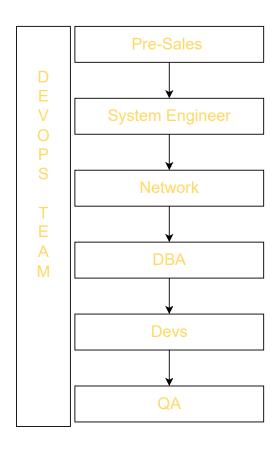
What is Devops?

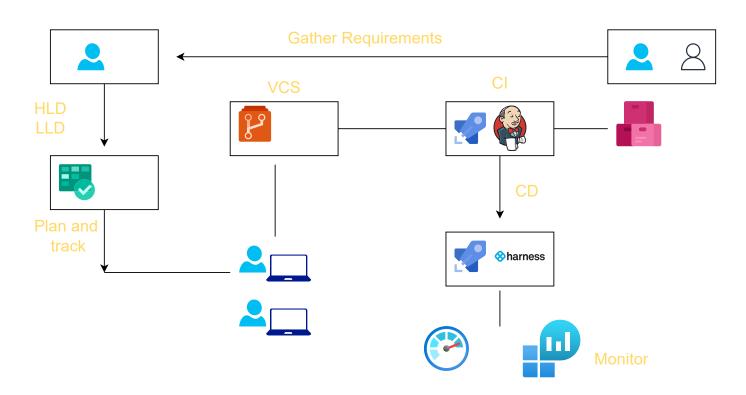
- 1. faster releases
- 2. Quality and efficiently
- 3. Continuous Improvement

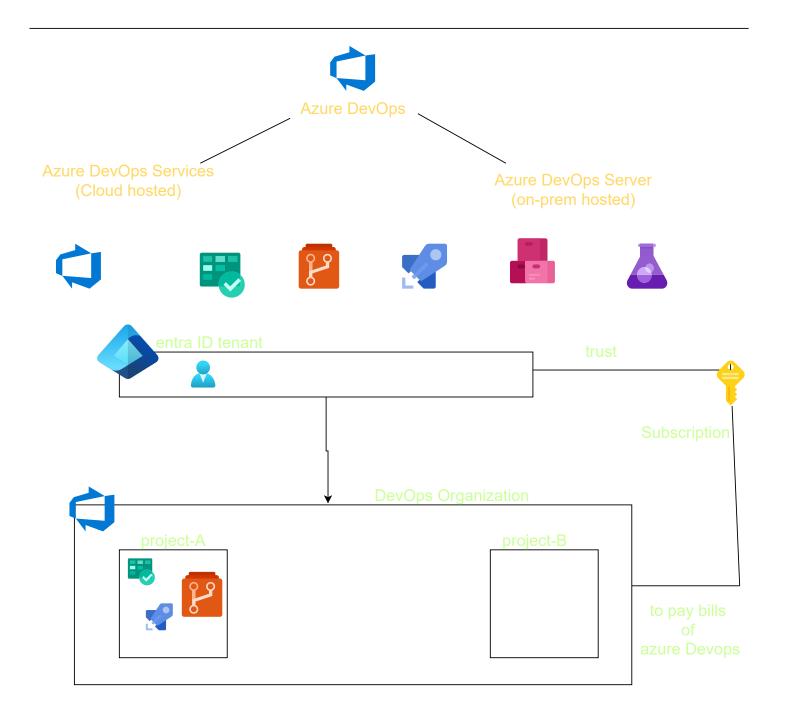
People, Process and Products

We cannot buy or Sell DevOps build it



SDLC (software Dev Lifecycle)





Access Level in DevOps: What can you see

All users in Azure DevOps belong to one or more default security groups.

Security groups get assigned
permissions that either Allow or Deny access to features or tasks.

Product management is an organizational function that guides
every step of a product's
lifecycle — from development to positioning and pricing
by focusing on the product and its customers first and foremost.

Running the scrum calls, creating those user stories ==> Scrum Masters

- Use Agile when you need flexibility and can afford to adapt to change constantly.
- Use Scrum when you need a more structured, time-boxed approach with specific roles and regular feedback loops.



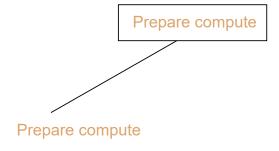
Anything you create inside azuree boards ==> work item example: task, epic, bug etc

wrong work item process type. No problem. You can change it after creation.

