

Git Guidelines

Bank Syariah Indonesia – SuperApp Microservices
Version 1.0.0
20221222

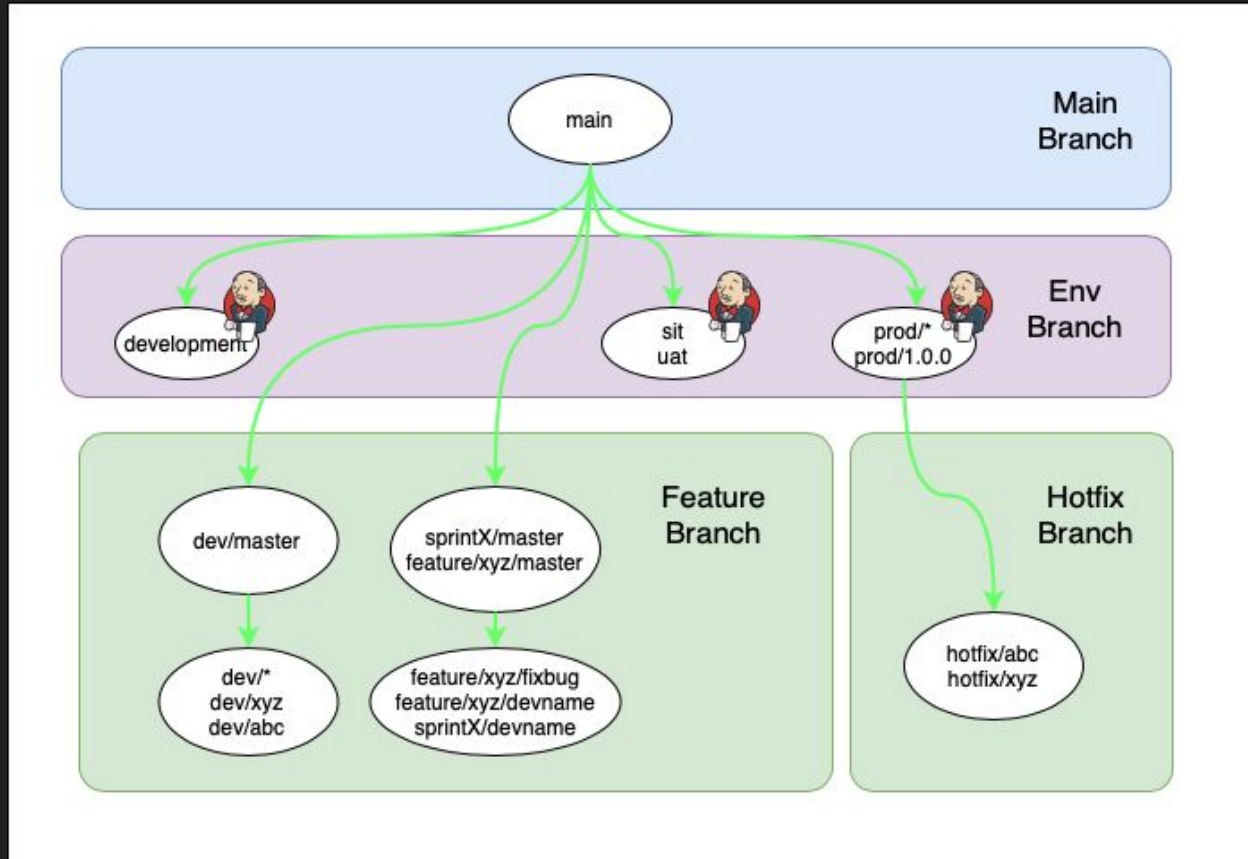
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Definition

Stable	Condition code is tested/proven in development, sit, uat.
Hotfix	Create a code that needs to be deployed asap to prod (special condition/exception)
CD	Continuous Delivery
*	Can be any name for a sub folder branch
/	Folder branch

Branch Types – Example Tree Branch



Branch Type – Main Branch

Definition	Branch to maintain Code Version as single source of truth to product being developed.
Protected	Yes
Stable	Yes
Parent Branch	None
Child Branch	feature/*, development/*, hotfix/*, environment/*
Tags	Yes
Merge	Pull Request
Delete-recreate	No

Branch Type – Environment(devgcp, sit, uat, prod/*)

Definition	Branch that will be used as deployment to environment (CD)
Protected	No(except prod, prod/*)
Stable	No(except prod, prod/*)
Parent Branch	Main
Child Branch	None(except prod - ex:hotfix)
Tags	None
Merge	None
Delete-reCreate	Yes(except prod - only Create : ex prod/x.y.z)

