# HOMEWORK SUBJECTS

* **Task #1: some git operations**
  + please see task01.pdf
* **Task #2: CI 101 -manual CI**
  + Sub-task 2.1: **maven based build**
    - desc: we will perform step by step a maven build (for java\scala applications)
    - please see task2-1.md
    - the output will be a bash script, **mvn-build.sh**
  + Sub-task 2.2: **MSbuild based build**
    - desc: we will perform step by step a MSbuild build (for .NET applications)
    - please see task2-2.md
    - the output will be a bash script, **msbuild-build.bat**
  + Sub-task 2.3: **NPM based build**
    - desc: we will perform step by step a node build (for node.js applications)
    - please see task2-5.md
    - the output will be a bash script, **npm-build.sh**
  + Sub-task 2.4: **GO based build**
    - desc: we will perform step by step a node build (for node.js applications)
    - please see task2-4.md
    - the output will be a bash script, **golang-build.sh**
  + Sub-task 2.5: **make based build**
    - desc: we will get familer with the make\makefile build framework
    - please see task2-5.md
    - the output will be a bash script, **Makefile**
* **Task #3: designing the DevOps infrastructure**
  + desc: we will perform step by step a MSbuild build (for .NET applications)
  + please see task3.md
  + the output will be following files:

# EVALUATION BOARD

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EVALUATION BOARD** | | | | |
| **TASK** | **SUBTASK** | **SUBJECT COVERS** | **POSSIBLE SCORE** | **ACTUAL SCORE** |
| **TASK 1: git practice** | | **Not scored** | | |
|  |  |  |  |  |
| **TASK 2: CI 102 – build frameworks** | |  | **45%** |  |
|  | ***2.1: maven build*** | maven | ***7%*** |  |
| ***2.2: Msbuild build*** |  | ***7%*** |  |
| ***2.3: NPM build*** |  | ***7%*** |  |
| ***2.4: GO build*** |  | ***7%*** |  |
| ***2.5: makefile build*** | Bash scripts, | ***7%*** |  |
|  |  |  |  |  |
|  | ***Proper shell\bash scripts*** |  | ***5%*** |  |
|  | ***Using proper scripts variables*** |  | ***3%*** |  |
|  | ***Using proper functions*** |  | ***2%*** |  |
| **TASK 3: DevOps Infra** | |  | **45%** |  |
|  | ***3.1: planning*** |  | ***9%*** |  |
| ***3.2: vagrant system design*** |  | ***9%*** |  |
| ***3.3 user data script writing*** |  | ***9%*** |  |
| ***3.4 files are exist*** |  | ***9%*** |  |
|  |  |  |  |  |
|  |  |  |  |  |
| **Other stuff:** | | | **10 %** |  |
|  | ***Proper delivery (using template, proper readme.md files)*** |  | ***5%*** |  |
|  | ***Delivery on time*** |  | ***5%*** |  |
| **TOTAL:** | | | **100%** |  |
|  | | | **100%** |  |

# FILE LIST CHECKLIST

|  |
| --- |
| ├── hw-02-stracture  │   ├── task01 \*\*(leave empty)\*\*  │   ├── task02  │   │   ├── Makefile \*\*(Sub-task 2.5 result)\*\*  │   │   ├── golang-build.sh \*\*(Sub-task 2.4 result)\*\*  │   │   ├── msbuild-build.bat \*\*(Sub-task 2.2 result)\*\*  │   │   ├── mvn-build.sh \*\*(Sub-task 2.1 result)\*\*  │   │   └── npm-build.sh \*\*(Sub-task 2.3 result)\*\*  │   └── task03 \*\*(task #3)\*\*  │   ├── config  │   │   └── hosts \*\*(hosts config file)\*\*  │   ├── documantaion  │   │   ├── diagram.png \*\*(digram image, generated by draw.io)\*\*  │   │   └── diagram.xml \*\*(diagram xml file, result from draw.io)\*\*  │   ├── machines-user-data  │   │   ├── artifactory.sh \*\*(user data of the artifact server)\*\*  │   │   ├── buildnode.sh \*\*(user data of the build node)\*\*  │   │   ├── common.sh \*\*(common user data)\*\*  │   │   └── gitserver.sh \*\*(user data of the artifact server)\*\*  │   ├── readme.md \*\*(readme file, describes the solutions and instactions)\*\*  │   └── vagrantfile \*\*(the vagrant file)\*\* |

TASKS:

## HOMEWORK FILES:

### TASK 1:

### TASK 2:

#### Subtask1:

|  |  |  |  |
| --- | --- | --- | --- |
| SCRIPT FILENAME: |  | SCORE |  |
|  | | | |

#### Sub-task 2:

|  |  |  |  |
| --- | --- | --- | --- |
| SCRIPT FILENAME: |  | SCORE |  |
|  | | | |

#### Sub-task 3:

|  |  |  |  |
| --- | --- | --- | --- |
| SCRIPT FILENAME: |  | SCORE |  |
|  | | | |

#### Sub-task 4:

|  |  |  |  |
| --- | --- | --- | --- |
| SCRIPT FILENAME: |  | SCORE |  |
|  | | | |

#### Sub-task 5:

|  |  |  |  |
| --- | --- | --- | --- |
| SCRIPT FILENAME: |  | SCORE |  |
|  | | | |

subtask2:

### TASK 3: