

Nextcloud??

- [Nextcloud?External Storage?????Array to string conversion?????](#)
- [Nextcloud?DB?????????](#)
- [Nextcloud?????????????????](#)

Nextcloud?External Storage?????Array to string conversion?????

?????

Nextcloud 28.x????????????????????????????????????

“ Array to string conversion at /var/www/html/nextcloud/lib/private/Files/Cache/Scanner.php#224

???????????

???????????

1. Nextcloud 28.x???????????
2. External Storage???????????????
3. ?????????S3????S3?????????????????????????????
4. ??????????????????????????????

?:[Nextcloud Hub 8, copying files to an External Storage configured as primary storage isn't reliable](#)

??

- Ubuntu 20.04
- Nextcloud 29.0.0
- PHP 8.1
- Apache 2.4
- ??????????????????wasabi???

???

??issue?

“ Pretty sure this would be fixed by #43794. At least in my limited testing using the merge request as a patch: <https://patch-diff.githubusercontent.com/raw/nextcloud/server/pull/43794.diff>

????????????????????

????????

1. root????
2. ?????????
3. ????????
4. Apache????

root?

```
sudo su -
```

Nextcloud?www-data????????????????????????????????????

???????

- Nextcloud????????

```
cd /var/www/html/nextcloud && pwd
```

????????

```
cd lib/private/Files/Cache
```

????????

- Scanner.php????

```
cp -pi Scanner.php /path/to/backup/directory/Scanner.php.$(date +%Y%m%d)
```

????????????????

- ?????

```
diff -u Scanner.php /path/to/backup/directory/Scanner.php.$(date +%Y%m%d)
```

????????????

????

- wget????

```
sudo -u www-data wget https://patch-diff.githubusercontent.com/raw/nextcloud/server/pull/43794.diff
```

- ????

```
sudo -u www-data patch < 43794.diff
```

```
patching file Scanner.php ??????OK???
```

???????

- ????

```
diff -u /path/to/backup/directory/Scanner.php.$(date +%Y%m%d) Scanner.php
```

- ????

```
    }

    // Only update metadata that has changed
-   $newData = array_diff_assoc($data, $cacheData->getData());
-
+   // i.e. get all the values in $data that are not present in the cache already
+   // NOTE: we serialize then unserialize here because array_diff_assoc() doesn't
+   // support multidimensional arrays on its own (and otherwise internally casts any
+   // embedded array elements to attempt to compare them - not only generating
warnings
+   // like "Array to string conversion" but also, as a result, overlooking real
differences)
+
+   $newData = array_diff_assoc(
+       array_map('serialize', $data),
+       array_map('serialize', $cacheData->getData())
+   );
+   $newData = array_map('unserialize', $newData);
+
    // make it known to the caller that etag has been changed and needs propagation
    if (isset($newData['etag'])) {
        $data['etag_changed'] = true;
    }
}
```

- Apache???

```
systemctl restart apache2.service
```

```
??root?????????sudo?????????
```

- ??????????

```
rm 43794.diff
```

???????

1. ?????Nextcloud????????????????????

2. ???

Nextcloud?DB????????

[Nextcloud??????](#)DB????

```
CREATE DATABASE IF NOT EXISTS nextcloud CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci;
```

??????

????????????????????????????????DB????ci(Case Insentive)????bin(Binary)??????

DB??

????????????

- Nextcloud????????

```
cd /var/www/html/nextcloud && pwd
```

????????????(???? /home/www-data/nextcloud)

- ?????????

```
sudo -u www-data php occ maintenance:mode --on
```

- ?????????

???Nextcloud?URL????????????????????????????

mysqldump????????????

- ?????????

```
cd /hoge && pwd
```

????????????????

- DB??????

```
mysqldump -h localhost -u nextcloud -p --no-tablespaces --single-transaction nextcloud >  
nextcloud_backup.$(date +%Y%m%d).sql
```

DB????????????????

- DB??????

```
ls -la nextcloud_backup.$(date +%Y%m%d).sql
```

??????????????

DB???

- ?????MySQL?????

```
mysql -u root -p
```

- ??DB???

```
SHOW DATABASES;
```

nextcloud?????DB??????????????

- ???????????????

```
ALTER DATABASE nextcloud COLLATE utf8mb4_bin;
```

- ???????????????

```
USE nextcloud;
```

```
SET @DATABASE_NAME = 'nextcloud';
```

DB????????????

```
SET @COLLATE = 'utf8mb4_bin';
```

```
SELECT CONCAT('ALTER TABLE ', TABLE_NAME, ' CONVERT TO CHARACTER SET utf8mb4 COLLATE ', @COLLATE,
';')
FROM INFORMATION_SCHEMA.TABLES
WHERE TABLE_SCHEMA = @DATABASE_NAME
AND TABLE_TYPE = 'BASE TABLE';
```

- MySQL????

```
EXIT
```

??????????????