Branch Type – Feature(feature/*, dev/*, sprint/*)

Definition	Duration Based branch for specific development/changes, should be deleted after merged with Main(stable - after proven)
Protected	No
Stable	No
Parent Branch	Main
Child Branch	dev/*, feature/sprintX/*
Tags	None
Merge	None

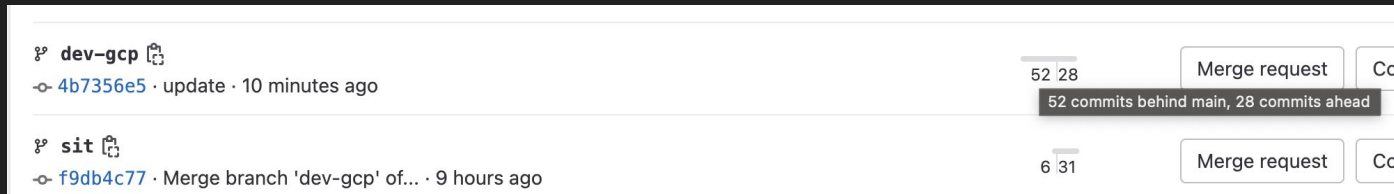
Branch Type – Hotfix(hotfix/*)

Definition	Short term branch for urgent or time sensitive changes to production environment. Should be deleted after merged with Main(stable - after proven)
Protected	No
Stable	No
Parent Branch	prod, prod/*
Child Branch	None
Tags	None
Merge	None

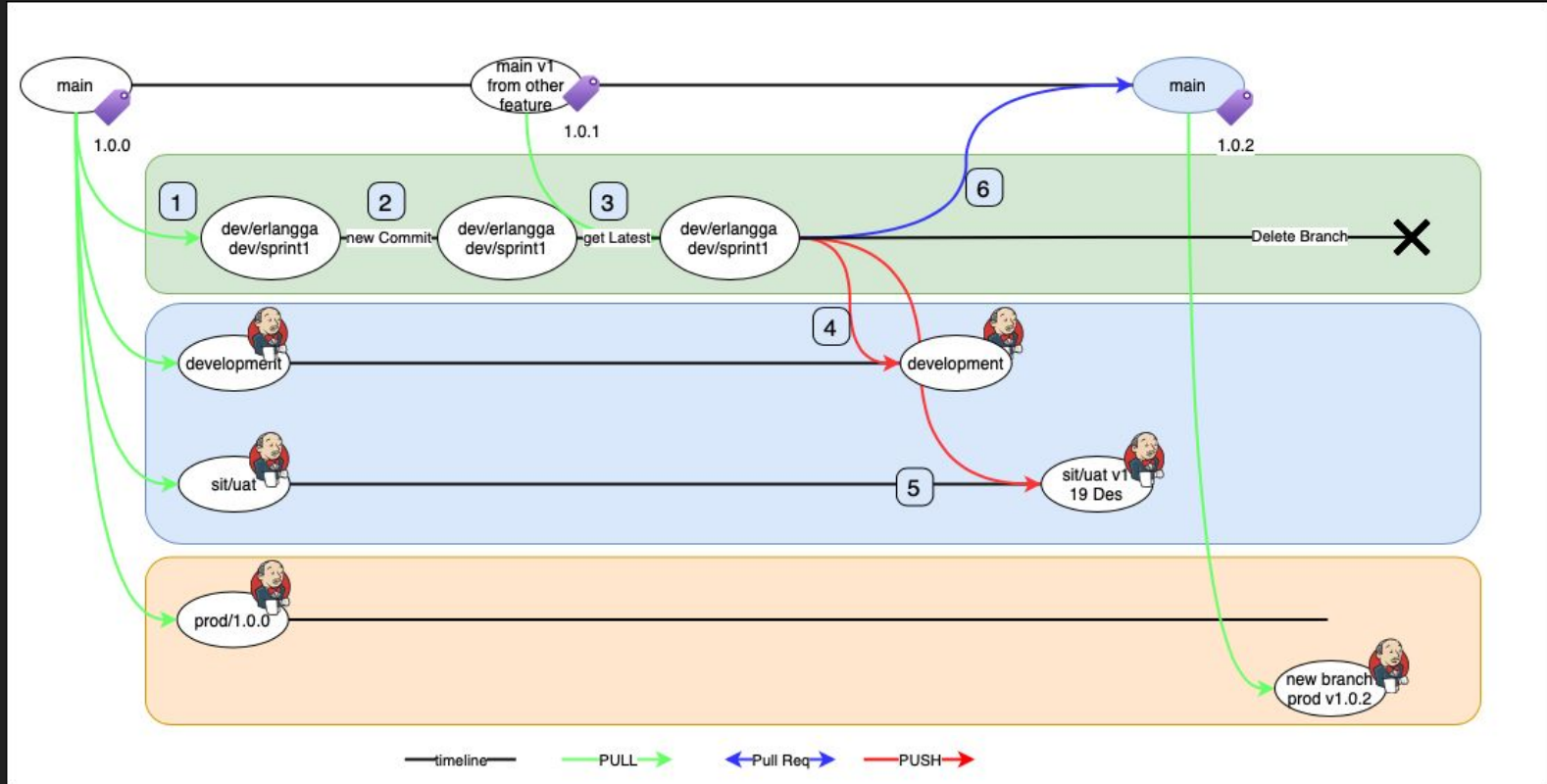
Use Cases

UC01– Development Phase / New Feature / Sprint Based

1. Create Branch from main named: dev/xyz
2. Create commits on dev/xyz
3. After development complete, pull from main to catch up with stable (see example image to check how many commits behind stable version)
4. Promote to Development : Pull Request or Merge to test in Development
5. Promote to SIT/UAT : Pull Request or Merge to test in SIT/UAT
6. Pull Request to main (as new stable version)
7. **[UC03 Devops : Promote to Production]**



