml':
Error code: Connection failed
Error message: Failed to connect to 192.168.224.4 port 80 after 18472 ms: No route to host

Please see the above error message for a hint.
Skipping repository 'Module-Basesystem' because of the above error.
Problem retrieving files from 'Module-Containers'.
Download (curl) error for 'http://192.168.224.4/Linux/suse15sp4/Module-Containers/repodata/repomd.xml':
Error code: Connection failed
Error message: Failed to connect to 192.168.224.4 port 80 after 3057 ms: No route to host

Please see the above error message for a hint.
Skipping repository 'Module-Containers' because of the above error.
Problem retrieving files from 'Module-Desktop-Applications'.
Download (curl) error for 'http://192.168.224.4/Linux/suse15sp4/Module-Desktop-Applications/repodata/repomd.xml':
Error code: Connection failed
Error message: Failed to connect to 192.168.224.4 port 80 after 3067 ms: No route to host

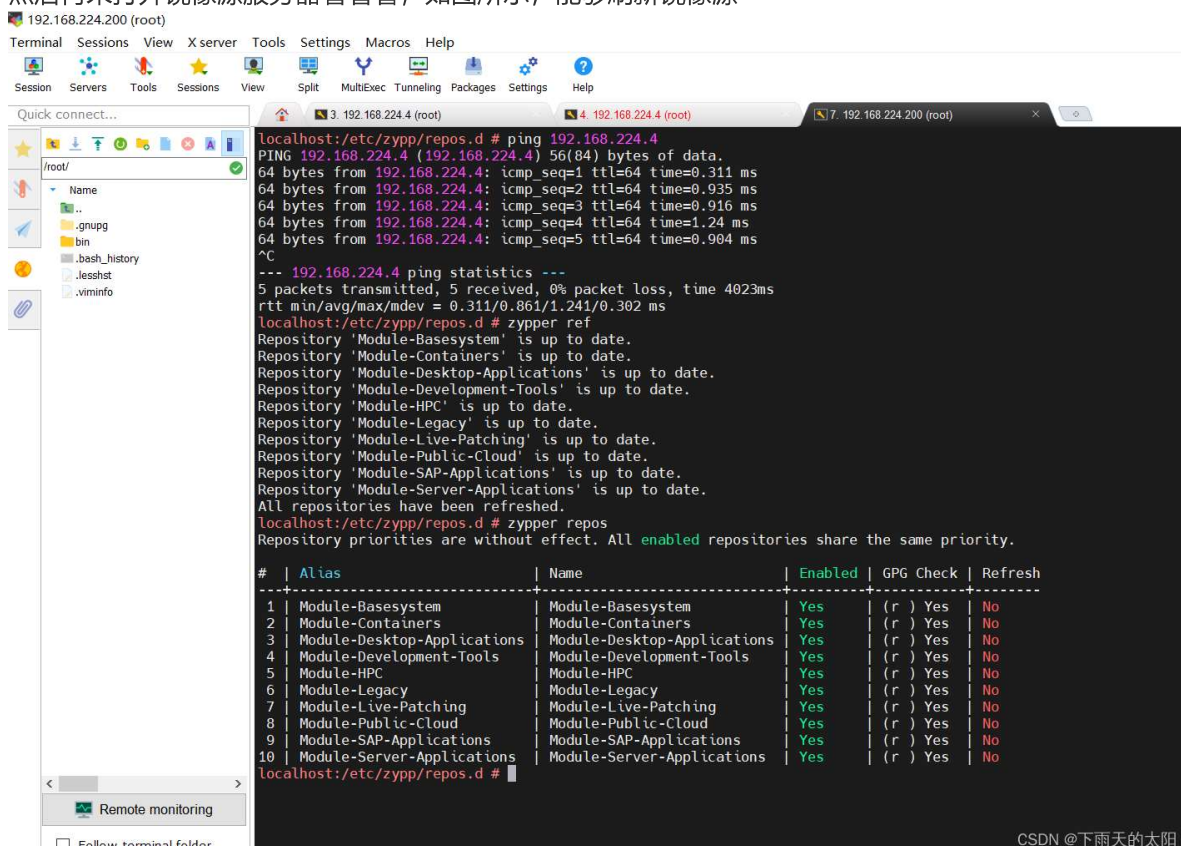
Please see the above error message for a hint.
Skipping repository 'Module-Desktop-Applications' because of the above error.
Problem retrieving files from 'Module-Development-Tools'.
Download (curl) error for 'http://192.168.224.4/Linux/suse15sp4/Module-Development-Tools/repodata/repomd.xml':
Error code: Connection failed
Error message: Failed to connect to 192.168.224.4 port 80 after 3061 ms: No route to host

Please see the above error message for a hint.
Skipping repository 'Module-Development-Tools' because of the above error.
Problem retrieving files from 'Module-HPC'.
Download (curl) error for 'http://192.168.224.4/Linux/suse15sp4/Module-HPC/repodata/repomd.xml':
Error code: Connection failed
Error message: Failed to connect to 192.168.224.4 port 80 after 3058 ms: No route to host

Please see the above error message for a hint.
Skipping repository 'Module-HPC' because of the above error.
Problem retrieving files from 'Module-Legacy'.
Download (curl) error for 'http://192.168.224.4/Linux/suse15sp4/Module-Legacy/repodata/repomd.xml':
Error code: Connection failed
Error message: Failed to connect to 192.168.224.4 port 80 after 3066 ms: No route to host

Please see the above error message for a hint.
Skipping repository 'Module-Legacy' because of the above error.
```

然后再来打开镜像源服务器看看，如图所示，能够刷新镜像源



```
192.168.224.200 (root)
Terminal Sessions View X server Tools Settings Macros Help
Session Servers Tools Sessions View Split MultiExec Tunneling Packages Settings Help

