**DevOps DEPI Project Documentation**

**General Information**

1. **Project Name**: Devops.
2. **Team Members**:
   1. **Mohamed khairy**.
   2. **Amira**
   3. **Sara**
   4. **Abdelrahman**
   5. **Mariam**
3. **Deadline**: 23/10/2024

**Week 1: Initial Setup & Planning**

1. **Jenkins Server Details**:
   * **Server IP/Hostname**: The address where Jenkins will be installed.
   * **Admin Credentials**:
     1. **Username**: admin
     2. **Password**: Password
2. **Docker Configuration**:
   * **Docker Hub Username**: mohamedmousa91
   * **Repository Name**: mohamedmousa91/nodejs-iamge
3. **Ansible Configuration**:
   * **Inventory File**: https://github.com/mahamdkhairy/depi\_devops/blob/master/Ansible/hosts
   * **Playbook File**: https://github.com/mahamdkhairy/depi\_devops/blob/master/Ansible/playbook.yml
4. **CI/CD Pipeline Plan**:
   * **Pipeline Stages**:
     1. **SCM Checkout**
     2. **Test**
     3. **Build and deploy**
   * **Tools and Technologies**:
     1. **Jenkins**
     2. **Docker**
     3. **Ansible**

**Week 2: Jenkins & CI Integration**

1. **Git Repository**:
   * **Repository URL**: https://github.com/mahamdkhairy/depi\_devops.git
   * **Branch Names**: master
2. **Jenkins Job Names**:
   * **Jenkins** http://3.143.226.239:8080/
   * **Build Job**: <http://3.143.226.239:8080/job/pipeline-1/>

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1. **Notification Settings**:
   * **Email/Slack**: two notifications are sent , one after test , one after whole pipeline finishes.

**Week 3: Docker & Deployment**

1. **Docker Image Details**:
   * **Image Name**: nodejs-iamge
   * **Tagging Convention**: each build in Jenkins will create an image with tag= v1.(build number)
2. **Deployment Environment**:
   * **Cloud Provider**: AWS
   * **Server Details**: http://13.59.53.222:3000/
3. **Ansible Playbook Variables**:
   * **Application Ports**: 3000
   * **Environment Variables**: defaults

**Week 4: CI/CD Refinement & Final Testing**

1. **Kubernetes Configuration (Optional)**:
   * **Cluster Details**: Information about your Kubernetes cluster.
   * **Deployment Names**: Names for your Kubernetes deployments.
2. **Pipeline Optimization**:
   * **Parallel Stages**: in progress
   * **Caching Strategies**: in progress