# Automatic Deployment in your own Cloud
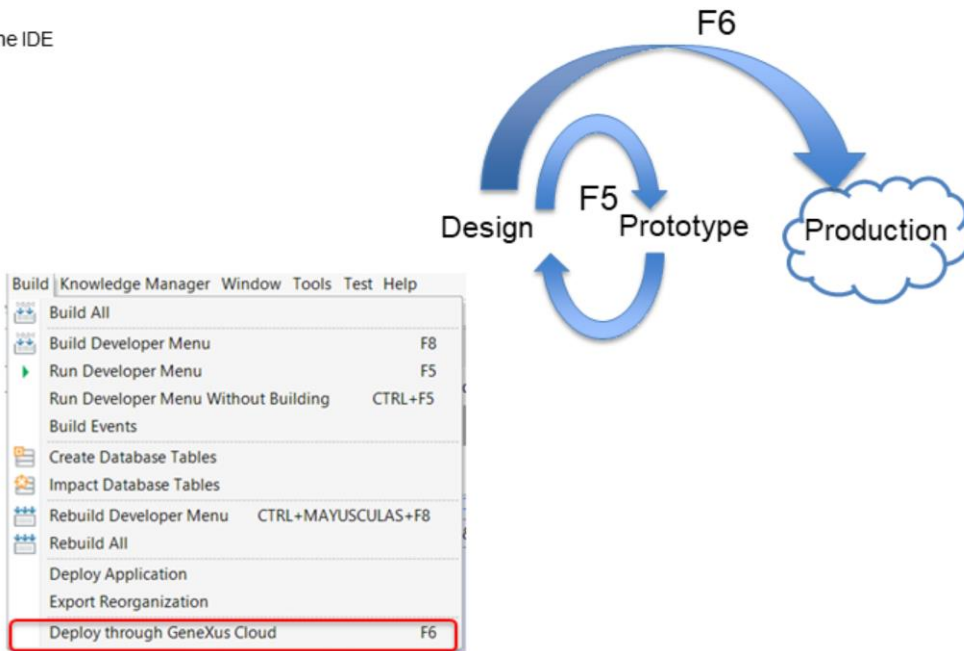
More about using F6 for deployment
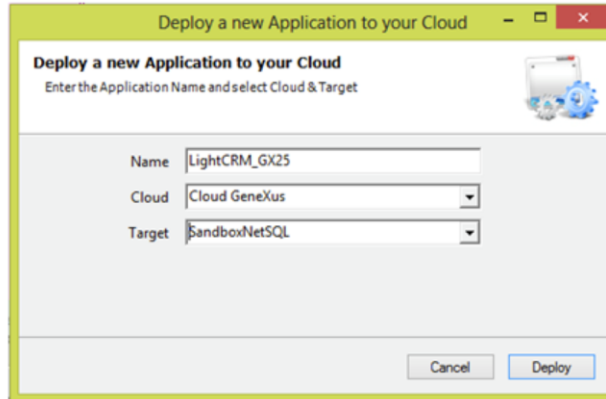
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In the introduction to the topic, we saw that the GeneXus IDE provides a tool to deploy our app to our cloud, where a production environment has been set up.

Entering credentials to access the production environment:



The first time you press F6 to deploy to the cloud, you need to enter your credentials and a name for the application, as well as select the cloud to deploy to and the environment that has been previously set up.
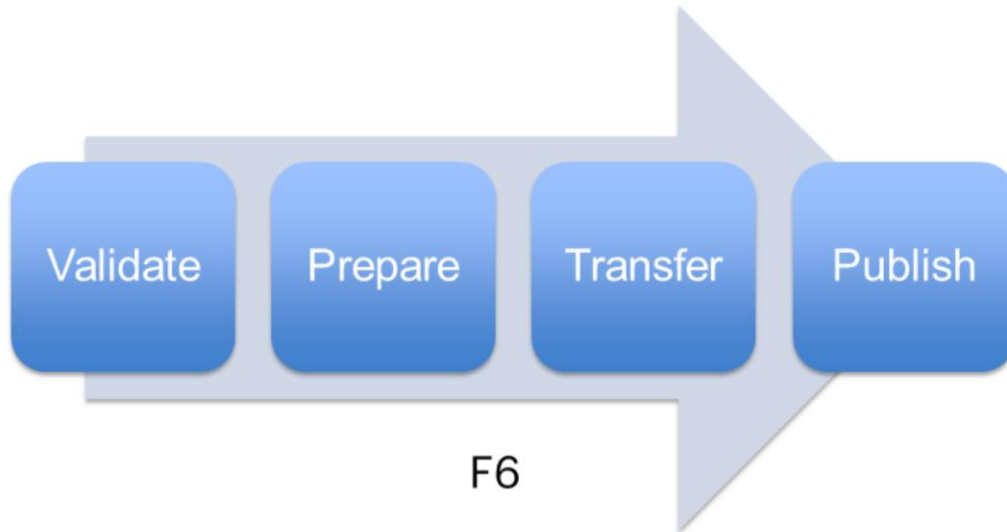
Deployment result:

Output

Show: Deploy

Main> Checking instances status
Main> Checking instances status ended
Services> Setting up application to production
Services> Ready to deploy application
Services> Deploying services layer to the cloud
Services> Deploying to instance 'Softlayer001'
Services> Installation successfully deployed to all instances
Main> Setting up application to production
Main> Ready to deploy application
Main> Deploying to the cloud
Main> Deploying to instance 'Softlayer001'
Main> Installation successfully deployed to all instances
Services> Success
Main> Success
LightCMR_GX25 has been deployed successfully to http://cloudmanager/Services/ (Manage, Main, Services)

By clicking on Deploy in the previous window, GeneXus publishes the app. At the end of the process, the output window will show the URL to manage what has been published and the app URL.

Deployment stages:

- F6



By pressing on F6, several stages are carried out.

First, the local environment is checked for compatibility with the production environment; next, a package is prepared with everything that must go to the production server, and finally it is transferred to the cloud and published.

Important notes:

- Before reorganizing: Backup <optional>
- If something fails: Revert
- Compatibility of services
- Maximize application uptime

More information:
https://wiki.genexus.com/commwiki/servlet/wiki?28935

This is done with several controls, taking into account that the deployed application should always be available for execution.

Some examples of such considerations are as follows: before reorganizing, GeneXus Cloud allows making a backup. Should a failure occur, GeneXus Cloud restores the previous version that was active until that moment; that is to say, the latest changes made are reverted. This means that an interrupted deployment or an intermediate version that doesn't work is never left in production, which would cause the site to crash.

It is very important to ensure the compatibility of services. We could have published services, for example when we develop a mobile application or when there are third-party solutions consuming those services. In scenarios like this, maintaining service compatibility is essential.
GeneXus Cloud ensures this compatibility by keeping previous versions of the services and publishing new versions to a new URL.

If one of the stages fails, the deployed version will not be replaced; also, the availability of a valid version is prioritized, so that the deployed system is always running.

For more information about automatic deployment with F6, click on this wiki link:

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