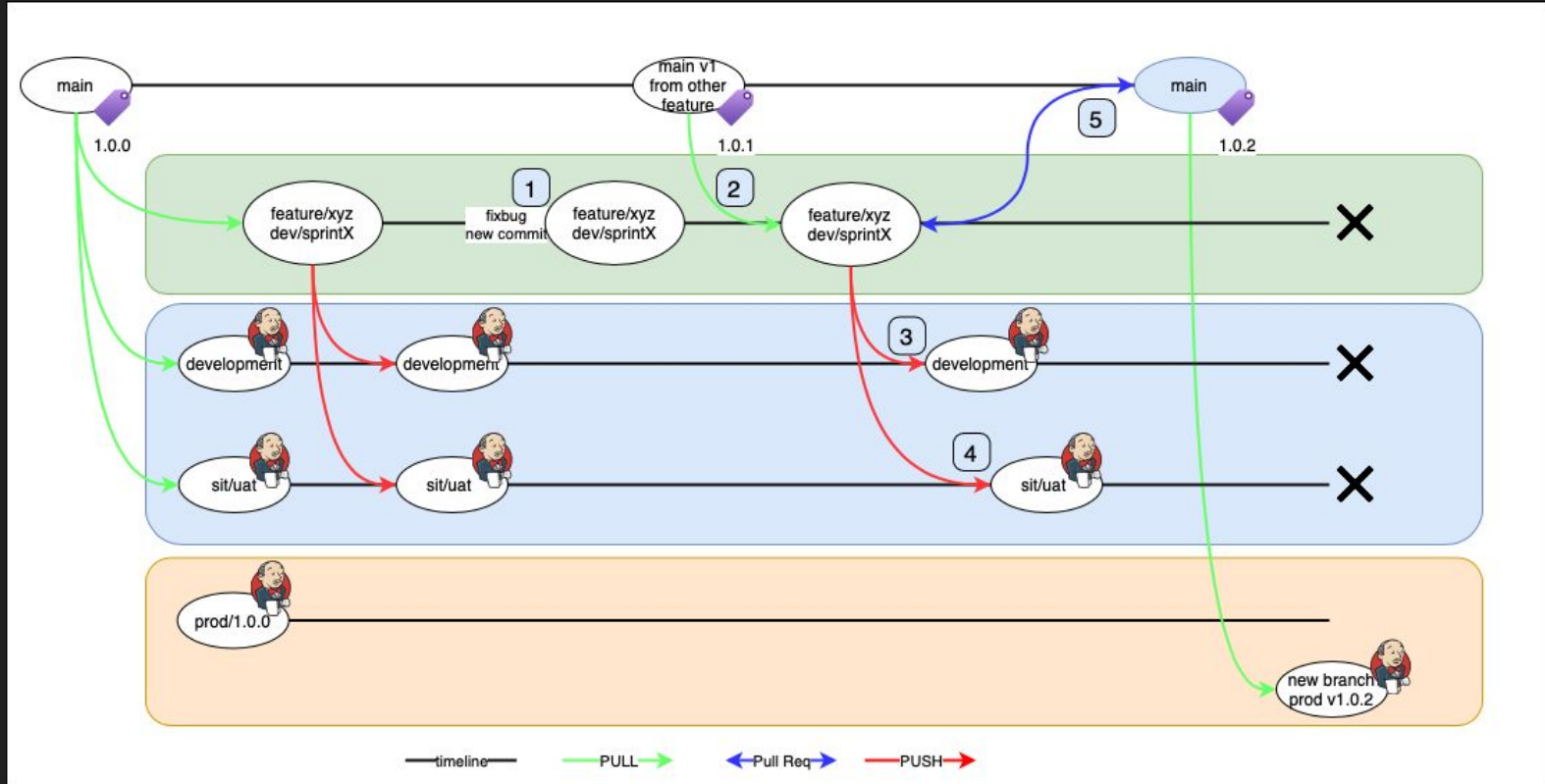
UC01 – Development Phase Diagram



UC02 – Fix Bug during testing SIT/UAT

1. Create new Commit on feature branch
2. (Optional) catch up with stable version
3. Promote to Development : Pull Request or Merge to retest in Development
4. Promote to SIT/UAT : Pull Request or Merge to retest in SIT/UAT
5. **[UC03 Devops : Promote to Production]**

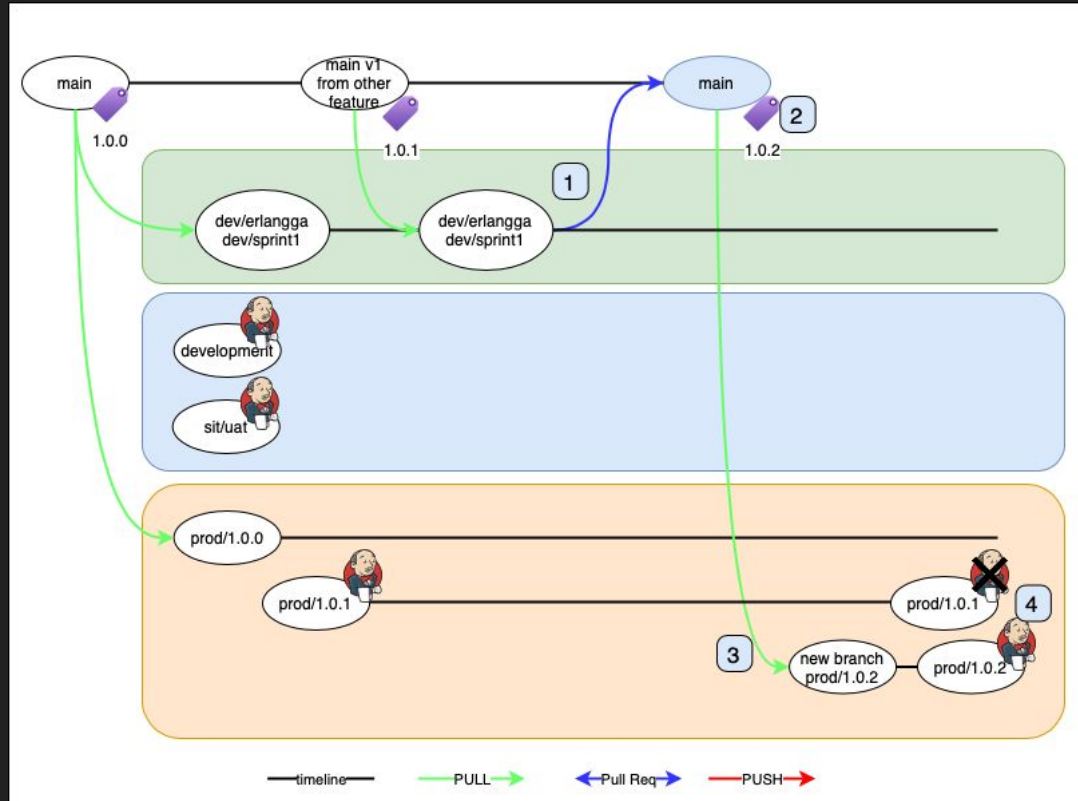
UC02 – Fix Bug during testing SIT/UAT Diagram



UC03 – DevOps: Promote to Production

1. Create/Approve Pull Request from feature branch to Stable. There should not be any conflict because feature branch should already up to date with stable. If there are Conflict during merge, Stop this process and reject Promote
2. Create new Tag to the new Commit from step#1. New Tag is for new feature, use existing Tag for hotfix see [**UC04–Hotfix**].
3. Create new branch prod/* from stable tag on step#2
4. Modified or create new Pipeline Jenkins

