Devops Pipelines:

1. **Explain what the devops pipeline was all about**

DevOps is the intersection of Development and Operations.Help develop and operate long term work.Where ci is continuous integration, code can be frequently integrated into the main branch.CDS are continuously deployed, automatically deployed to production after we've developed the code.We used azure to automatically build and test our project code and make it available to other users

1. **Explain the key technical learnings from this deliverable**

Key technical points:

Windows Azure

o Cloud-based operating system

o Platforms that support interoperability

Nginx

o High-performance HTTP and reverse proxy web server

o Lightweight

Docker

o Open source application container engine

o Portability

Kubernetes

o Simplify application deployment

o Automatic expansion and reduction

Azure DevOps Pipeline

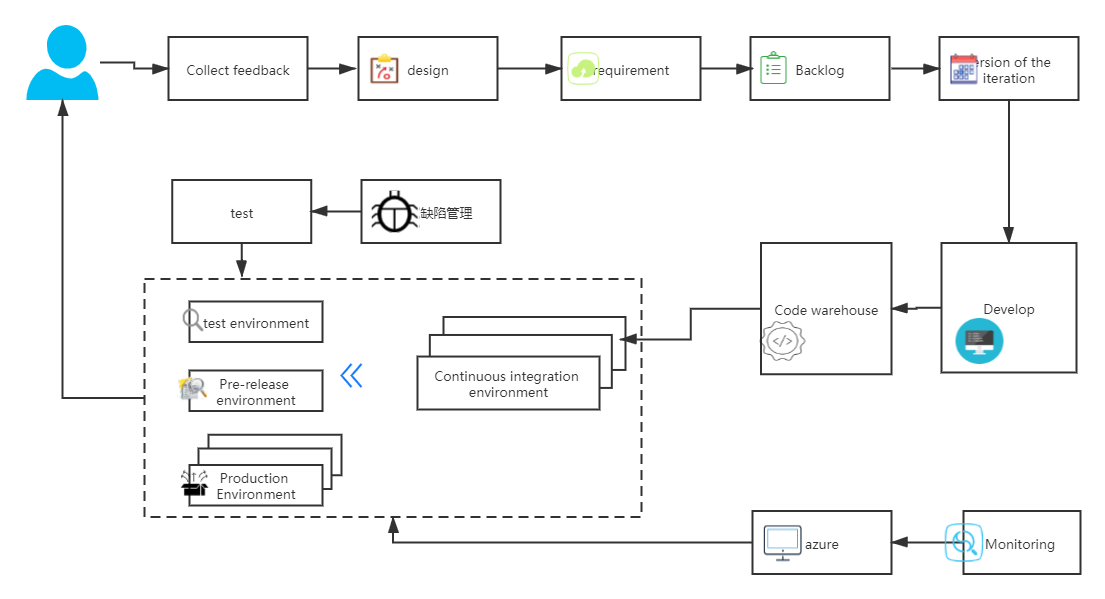
Free for open source projects

The project will host the project code through github, use docker hub to host image, create azure cloud server, install docker, kubernates, kubernates dashboard UI and other tools in the server.Then create the azure devops pipeline to complete the CI/CD deployment.

1. **Explain the limitations of our deliverable (currently no automated testing is implemented, and kubernetes or alternative scaling is not included it is only R&D it is not included in our actual devops pipelines)**

We now implement CI but not CD.First, we have completed the continuous integration deployment, but there are still some problems with automatic deployment.Some tooling configuration and deployment is required in kubernates.The nodes of the project still need to be deployed, and we need to set up the nodes according to the specific requirements of the project.You might need to use auto scaling in a project because the standby node is not configured yet so it is not configured.(automatic scaling of the container is the automatic selection of nodes based on the running status of the project).So now the snag in devops deployment is that the nodes are not set up properly.

1. **Include any diagrams**

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