



# Azure DevOps\_CICD: Documentation

| Term                   | Definition or instruction...  |
|------------------------|---|
| <b>Requirement</b>     | <ul style="list-style-type: none"><li>--knowleg in dev lifecycle and builds-releases</li><li>-- <u>Azure DevOps subscription (free)</u></li><li>-- Azure account (free trial with credit cart)</li></ul>  |
| <b>Description</b>     | <p><b>THE GOAL IS GET THE PODUCT TO THE MARKET FASTER (that's what it's all about)</b></p> <ul style="list-style-type: none"><li>-- union of peoples, process, products to enable continuous delivery of value for the end client (microsoft_deffinition)</li><li>-- Right people in place</li><li>--products(tools) important but can't achive devops success</li><li>--software deployment should be fluid</li><li>--Increase quality by integrated unit tests (low level)</li></ul>  |
| <b>Azure pipelines</b> | <p>Release pipelines: end to end release pipeline for app to be deployed</p> <hr/> <p>Languages: can work with many: python, java, go, php, c# ...</p> <p>Version control sys: Azure Repos, GitHub, Bitbucket ...</p> <p>Application types can deploy: .net, java, JS, php, ios...</p> <p>Deployment targets: -- container registries, VM, Azure services ...</p> <p>--Package formats (NuGet, npm, Maven, ...)</p>   |
| <b>Stages</b>          | <p><b>Where to deploy a release</b></p> <ul style="list-style-type: none"><li>--Logical entity that represents (Dev, Qa, Pre-Prod, Prod)</li><li>--independent deployment for each stage</li><li>--Application database and web tiers should be as a single stage</li></ul>   |
| <b>Tasks</b>           | <ul style="list-style-type: none"><li>--Building blocks for def automation in release</li><li>--Packaged scripts or procedures</li><li>--Can be versioned (expl in vs marketplace)</li><li>--Create stage then inside it create tasks</li></ul> <div><pre>graph TD     subgraph Stage         direction LR         T1[Get Sources from Version Control]         T2[Infrastructure Deployment]         T3[Web Application Deployment]     end     T1 --&gt; Tasks     T2 --&gt; Tasks     T3 --&gt; Tasks     Tasks[Tasks]</pre></div> |



## Releases

Package or container that holds a versioned set of artifacts specified in a release pipeline.

-Create a release can trigger deployment (running the tasks for the stage)

## lazyLoading

C'est une technique moderne permettant de charger du code applicatif lorsque celui-ci sera sollicité, plutôt que

### Code Example

```
ng new App --routing --style=scss
cd App
ng g m ./myModule1 --route myModule1 --module app.module
-----output-----
ng g c ./myModule1/component1 --module myModule1
```