

2022.07.16 17:00

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Docker

CZ-A4

H102	H103
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```

Debian GNU/Linux 11 debian tty1

debian login: root
Password:
Linux debian 5.10.0-15-amd64 #1 SMP Debian 5.10.120-1 (2022-06-09) x86_64

The programs included with the Debian GNU/Linux system are free software; the
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Jul 22 10:15:42 EDT 2022 on tty1
root@debian:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens18: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 8a:34:02:64:bd:67 brd ff:ff:ff:ff:ff:ff
    altname enp0s18
    inet 192.168.2.103/24 brd 192.168.2.255 scope global dynamic managed ens18
        valid_lft 43145sec preferred_lft 43145sec
    inet6 fd9a:566:21bb:0:8834:2ff:fe64:bd67/64 scope global dynamic managed mcast
        valid_lft forever preferred_lft forever
    inet6 240e:331:3060:9600:8834:2ff:fe64:bd67/64 scope global dynamic managed mcast
        valid_lft 2191sec preferred_lft 2191sec
    inet6 fe80::8834:2ff:fe64:bd67/64 scope link
        valid_lft forever preferred_lft forever
3: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default qlen 1000
    link/ether 02:42:55:10:6a:fd brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
        valid_lft forever preferred_lft forever
root@debian:~# _

```

Debian 11

2 | 4 Cores 8.00 GiB 100 G

pve.321jr.com | root / Jag.....9

ssh-11021 web.1-11022 web.2-11023	ssh-11031 web.1-11032 web.2-11033

- - - Docker - H101-11013 http://pve.321jr.com:11013

H101-11013



H101-wordpress 又一个WordPress站点

全新UMoMA开



— —

