

Nextcloud

OSS??????????

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

??

- [Nextcloud?????](#)
 - [Ubuntu 20.04\(22.04\)?Nextcloud??????](#)
 - [Nextcloud?????????\(Gmail??\)](#)
 - [Nextcloud?????????\(config???redis-server????\)](#)
- [Nextcloud??](#)
 - [Nextcloud?External Storage?????Array to string conversion?????](#)

Nextcloud?????

Nextcloud?????

Ubuntu 20.04(22.04)?Nextcloud??????

?????????Ubuntu20.04?/Ubuntu22.04???Nextcloud??????

??

?????????

- Ubuntu 20.04
 - Ubuntu 22.04???????????
- MySQL 8.0.33
- Apache 2.4

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

??????????

?SSH????????????????????

1. PHP?????????????Ubuntu20.04??PHP8.x???????????
2. PHP?????????
3. Nextcloud??DB???????
4. Nextcloud????????????????????
5. Nextcloud???????Apache?????????????
6. Web???????????????

PHP????????????????????????????????

- ???????

```
sudo add-apt-repository ppa:ondrej/php
```

Ubuntu20.04?????????????PHP7.4????????????????

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

```
sudo aptitude update
```

- PHP??????

```
sudo aptitude install php8.1
```

- PHP????????

```
sudo aptitude install php8.1-  
{opcache,pdo,bcmath,calendar,ctype,fileinfo,ftp,gd,intl,json,ldap,mbstring,mysql,posix,readline,sockets,bz2,tokenizer,zip,curl,iconv,phar,xml,dev,imagick,gmp}
```

- Apache???

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

- PHP????????

```
php -v
```

???: PHP 8.1.21 (cli) (built: Jul 8 2023 07:09:57) (NTS)

PHP????????

- memcache?APCu???

```
cd /etc/php/8.1/cli/conf.d
```

```
cat <<- __EOF__ | sudo tee -a /etc/php/8.1/cli/conf.d/10-opcache.ini  
opcache.enable=1  
opcache.enable_cli=1  
opcache.interned_strings_buffer=16  
opcache.max_accelerated_files=10000  
opcache.memory_consumption=128  
opcache.save_comments=1  
opcache.revalidate_freq=1  
__EOF__
```

```
cat <<- __EOF__ | sudo tee -a /etc/php/8.1/cli/conf.d/20-apcu.ini  
[apcu]  
apc.enabled=1  
apc.shm_size=32M  
apc.ttl=7200  
apc.enable_cli=1  
apc.serializer=php  
__EOF__
```

- php.ini?????

```
sudo cp -pi /etc/php/8.1/apache2/php.ini /path/to/backup/php.ini.$(date +%Y%m%d)
```

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

- ???????

```
diff -u /etc/php/8.1/apache2/php.ini /path/to/backup/php.ini.$(date +%Y%m%d)
```

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

- sed????????

```
sudo sed -i 's/memory_limit = 128M/memory_limit = 512M/g' /etc/php/8.1/apache2/php.ini
```

memory_limit????512M????

- ???????

```
diff -u /path/to/backup/php.ini.$(date +%Y%m%d) /etc/php/8.1/apache2/php.ini
```

- ??

```
-memory_limit = 128M  
+memory_limit = 512M
```

- apache ???

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

Nextcloud?DB??????

- MySQL?root??????

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

- MySQL????

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

```
CREATE USER 'nextcloud'@'localhost' IDENTIFIED BY 'password';
```

```
GRANT ALL PRIVILEGES ON nextcloud.* TO 'nextcloud'@'localhost';
```

```
FLUSH PRIVILEGES;
```

```
EXIT;
```

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

```
mysql -u nextcloud -p
```

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

- DB???

```
SHOW DATABASES;
```

?????????nextcloud??????????

```
EXIT;
```

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

- ??????????

```
cd /home && pwd
```

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

- ??????

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

```
unzip latest
```

- Web??????????????????

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

????????????????????????????/home??????????

- ?????

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

Apache???????????

- ??????????

```
sudo mkdir /var/log/nextcloud
```

????????

