

# Prod deployment

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## Warning

Most of our developers will **not** need to do these steps, so please do **not** do the steps from 'Preparing to release' and 'Release' sections. If you were directed to this page by us, it was most likely because of the 'Hotfixes' section at the bottom.

## Preparing to release

Follow these steps the evening before the deployment if possible, to save time in the morning.

1. Edit the CI build:
  1. Copy NextBuildVersion and overwrite Prod\_NextBuildVersion with its value. (Now both fields should say the same thing.)
  2. Increment NextBuildVersion, e.g. from 7.1.214 to 7.2.0 .
2. Merge `main` into `prod`, adding a `[skip ci]` to the merge commit message, since we already have a prod build that is a release candidate.  
Note: `[skip ci]` doesn't work if merge was done with a PR, but an extra build doesn't hurt.
3. Stop qa4 and qa4rnapi app services.
4. Take a full qa4 database backup, e.g. into qa4-2024-10-26-v2-7-1-213 (additionally, copy into new dispatcherqa4sprint{n} database, delete the previous {n-1} copy).
5. Start qa4 and qa4rnapi app services.

## Release

Plan to run the below steps at 3AM EST/EDT (9AM CET/CEST).

1. \*\* Stop prod2, prod2rnapi, prod2pwaapi.
2. \*\* Copy DispatcherProd2 into DispatcherProd2**old**.
3. \*\* Start prod2, prod2rnapi, prod2pwaapi.
4. Update environment variables if needed for this release.
5. Deploy (2.7.1.213) to rnapi
6. Check if rnapi startup was successful at <https://rnapi.dumptruckdispatcher.com/> .
7. Deploy (2.7.1.213) to remaining pwaapi, prod2 staging, and prod2 stages.
8. Check all 3 stages to ensure they are up and running:  
<https://rnapi.dumptruckdispatcher.com/>  
<https://pwaapi.dumptruckdispatcher.com/>  
<https://app.dumptruckdispatcher.com/>
9. \*\* Make a backup of DispatcherProd2**old** database into azure storage.
10. \*\* Delete DispatcherProd2**old** database.
11. \*\* Disable azure access to the DispatcherProd2 database.
12. \*\* Check all 3 stages to ensure they are still up and running, try accessing some data (e.g. host users):  
<https://rnapi.dumptruckdispatcher.com/>

<https://pwaapi.dumptruckdispatcher.com/>

<https://app.dumptruckdispatcher.com/>

13. Check if we need to deploy the client PWA app for this release and deploy that too if we do.

\*\* Steps marked with two asterisks can be skipped if there were no migrations in the last `main -> prod` merge that was done as part of the above steps.

## Hotfixes

Note: only the first two steps are intended for the developer, the rest are for us to do.

1. Checkout `prod` branch (and pull the latest changes if needed), create a feature branch based on that.
2. Make changes, create a PR into `prod` (not into `main`).
3. After a PR is merged into `prod`, a new build will automatically be triggered with an old (`prod` based) version.
4. Deploy the last `prod` based build to qa4.
5. If the current qa4 database is not backwards compatible with the changes:
  1. Restore qa4-old-version backup into `dispatcherqa4prod{n}` database (or use the already existing `dispatcherqa4prod{n}` db).
  2. Stop qa4 and qa4rnapi.
  3. Update connection strings to point to the `dispatcherqa4prod{n}` instead of `dispatcherqa4`.
  4. Start qa4 and qa4rnapi.
  5. DON'T change the connection string back before deploying `prod/hotfix` versions.
6. After testing is done and we need to go back to qa4 database, FIRST restore the connection strings (from `dispatcherqa4prod{n}` to `dispatcherqa4`), THEN deploy the latest `main` based build / any `main` based build. In other words, never run qa4/qa4rnapi containing a `main` based build while the connection is set to `prod` based `dispatcherqa4prod{n}` database. Vice versa is fine ( `prod` build accessing newer `main` database).
7. Deploy hotfix to `prod`.

## Midday deployments

If we need a mid day deployment again, we can add two more slots (for pwaapi and rnapi), modify a single release so that rnapi and pwaapi release stages don't stop any app services and deploy to the new deployment slot rather than default production slot, and then we can manually gradually change the traffic percent.