

Installation

Install Kubernetes Windows (Install Chocolatey First Included)

- Open PowerShell in ADMIN Mode (Mandatory)
 - Run the following (Install Chocolatey):
 - Set-ExecutionPolicy Bypass -Scope Process -Force;
[System.Net.ServicePointManager]::SecurityProtocol =
[System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object
System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))
 - Installs Chocolatey - Windows installer on cmd
 - choco install minikube
 - Installs kubernetes client
 - minikube start --driver=docker
 - Defines driver for minikube
 - choco install kubernetes-cli
 - Installs kubernetes-cli
 - kubectl version --client
 - (Verifies version of kubectl)
 - Install Lens IDE:
 - <https://k8slens.dev/>
 - Login with account (nm.beites)
- Create or import config to this folder C:\Users\nunob\.kube (default path on windows)
 - New clean config in minikube (default config with minikube installation (config file already there))
 - Run in powershell or lens terminal
 - minikube stop
minikube delete
 - minikube start --nodes 2 --cpus 4 --memory 8192 --disk-size 60g --driver=docker
minikube node add --cpus=2 --memory=4096 --disk-size=30g
 - Sometimes depending on machine specifications of cpu and ram etc, deleting PV even after deleting PVC can give some problems. This configuration works in a 5700X Ryzen and 32Gb of RAM
 - kubectl create namespace local-namespace

- (1 control node and 2 slave nodes) - This command creates automatically new config file inside .kube
- **minikube status (VERY IMPORTANT)**
 - **If not running : minikube start**
 - **EVERYTIME THAT PC STARTS, THIS COMMAND HAS TO BE RUN IN POWERSHEEL IN ADMIN MODE**
- Exposing Minikube to an External IP (Might solve some issues connection Lens to localhost minikube and from services to the outside)
 - minikube tunnel
- Access minikube host environment:
 - minikube ssh