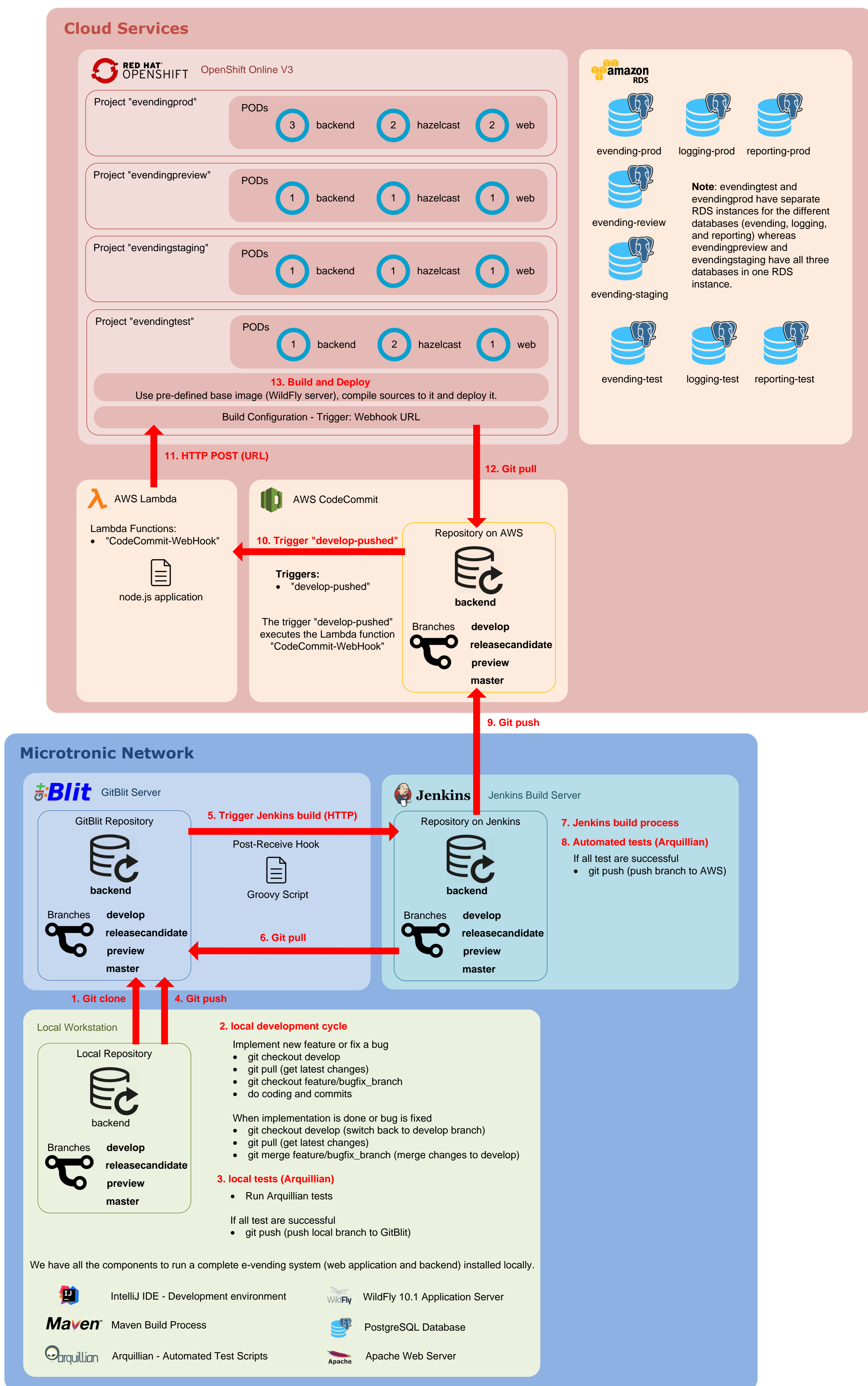


e-vending - Build and Deployment Process



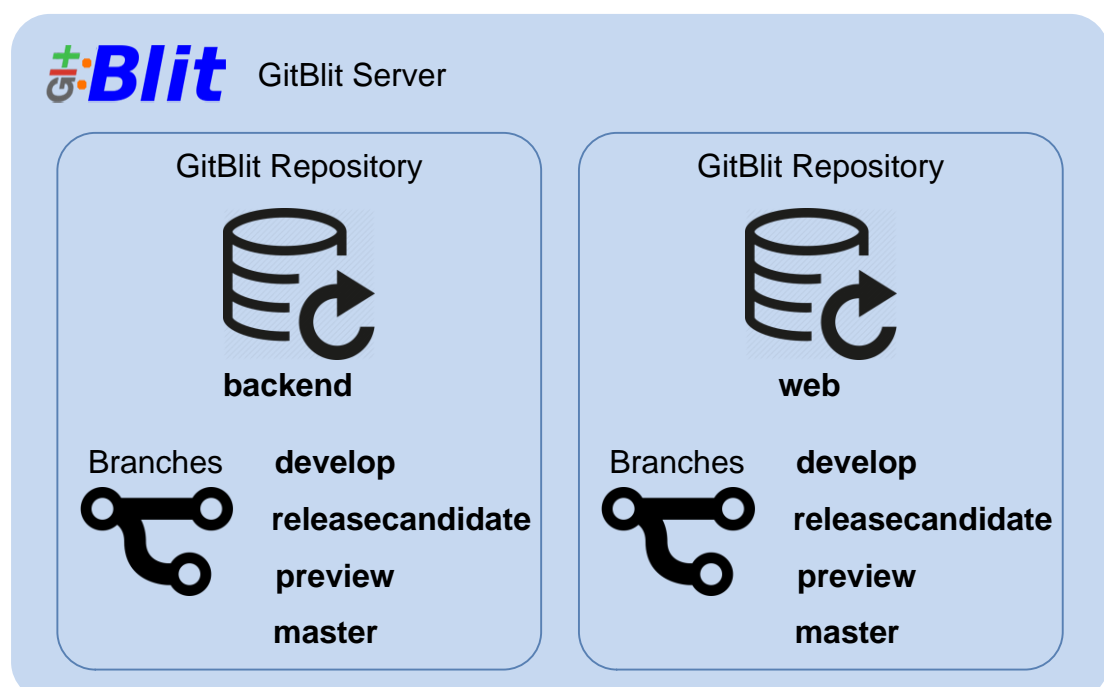
Notes:

The build and deployment process is shown for the **develop** branch, which will deploy to the **evendingtest** system.
The **branch** that is pushed **determines the system** to deploy to:

- A push of the **develop** branch will build and deploy to **evendingtest**
- A push of the **releasecandidate** branch will build and deploy to **evendingstaging**
- A push of the **preview** branch will build and deploy to **evendingpreview**
- A push of the **master** branch will build and deploy to **evendingprod**

The build and deployment process is shown for the **backend** software (repository "**backend**").

The process for the **web application** is basically the same, however it uses the repository "**web**", which contains the sources for the web application.



The purpose of the different branches in the repository is the following:

- The **develop** branch is used for development. Developers create their branches to implement new features or fix bugs from this branch (git checkout new). They can merge their new features or bug fixes to the develop branch whenever they want and they can push the develop branch when all local tests have passed.
There is a nightly build running on this branch to assure that the branch is always building and is not blocked by any bugs.
- The **releasecandidate** branch is used to prepare releases to the productive systems.
Once there is a decision to release a software, the **development branch is merged to the releasecandidate branch** and the releasecandidate branch is then pushed to start build and deployment of the **evendingstaging** system.
This build will also run all the Arquillian tests on Jenkins.
After a successful deployment to the staging system we **manually test the database migration** of both, the preview system and the productive system. We do this by copying the data of the preview database to the staging system and re-starting the server.
Then we copy the data of the productive database to the staging system and re-start the server.
- When the migration tests are successfully completed on the staging system, we are ready to deploy to the productive systems:
 - merge the releasecandidate branch to the preview** branch and push the preview branch to deploy to **evendingpreview**
 - merge the releasecandidate branch to the master** branch and push the master branch to deploy to **evendingprod**

Note: On both of these builds the Arquillian tests are NOT executed again. The builds just build the software and deploy it to the appropriate system.