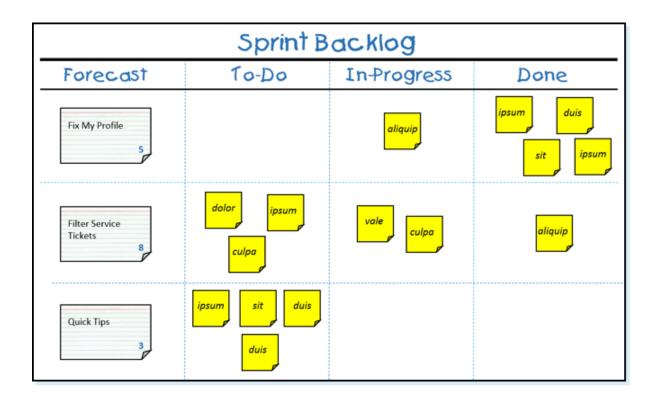
Select Work item Process type a, change it after creation (possible)

Game Development:

- 1. Game Character
 - 2. Game Story
- 3. Create Animation
- 4. prepare compute
- 5. Prepare Networking database 6.



What is a product backlog? A product backlog is a prioritized list of work for the development team that is derived from the product roadmap and its requirements. The most important items are shown at the top of the product backlog so the team knows what to deliver first



A kanban board is an agile project management tool designed to help visualize work, limit work-in-progress, and maximize efficiency (or flow). It can help both agile and DevOps teams establish order in their daily work.

Collection of work item is called as Area

sprint backlogs

Team - group of people having common work items

sprint backlogs

sprint backlogs

Task if you have to perform in your entire graduation Product backlogs A burndown chart is a graph that represents the work left to do versus the time it takes to complete it. It can be especially useful for teams working in sprints, as it can effectively show whether your deadlines are able to be met along the way.

https://learn.microsoft.com/en-us/azure/devops/boards/work-items/guidance/media/alm pt wits testexperience.png?view=azure-devops



Frontend - ReactJS, ExpressJS, HTML, CSS, Kotlin, Swift

Backend - Python, Java, Node

Database: MongoDB, MySQL

Terraform, Ansible, Bash

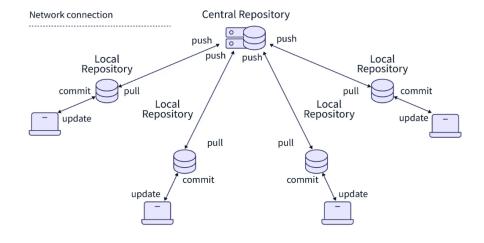
Dockerfiles, K8s manifests

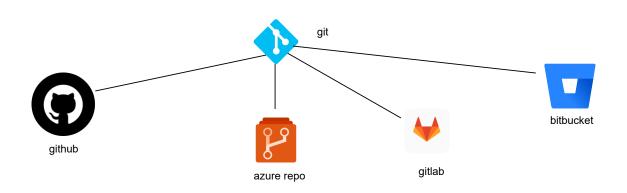
1. Central Place
2. avoid conflicts
3. version control

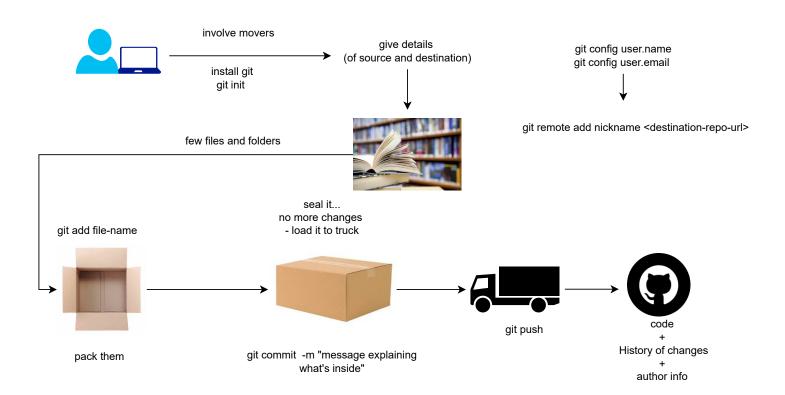
Version control system (VCS)
aka
SCM (source code management)

git: distributed VCS

A distributed version control system (DVCS) brings a local copy of the complete repository to every team member's computer, so they can commit, branch, and merge locally. The server doesn't have to store a physical file for each branch — it just needs the differences between each commit.