- - - Docker - H102-11022 http://pve.321jr.com:11022

— —

- - - Docker - H102-11023 http://pve.321jr.com:11023

— —

- - - Docker - H103-11032 http://pve.321jr.com:11032

— —

- - - Docker - H103-11033 <http://pve.321jr.com:11033>

Docker

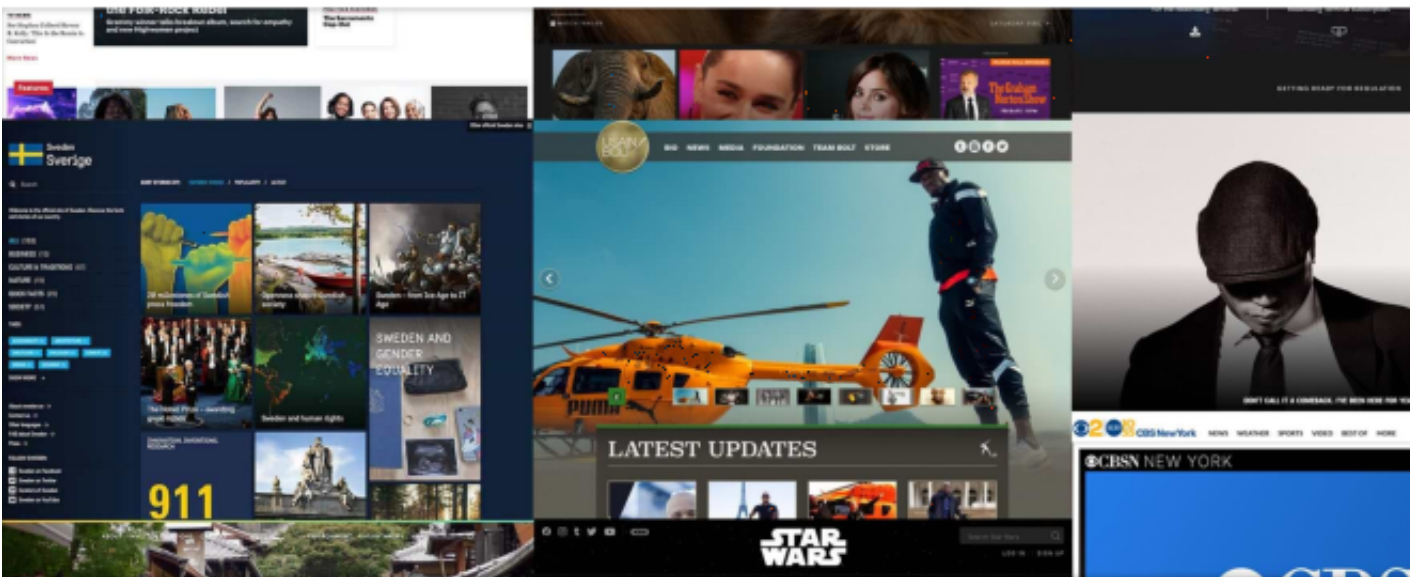
Docker

WordPress Typecho

WordPress

受到最好的信任

43% 的网络使用 WordPress, 从爱好博客到最大的在线新闻网站。



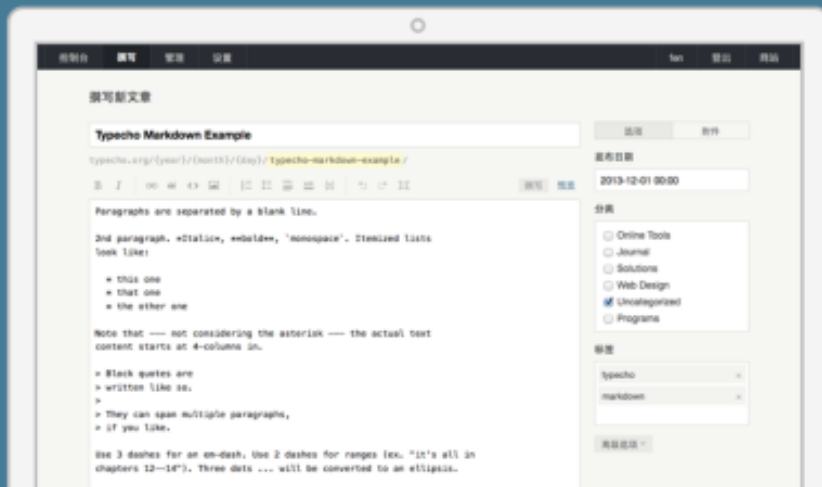
Typecho

念念不忘，必有回响

N 年 Typecho 沉淀，现在，回应您的等待

立即下载

GitHub 源码



WordPress

Typecho

Docker

<https://www.ruanyifeng.com/blog/2018/02/docker-tutorial.html>

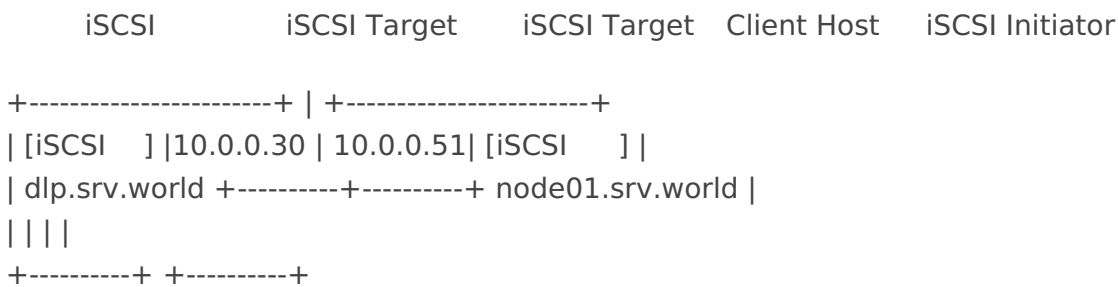
Docker

<https://www.ruanyifeng.com/blog/2018/02/docker-wordpress-tutorial.html>

Docker

	<code>docker help</code>
	<code>docker version</code> <code>docker info</code>
	<code>docker search redis</code>
	<code>docker pull nginx[:tag]</code>
	<code>docker images</code>
	<code>docker history nginx:latest</code>
	<code>docker tag name:tag name:tag</code>
	<code>docker rmi name:tag</code>
	<code>docker run -d redis</code>
	<code>docker run -d --name nginx -p 8080:80 nginx</code>
	<code>docker run -d --name container_name -p 6379 redis:latest</code>
	<code>docker run -d --name redcontainer_name ismapped -v /opt/docker/data/redis:/data redis</code>
	<code>docker ps</code> <code>docker ps -a</code>
	<code>docker stop container_name</code>
	<code>docker inspect container_id</code>
	<code>docker run nginx ps</code> <code>docker run -it nginx bash</code>
	<code>docker logs container_id</code>
	<code>docker cp source_file container_name:PATH</code>
	<code>docker commit container_id image_name</code>

iSCSI



[1]

