Runbook: Upgrade nextcloud version 21.0.1 to 32.0.1 with docker

1. Turn down application.
2. Take an incremental data files backup.
3. Take database backup:
    1. nextcloud DB backup.
    2. Users backup.
    3. Run script to get required tables for the new version and get only INSERT backup (w no create/drop table).
    4. Validate backups.
4. Turn down DBMS.
5. Rename nextcloud directory (i.e. nextcloud_old).
6. Rename DB home (i.e. db_old).
7. Pull new images for DB (mariadb:11.4 and nextcloud:latest).
8. Create a copy of docker-compose.yaml.
9. Edit/Replace docker-compose.yaml with the new values.
10. Turn up DBMS and application (docker-compose).
11. Validate status (docker ps).
12. Validate new DB home and nextcloud directories exist.
13. Edit nextcloud/config/config.php. add or change:
    'upgrade.disable-web' => false,
    'installed' => false,
14. Validate localhost access in the correct port with the browser (http://localhost:8080).
15. On browser, Create a temp admin user for the application (no users previously created to avoid conflicts) and provide DB credential.
16. Validate if the database nextcloud and tables have been created (if not turn down DB and app, remove directories and, repeat step 9 – 13).
17. Take a backup for the new table oc_appconfig.
18. Take a backup only-structure for the new nextcloud database.
19. Make a dump of the new nextcloud database.
20. Run script to import all data to the database nextcloud (this include only-structure new nextcloud DB and new table oc_appconfig).
21. Validate new data on nextcloud DB.
22. Refresh browser to validate changes. (In case of an issue, validate logs and error messages. Repeat step 20 and 21).
23. Try to login in the application with a previous credential to validate access.
24. Validate data files. (In case of an issue, validate mount partition).
25. Install certificates SSL / Self-signed.
26. Activate apache2 https connection.
27. Validate access on https port 8081 (https://localhost:8081).
28. (optional) if the application works well, you can backup and remove old directories, old docker images and temp admin user directory.

-- If all the steps were applied correctly, this upgrade has been completed successfully. (ETA 3 hours)

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Rollback Plan

1. Stop application and db services (docker-compose down).
2. Remove new nextcloud and db directories.
3. Rename nextcloud_old and db_old directories to the original name.
4. Replace docker-compose.yaml with the original file before upgrade.
5. Turn up db and application services (docker-compose up).
6. Validate running process (docker ps).
7. Validate DB data (In case of an issue, import original nextcloud database).
8. Validate access through the web. (In case of an issue, modify nextcloud/config/config.php).
9. Verify data files. (if there is an issue, validate mount partition or recover data from the backup).

-- After to complete all these steps the application turn back to the original version. (ETA 1 hour)

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