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|  | **Devops** | **aws** |
| **Code** | Git | Code commit |
| **Build** | * NPM (Javascript) * Maven(Jave) (via jenkins) | * NPM (Javascript) * Docker command to build docker file ( Dotnet ) |
| **Artifacts** | * Build files – Nexus * Artifact - Nexus | * Build files - Code Artifact * Docker images – ECR (Elastic Container Registry) |
| **deployment** | Target server | * Build Files – S3 (bucket) * Docker Images - ECS (Elastic container service)   (target machines are connected to ECS) |
|  | Deploying the build file & artifact | Deploying the build file & image |
|  |  |  |

**Aws**

* Docker file – present in code commit
* Docker file 🡪 build (cmnd to run docker build) –> docker image
* Docker image -> run -> container

**AWS DEPLOYMENT**

|  |  |  |
| --- | --- | --- |
|  | **Front end** | **backend** |
| **Code** | Code commit | Code commit |
| **Build** | * NPM (Javascript)   Node package manager  (codebuild) | * Docker command to build docker file ( Dotnet file) |
| **Artifacts** | * Build files - Code Artifact   (Pushing from code build or s3 directly) | * Docker Images - ECS (Elastic container service) |
| **deployment** | * Build Files – S3 (bucket)   Deployment is done in S3 | * Docker images builds in ECR (Elastic Container Registry)   (target machines are connected to ECS) |
|  | Deploying the build file & artifact | Deploying the build file & image |

1. **Buildspec.yaml** (like pipeline script) – to do the deployment via aws
2. **Buildspec.yaml** – placed in the code commit (source code present here along with this buildspec.yaml will be added) – written by Cloud person

**Frontend**

1. **Pre-build** -> installing npm
2. **Build** -> building the code using NPM with the help of cmnd – ‘ npm run build ‘
3. **Post-Build** -> copying the build file to S3 bucket

**Backend**

* **Pre-requisite** – dockerfile present in code commit – written by developers -> Name – ‘**Dockerfile’**

1. **Pre-build** -> Logging to ECR & Code Artifact
2. **Build** -> Building the dockerfile (Dockerfile) using docker build command -> Result ----🡪 docker image will created
3. **Post-Build**
4. Pushing the docker image to ECR
5. Deploying the Docker image to ECS (under cluster & specific service)