```
dnf -y install targetcli
```

[2] iSCSI

[/var/lib/iscsi_disks]

SCSI

```
# create a directory
[root@dlp ~]# mkdir /var/lib/iscsi_disks

# enter the admin console
[root@dlp ~]# targetcli
targetcli shell version 2.1.53
Copyright 2011-2013 by Datera, Inc and others.
For help on commands, type 'help'.

/> cd backstores/fileio

# create a disk-image with the name [disk01] on [/var/lib/iscsi_disks/disk01.img] with 10G
/backstores/fileio> create disk01 /var/lib/iscsi_disks/disk01.img 10G
Created fileio disk01 with size 10737418240
/backstores/fileio> cd /iscsi

# create a target
# naming rule : [ iqn.(year)-(month).(reverse of domain name):(any name you like) ]
/iscsi> create iqn.2021-03.world.srv:dlp.target01
Created target iqn.2021-03.world.srv:dlp.target01.
Created TPG 1.
```

```

Global pref auto_add_default_portal=true
Created default portal listening on all IPs (0.0.0.0), port 3260.
/iscsi> cd iqn.2021-03.world.srv:dlp.target01/tpg1/luns

# set LUN
/iscsi/iqn.20...t01/tpg1/luns> create /backstores/fileio/disk01
Created LUN 0.
/iscsi/iqn.20...t01/tpg1/luns> cd ../acls

# set ACL (it's the IQN of an initiator you permit to connect)
/iscsi/iqn.20...t01/tpg1/acls> create iqn.2021-03.world.srv:node01.initiator01
Created Node ACL for iqn.2021-03.world.srv:node01.initiator01
Created mapped LUN 0.
/iscsi/iqn.20...t01/tpg1/acls> cd iqn.2021-03.world.srv:node01.initiator01

# set UserID and Password for authentication
/iscsi/iqn.20...w.initiator01> set auth userid=username
Parameter userid is now 'username'.
/iscsi/iqn.20...w.initiator01> set auth password=password
Parameter password is now 'password'.
/iscsi/iqn.20...w.initiator01> exit
Global pref auto_save_on_exit=true
Configuration saved to /etc/target/saveconfig.json

# after configuration above, the target enters in listening like follows
[root@dlp ~]# ss -napt | grep 3260
LISTEN 0      256          0.0.0.0:3260      0.0.0.0:*

[root@dlp ~]# systemctl enable target

```

[3] Firewalld iSCSI Target

```

[root@dlp ~]# firewall-cmd --add-service=iscsi-target --permanent
success
[root@dlp ~]# firewall-cmd --reload
success

```

iSCSI

iSCSI

```
+-----+ | +-----+
|[iSCSI  ]|10.0.0.30|10.0.0.51|[iSCSI  ]|
|dlp.srv.world +-----+ node01.srv.world |
||||
+-----+ +-----+
```

[1] iSCSI Initiator iSCSI Target

```
[root@node01 ~]# dnf -y install iscsi-initiator-utils
[root@node01 ~]# vi /etc/iscsi/initiatorname.iscsi
# change to the same IQN you set on the iSCSI target server
InitiatorName=iqn.2021-03.world.srv:node01.initiator01
[root@node01 ~]# vi /etc/iscsi/iscsid.conf
# line 58 : uncomment
node.session.auth.authmethod = CHAP
# line 69,70 : uncomment and specify the username and password you set on the iSCSI target
server
node.session.auth.username = username
node.session.auth.password = password
# discover target
[root@node01 ~]# iscsiadm -m discovery -t sendtargets -p 10.0.0.30
[ 894.285096] Loading iSCSI transport class v2.0-870.
[ 894.308086] iscsi: registered transport (tcp)
10.0.0.30:3260,1 iqn.2021-03.world.srv:dlp.target01

# confirm status after discovery
[root@node01 ~]# iscsiadm -m node -o show
# BEGIN RECORD 2.1.2
node.name = iqn.2021-03.world.srv:dlp.target01
node.tpgt = 1
node.startup = automatic
node.leading_login = No
iface.iscsi_ifacename = default
.....
```