- Nextcloud??????????

```
cd /var/www/html/nextcloud && pwd
```

????????(??? /home/www-data/nextcloud)

- ?????????

```
sudo -u www-data php occ maintenance:mode --off
```

- ?????????

???Nextcloud?URL????????????????????

???

????????????????????????????????????

- ??????DB????????

```
ls -l /hoge/nextcloud_backup.$(date +%Y%m%d).sql
```

????????????????

```
head -100 /hoge/nextcloud_backup.$(date +%Y%m%d).sql
```

????????????????

- ?????MySQL????

```
mysql -u root -p
```

- ??DB???

```
SHOW DATABASES;
```

nextcloud?????DB????????????

- ??????DB???

????????????????

```
DROP DATABASE nextcloud;
```

- DB????

```
CREATE DATABASE IF NOT EXISTS nextcloud CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci;
```

- MySQL????

```
EXIT
```


- DB??

```
mysql -h localhost -u nextcloud -p nextcloud < /hoge/nextcloud_backup.$(date +%Y%m%d).sql
```

????????????????????????????????

????????DB??

??SQL????????????????????????

- ?????????

```
cd /hoge && pwd
```

????????????????????????

- DB???????

```
ls -la nextcloud_backup.$(date +%Y%m%d).sql
```

????????????????

- ???????DB??

```
rm nextcloud_backup.$(date +%Y%m%d).sql
```

- DB????????

```
ls -la nextcloud_backup.$(date +%Y%m%d).sql
```

????????????????

Nextcloud????????????

Nextcloud?[Web???????](#)????????????????????????????????

??

???????????????

??

????????nextcloud?DB???????

????????????????[????????????????????](#) ?????????????????????

nextcloud_backup.sql

 ??SQL????????????????

??

- Ubuntu 24.04
- Apache2.4
- php 8.3
- MySQL 8.0.39
- Nextcloud 29.0.8

???

????????????????????

??????????

1. ????????????????
2. ????????????????????
3. ????????????????
4. ????????????????????
5. DB?????????
6. ???????????

Nextcloud???

- ??????

sudo mv /home/www-data/nextcloud /path/to/backup/directory/nextcloud.\$(date +%Y%m%d)

????????????????????

- ????

```
ls -l /path/to/backup/directory/nextcloud.$(date +%Y%m%d)
```

????????????????????

????????????????

- ?????????

```
cd /hoge && pwd
```

????????????

- wget??????

```
wget https://download.nextcloud.com/server/releases/nextcloud-29.0.8.zip
```

????????????????

- ??

```
unzip nextcloud-29.0.8.zip
```

- ????

```
sudo chown -R www-data:www-data nextcloud
```

Nextcloud?Web????????

- Nextcloud??

```
sudo mv nextcloud /home/www-data/
```

??Nextcloud????????

- ????

```
ls -l nextcloud /home/www-data/nextcloud
```

????????????

Nextcloud??

- ??????Nextcloud??????

```
sudo cp -pi /path/to/backup/directory/nextcloud.$(date +%Y%m%d)/config/config.php /home/www-data/nextcloud/config/
```

- ??????Nextcloud??????

```
sudo -u www-data cp -r /path/to/backup/directory/nextcloud.$(date +%Y%m%d)/apps/* /home/www-  
data/nextcloud/apps/
```

- ??????Nextcloud???????????

```
sudo -u www-data cp -r /path/to/backup/directory/nextcloud.$(date +%Y%m%d)/data/* /home/www-data/nextcloud/data/
```

```
????????????????????????????????????cp -r ?????mv ????????
```

- DB?????

```
mysql -u nextcloud -p nextcloud < /path/to/directory/nextcloud_backup.sql
```

```
-u nextcloudDB -p nextcloudDB '????????SQL????????????????'
```

- Web?????(Apache???)

```
sudo systemctl restart apache2.service
```

- Web?????(nginx???)

```
sudo systemctl restart nginx.service
```

?????

1. Nextcloud????????????
2. ?????????????????????
3. ?????????????????

????????????????

- ?????????

```
sudo rm -rf /path/to/backup/directory/nextcloud.$(date +%Y%m%d)
```

- ??????SQL??????

```
rm /path/to/directory/nextcloud_backup.sql
```