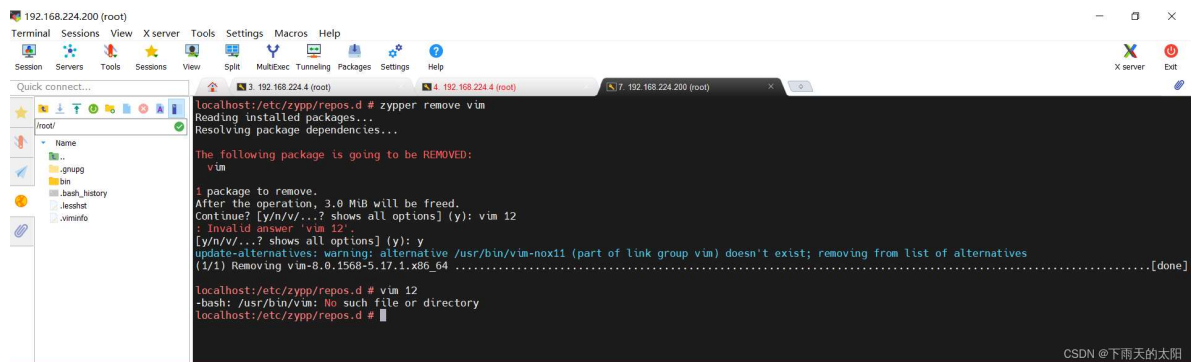
Quick connect...
/root/
Name
..
.gnupg
bin
.bash_history
.jlessht
.viminfo

Remote monitoring
Follow terminal folder

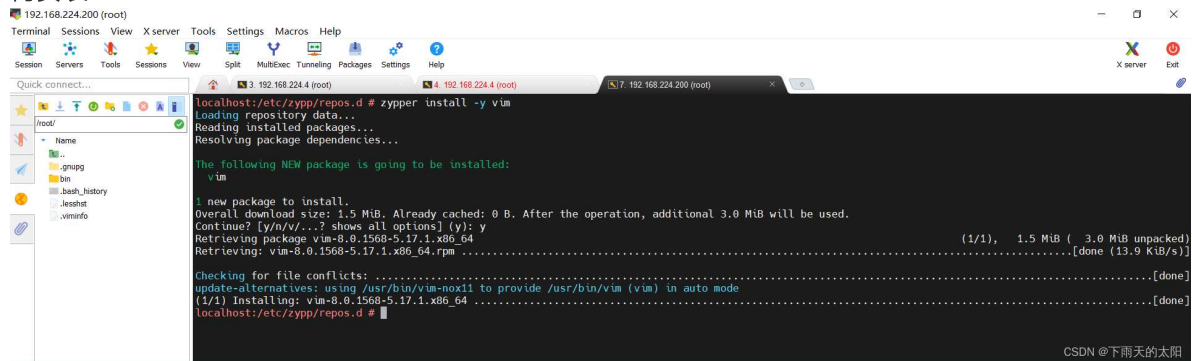
localhost:/etc/zypp/repos.d # ping 192.168.224.4
PING 192.168.224.4 (192.168.224.4) 56(84) bytes of data.
64 bytes from 192.168.224.4: icmp_seq=1 ttl=64 time=0.311 ms
64 bytes from 192.168.224.4: icmp_seq=2 ttl=64 time=0.935 ms
64 bytes from 192.168.224.4: icmp_seq=3 ttl=64 time=0.916 ms
64 bytes from 192.168.224.4: icmp_seq=4 ttl=64 time=1.24 ms
64 bytes from 192.168.224.4: icmp_seq=5 ttl=64 time=0.904 ms
^C
--- 192.168.224.4 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4023ms
rtt min/avg/max/mdev = 0.311/0.861/1.241/0.302 ms
localhost:/etc/zypp/repos.d # zypper ref
Repository 'Module-Basesystem' is up to date.
Repository 'Module-Containers' is up to date.
Repository 'Module-Desktop-Applications' is up to date.
Repository 'Module-Development-Tools' is up to date.
Repository 'Module-HPC' is up to date.
Repository 'Module-Legacy' is up to date.
Repository 'Module-Live-Patching' is up to date.
Repository 'Module-Public-Cloud' is up to date.
Repository 'Module-SAP-Applications' is up to date.
Repository 'Module-Server-Applications' is up to date.
All repositories have been refreshed.
localhost:/etc/zypp/repos.d # zypper repos
Repository priorities are without effect. All enabled repositories share the same priority.

# | Alias | Name | Enabled | GPG Check | Refresh
+---+-----+-----+-----+-----+-----+
1 | Module-Basesystem | Module-Basesystem | Yes | (r ) Yes | No
2 | Module-Containers | Module-Containers | Yes | (r ) Yes | No
3 | Module-Desktop-Applications | Module-Desktop-Applications | Yes | (r ) Yes | No
4 | Module-Development-Tools | Module-Development-Tools | Yes | (r ) Yes | No
5 | Module-HPC | Module-HPC | Yes | (r ) Yes | No
6 | Module-Legacy | Module-Legacy | Yes | (r ) Yes | No
7 | Module-Live-Patching | Module-Live-Patching | Yes | (r ) Yes | No
8 | Module-Public-Cloud | Module-Public-Cloud | Yes | (r ) Yes | No
9 | Module-SAP-Applications | Module-SAP-Applications | Yes | (r ) Yes | No
10 | Module-Server-Applications | Module-Server-Applications | Yes | (r ) Yes | No
localhost:/etc/zypp/repos.d #
```

现在来测试安装vim编辑器，
先卸载掉：



再安装



到此整个局域网的Linux镜像源搭建完成！！！！