```

.....
node. conn[0].iscsi.HeaderDigest = None
node. conn[0].iscsi.DataDigest = None
node. conn[0].iscsi.IFMarker = No
node. conn[0].iscsi.OFMarker = No
# END RECORD

# login to the target
[root@node01 ~]# iscsiadm -m node --login
Logging in to [iface: default, target: iqn.2021-03.world.srv:dlp.target01, portal:
10.0.0.30,3260]
Login to [iface: default, target: iqn.2021-03.world.srv:dlp.target01, portal: 10.0.0.30,3260]
successful.

# confirm the established session
[root@node01 ~]# iscsiadm -m session -o show
tcp: [1] 10.0.0.30:3260,1 iqn.2021-03.world.srv:dlp.target01 (non-flash)
# confirm the partitions
[root@node01 ~]# cat /proc/partitions
major minor #blocks name

252      0   31457280 sda
252      1    1048576 sda1
252      2   30407680 sda2
252     16   83886080 sdb
252     17   83885056 sdb1
253      0   27258880 dm-0
253      1    3145728 dm-1
 8        0    10485760 sdc

# added new device provided from the target server as [sdc]

```

[2] iSCSI Initiator

```

# create label
[root@node01 ~]# parted --script /dev/sdc "mklabel gpt"
# create partiton
[root@node01 ~]# parted --script /dev/sdc "mkpart primary 0% 100%"
# format with XFS
[root@node01 ~]# mkfs.xfs -i size=1024 -s size=4096 /dev/sdc1
meta-data=/dev/sdc1 isize=1024 agcount=4, agsize=654336 blks

```

```
= sectsz=4096 attr=2, projid32bit=1
= crc=1 finobt=1, sparse=1, rmapbt=0
= reflink=1
data = bsize=4096 blocks=2617344, imaxpct=25
= sunit=0 swidth=0 blks
naming =version 2 bsize=4096 ascii-ci=0, ftype=1
log =internal log bsize=4096 blocks=2560, version=2
= sectsz=4096 sunit=1 blks, lazy-count=1
realtime =none extsz=4096 blocks=0, rtextents=0
```

```
[root@node01 ~]# mount /dev/sdc1 /mnt
```

```
[root@node01 ~]# df -hT
```

```
Filesystem Type Size Used Avail Use% Mounted on
```

```
devtmpfs devtmpfs 1.9G 0 1.9G 0% /dev
```

```
tmpfs tmpfs 1.9G 0 1.9G 0% /dev/shm
```

```
tmpfs tmpfs 1.9G 8.6M 1.9G 1% /run
```

```
tmpfs tmpfs 1.9G 0 1.9G 0% /sys/fs/cgroup
```

```
/dev/mapper/cs-root xfs 26G 2.3G 24G 9% /
```

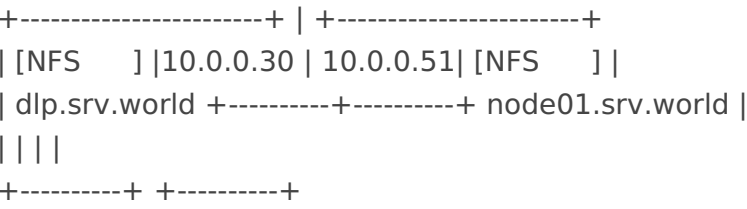
```
/dev/sda1 xfs 1014M 259M 756M 26% /boot
```

```
tmpfs tmpfs 374M 0 374M 0% /run/user/0
```

```
/dev/sdc1 xfs 10G 99M 9.9G 1% /mnt
```

NFS

NFS



[1] NFS

```
[root@dlp ~]# dnf -y install nfs-utils
[root@dlp ~]# vi /etc/idmapd.conf
# line 5 : uncomment and change to your domain name
Domain = srv.world
[root@dlp ~]# vi /etc/exports
# create new
# for example, set [/home/nfsshare] as NFS share
/home/nfsshare 10.0.0.0/24(rw,no_root_squash)
[root@dlp ~]# mkdir /home/nfsshare
[root@dlp ~]# systemctl enable --now rpcbind nfs-server
```

[2] Firewalld NFS