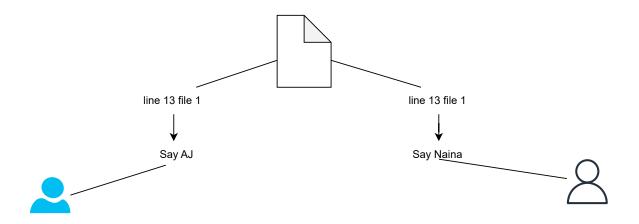


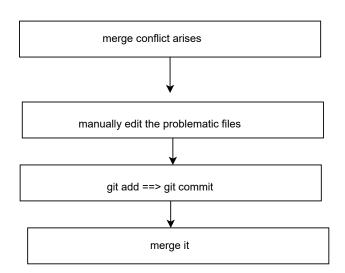






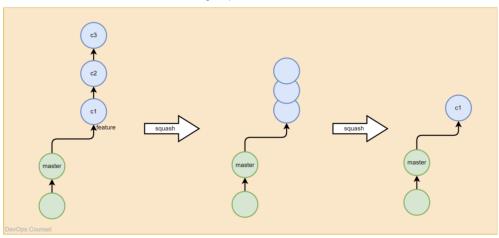
two different people try to make change on the same line of the same file. ==> Merge Conflicts



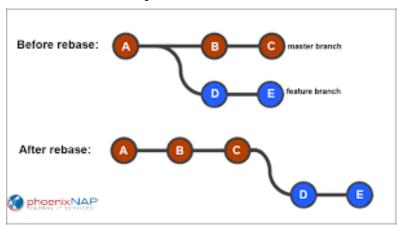


```
<<<<< chnage2-user2
bucket = "AJ-the-user-tfstate"
key = "test/test.tfstate"
region = "us-east-1"
# use_lockfile = true
dynamodb_table = "mumbai-dynamodb"
======
bucket = "tokyo-dev-env-tfstate"
key = "test/tokyo.tfstate"
region = "ap-northeast-1"
use_lockfile = true
dynamodb_table = "tokyo-dynamodb-table"
>>>>> chnage1-user1
```

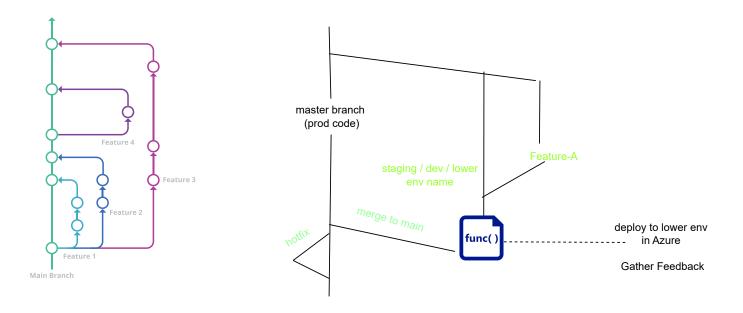
git squash

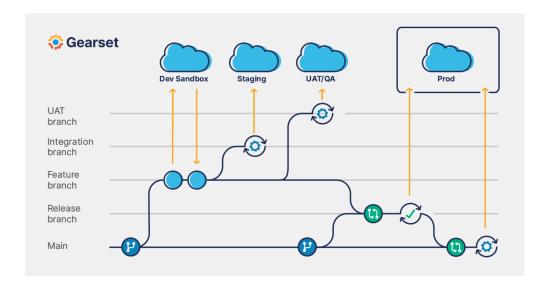


git rebase



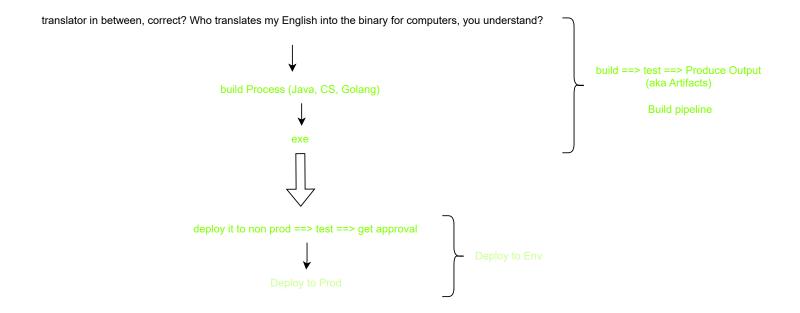
git merge commit

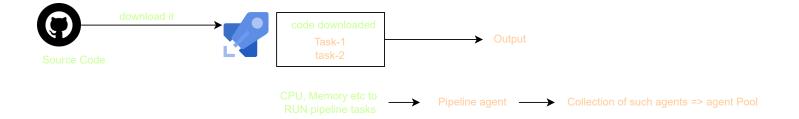






specific event occurs ==> run this template





##[error]No hosted parallelism has been purchased or granted. To request a free parallelism grant, please fill out the following form https://aka.ms/azpipelines-parallelism-request



Attach billing and purchase paid parallel job fir pipeline