- ?????????

```
sudo chown www-data:www-data /var/log/nextcloud
```

- nextcloud????????
 - ?????????????????

```
cat <<- __EOF__ | sudo tee -a /etc/apache2/sites-available/nextcloud.conf
<VirtualHost *:80>
    servername [hoge.example.com]
    # [ ]
    RewriteEngine On
        RewriteCond %{HTTPS} off
        RewriteRule ^(.*)$ https://%{HTTP_HOST}%{REQUEST_URI} [R=301,L]
    # HTTP[ ]HTTPS[ ]
</VirtualHost>

<VirtualHost *:443>
    ServerName [hoge.example.com]
    # [ ]
    CustomLog /var/log/nextcloud/nextcloud_access.log combined
    ErrorLog /var/log/nextcloud/nextcloud_error.log
    DocumentRoot [/home/www-data/nextcloud]
    # [ ]
    <Directory [/home/www-data/nextcloud]>
        # [ ]
        Options -MultiViews
        AllowOverride All
        Require all granted
    </Directory>

    #SSL[ ]
    SSLEngine on
    Protocols h2 http/1.1
    # SSL[ ]

    SSLCertificateFile [/etc/certs/hoge.example.com.crt]
    # SSL[ ]
    SSLCertificateKeyFile [/etc/private/hoge.example.com.key]
```

```
# [redacted]
```

```
# SSLCertificateFile /etc/certs/hoge.example.com.CA.crt
```

```
# [redacted]
```

```
# [redacted]
```

```
Header always set Strict-Transport-Security "max-age=63072000"
```

```
Header set X-Content-Type-Options "nosniff"
```

```
Header always append X-Frame-Options "SAMEORIGIN"
```

```
Header set X-XSS-Protection "1; mode=block"
```

```
</VirtualHost>
```

```
SSLProtocol          all -SSLv3 -TLSv1 -TLSv1.1 -TLSv1.2
```

```
SSLCipherSuite        ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-ECDSA-  
AES256-GCM-SHA384:EC6-GCM-SHA384
```

```
SSLHonorCipherOrder  off
```

```
SSLSessionTickets     off
```

```
SSLUseStapling On
```

```
SSLStaplingCache "shmcb:logs/ssl_stapling(32768)"
```

```
__EOF__
```

- Apache???????

```
sudo a2ensite nextcloud.conf
```

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

```
sudo apache2ctl configtest
```

Syntax OK?????

- Apache???

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

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

- ?????????

?????

http://???????

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

- ?????????????
- http?https???????



管理者アカウントを作成してください

ユーザー名

パスワード

ストレージとデータベース▼
データフォルダー

/home/www-data/nextcloud/...

データベースを設定してください

MySQL/MariaDB のみ有効です。他のデータベースタイプを選択するためには、追加の PHP モジュールインストールして有効化してください。

詳細は、ドキュメントを確認してください。 ↗

データベースのユーザー名

データベースのパスワード

データベース名

データベースのホスト名

localhost

ポート番号をホスト名とともに指定してください(例: localhost: 5432)。

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

- ????
 - ???????
- ?????
 - ???????
- ?????????
 - ???????(nextcloud)
- ?????????
 - ?????????????
- ?????
 - ???????(nextcloud)
- ?????????
 - localhost:3306
 - (MySQL?????)

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



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

おはようございます

● ステータスを設定

☀️ 天気地域設定

📁 おすすめファイル



Product plan.md



Mother's day.odt



Timesheet.ods



Simple.odp



Expense report.ods



Yellow idea.odp



Business model canvas.odg

✎️ カスタマイズ

Nextcloud????????(Gmail??)

サーバーのセキュリティとパフォーマンスにとって重要なことは、すべてが正確に設定されていることです。あなたの助けとなるよう、Nextcloudでは一部の自動チェックを行っています。詳細な情報は、リンク先のドキュメントを参照してください。

① セットアップに関して警告がいくつかあります。

Nextcloudのセキュリティは、[セキュリティスキャン](#)でチェックしてください。

????Redmine????Nextcloud????????????????????

Image not found or type unknown

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

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

- ???
 - SMTP
- ??
 - NONE/STRTLS
- ?????
 - Gmail???
- ?????
 - smtp.gmail.com
- ??
 - 587

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

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

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

- Username
 - Gmail???
- ???
 - ???????????

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

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

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

Nextcloud????????(config???redis-server????)

?????Nextcloud?????&????????????

- “
- ???
 - ???

??????????

- Ubuntu 20.04
- Apache 2.4?
- PHP8.1
- Nextcloud 27.0.2
 - 28.x????????????????????2????????

??????????

1. ??????(redis-server)????????
2. config.php????????
3. Apache??????

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

?Nextcloud 27????????????????????

- redis????

```
sudo aptitude install redis-server php8.1-redis
```

???PHP????????????????????(??????PHP????????????)

- redis????

```
systemctl status redis-server.service
```

active (running)????

- hosts??

```
cat /etc/hosts
```

????

```
127.0.1.1    localhost
```

??????????

```
127.0.0.1    localhost
```

??????Ubuntu20.04?????localhost?127.0.1.1??????????????????

????????

- ???????

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

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

- ??????

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

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

- ?????????

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

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

- ??????

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

?????????);?????????

```
'default_phone_region' => 'JP',
'memcache.local' => '\OC\Memcache\APCu',
'filelocking.enabled' => true,
'memcache.locking' => '\OC\Memcache\Redis',
'redis' =>
array (
    'host' => 'localhost',
    'port' => 6379,
```

```
'timeout' => 3,  
)
```

- ???????

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

```
+ 'default_phone_region' => 'JP',
+ 'memcache.local' => '\\OC\\Memcache\\APCu',
+ 'filelocking.enabled' => true,
+ 'memcache.locking' => '\\OC\\Memcache\\Redis',
+ 'redis' =>
+ array (
+   'host' => 'localhost',
+   'port' => 6379,
+   'timeout' => 3,
+ ),
+ );
```

Web??????

- ??????

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

```
systemctl status apache2.service
```

```
# active (running)■ ■ ■ ■ ■ ■
```

?????

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

Nextcloud??

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?????????

- ?????????

??????

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