```
[root@dlp ~]# firewall-cmd --add-service=nfs --permanent
success
# if use NFSv3, allow follows, too
[root@dlp ~]# firewall-cmd --add-service={nfs3,mountd,rpc-bind} --permanent
success
[root@dlp ~]# firewall-cmd --reload
success
```

rw	NFS

ro	NFS
sync	
async	NFS NFS
secure	IPPORT_RESERVED (1024) Internet
insecure	
wdelay	
no_wdelay	NFS
subtree_check	
no_subtree_check	
root_squash	uid/gid 0 uid/gid uid gid
no_root_squash	
all_squash	uid gid NFS FTP
no_all_squash	
anonuid=UID	uid gid PC/NFS
anongid=GID	annuid=UID

NFS

NFS NFS NFS

```
+-----+ | +-----+
|[NFS   ]|10.0.0.30| 10.0.0.51|[NFS   ]|
|dlp.srv.world +-----+-----+ node01.srv.world |
||||
+-----+ +-----+
```

[1] NFS

```
[root@node01 ~]# dnf -y install nfs-utils
[root@node01 ~]# vi /etc/idmapd.conf
# line 5 : uncomment and change to your domain name
Domain = srv.world
[root@node01 ~]# mount -t nfs dlp.srv.world:/home/nfsshare /mnt
[root@node01 ~]# df -hT
```

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
devtmpfs	devtmpfs	1.9G	0	1.9G	0%	/dev
tmpfs	tmpfs	1.9G	0	1.9G	0%	/dev/shm
tmpfs	tmpfs	1.9G	8.6M	1.9G	1%	/run
tmpfs	tmpfs	1.9G	0	1.9G	0%	/sys/fs/cgroup
/dev/mapper/cs-root	xfs	26G	2.3G	24G	9%	/
/dev/vda1	xfs	1014M	259M	756M	26%	/boot
tmpfs	tmpfs	374M	0	374M	0%	/run/user/0
dlp.srv.world:/home/nfsshare	nfs4	26G	2.3G	24G	9%	/mnt

```
# NFS share is mounted

# if mount with NFSv3, add [-o vers=3] option
[root@node01 ~]# mount -t nfs -o vers=3 dlp.srv.world:/home/nfsshare /mnt
[root@node01 ~]# df -hT /mnt
```

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
dlp.srv.world:/home/nfsshare	nfs	26G	2.3G	24G	9%	/mnt

[2] [/etc/fstab]

```
[root@node01 ~]# vi /etc/fstab
```

/dev/mapper/cs-root	/	xfs	defaults	0 0
UUID=72e65d16-7d1a-40bc-9bc1-e45a8ba6d084 /boot				
xfs		defaults		0 0
/dev/mapper/cs-swap	none	swap	defaults	0 0
# add to the end : set NFS share				
dlp.srv.world: /home/nfsshare	/mnt	nfs	defaults	0 0

[3] NFS AutoFS

```
[root@node01 ~]# dnf -y install autofs
[root@node01 ~]# vi /etc/auto.master
# add to the end
/- /etc/auto.mount

[root@node01 ~]# vi /etc/auto.mount
# create new : [mount point] [option] [location]
/mnt -fstype=nfs,rw dlp.srv.world: /home/nfsshare

[root@node01 ~]# systemctl enable --now autofs
# move to the mount point to verify mounting
[root@node01 ~]# cd /mnt
[root@node01 mnt]# ll
total 8
-rw-r--r--. 1 root root 10 Mar  3 19:14 testfile.txt
-rw-r--r--. 1 root root  5 Mar  3 19:17 test.txt

[root@node01 mnt]# grep /mnt /proc/mounts
/etc/auto.mount /mnt autofs
rw,relatime,fd=17,pgrp=2468,timeout=300,minproto=5,maxproto=5,direct,pipe_ino=33352 0 0
dlp.srv.world: /home/nfsshare /mnt nfs4
rw,relatime,vers=4.2,rsiz=1048576,wsiz=1048576,namlen=255,hard,proto=tcp,timeo=600,retrans=2
,sec=sys,clientaddr=10.0.0.51,local_lock=none,addr=10.0.0.30 0 0
```