Register No: 21L31A0503 Experiment No: 1 Date:

S. No	Component	Max. Marks	Marks Secured
1	Preparedness	2	
2	Viva-Voce	2	
3	Experiment	3	
4	Analysis & Record	3	
Total		10	
Date		Signature of the Lab teacher	

AIM: To understand the Concept of Devops with related technologies which are used to code, Build, Test, Configure & monitor the software applications.

Devops: Devops is the combination of practices and tools designs to increase an organizations ability to deliver applications and services further than traditional software development processes. This Speed enables the better serve their customers and Complete more effictively in the market. Devops is about removing the barrier between traditionally siloed teams, development and operations

Under a Devops model, development and operations team work together across the entire software application life Cycle, from development test through deployment to operations.

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1. Build :
The usage of cloud sharing of resources comes into the picture and the build is dependent upon the user need which is a mechanism to control the usage of resources (or) Capacity.

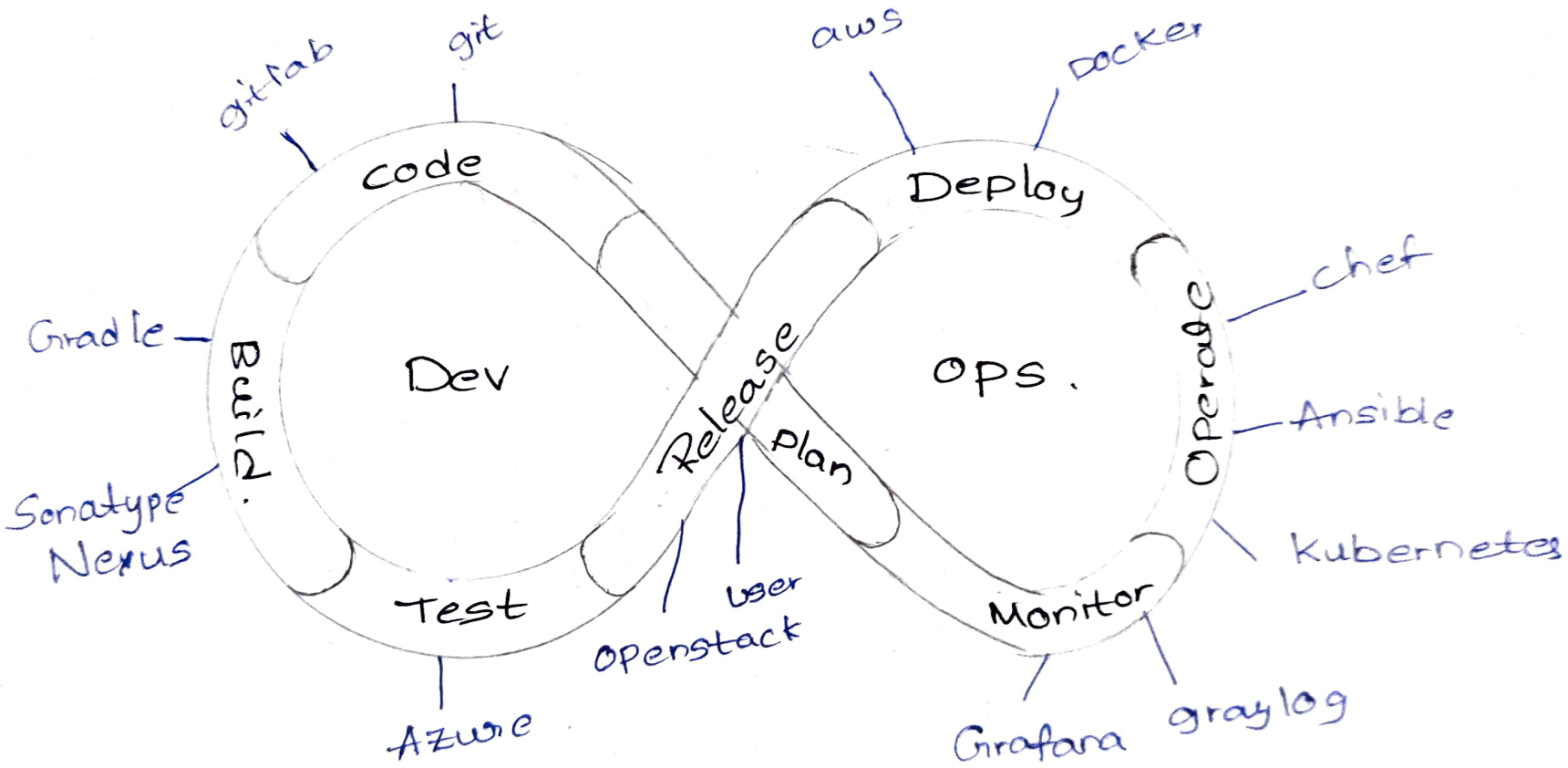
Technologies: . Git . Gradle
. Gitlab . Sonatype Nexus.

2. Code :
Many good pactices such as git enables the code to be used, which ensures writing the code for business, helps to track changes, getting notified about the nexon behind the difference in the actual and expected output and if necessary neventing to the original code developed.

Technologies: . Git
. Gitlab

3. Test :
The application will be ready for the production after testing. In the case of manual testing it consumes time and the code to the output. Production can be reduced as automatic the running of the scripts with many manual steps.

Technologies: . Azure
. Selenium.


gitlab
git
code
Gradle
Build
Sonatype Nexus
Dev
Test
Azure
Release
Plan
User
Openstack
aws
Docker
Deploy
Operate
chef
Ansible
Kubernetes
Ops.
Monitor
Grafana
graylog

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4. plan : Devops use agile methodologies to plan the development with the appt operations and development team in sync, it helps in organizing the work to plan accordingly.

Technologies :
- Open stack
- Jenkins.

5. Monitor : Continuous monitoring is used to identify the Mik (or) failure, Also it helps in tracking the System accurately so that th heath of the application can be checked.

Technologies :
- Grafana
- Graylog.

6. Deploy : Many systems can support the schedules for automated deployment. The cloud management platform enables enswes to Capture accurates insights and view the optimization Scenario of dashboards.

Technologies :
- aws
- Docker.

7. Operate : changes the way traditional approach of developing and testing separetly. The teams operate in a Collaborating way where both the teams actively participate throughout the service life cycle.

Technologies :
- chef
- Ansible
- kubernetes.

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8. Release:

Release management commonly used to do the deployment in the production environment manually to lesser the impact on the customers.

Technologies : • Jenkins.