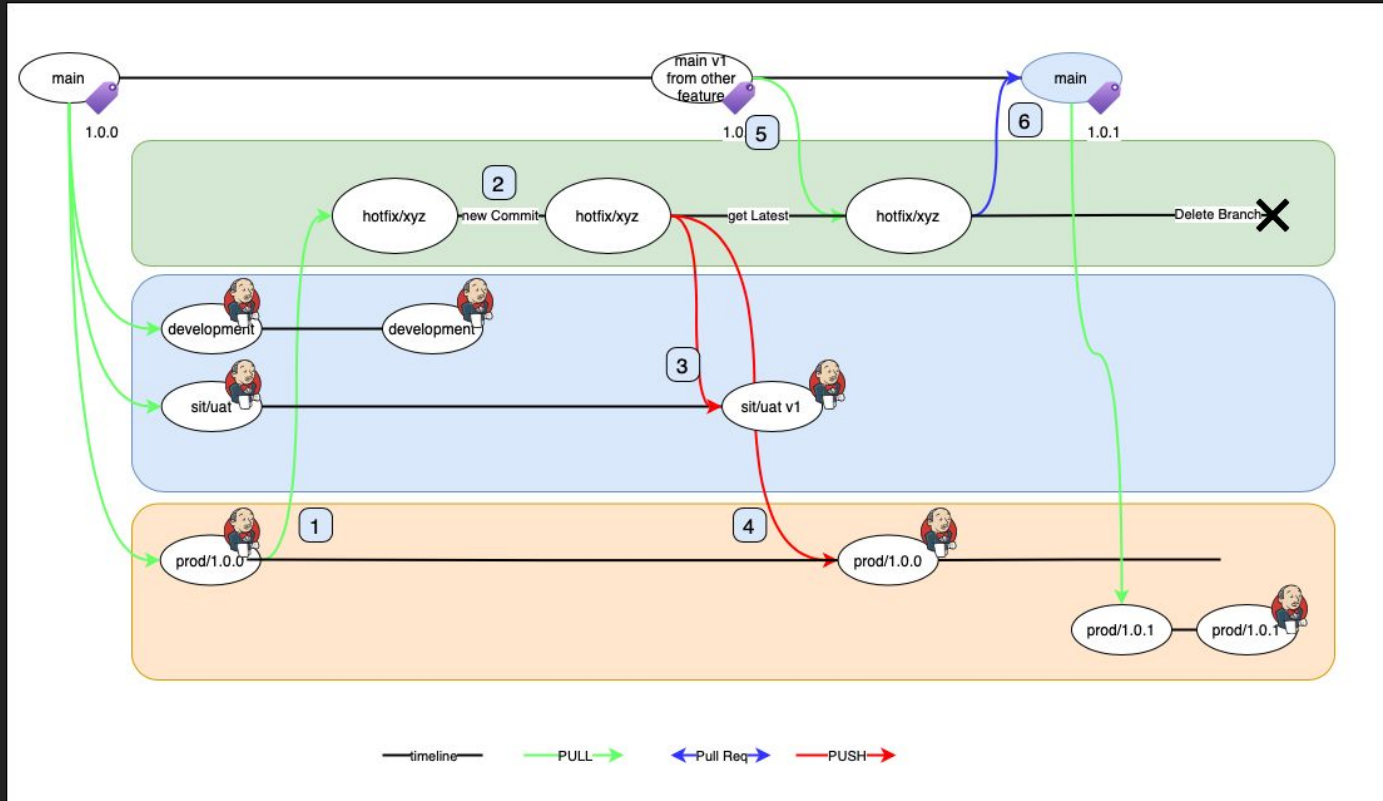
UC03 – DevOps: Promote to Production Diagram



UC04 – Hotfix (Urgent / Time Sensitive)

1. Create branch named: hotfix/xyz (or auto create from Jira, etc) from parent prod/*
2. Create commits on hotfix/xyz
3. (optional) Promote to Development/SIT/UAT
4. **[UC03 Devops : Promote to Production]**
5. Pull from Main catch up with stable
6. Pull Request to main (as new stable version) and move existing tag to new commit

UC04 – Hotfix (Urgent/Time Sensitive) Diagram



UC05 – Reset Environment to Stable Version

1. (optional) create branch sit_backup from sit
2. (optional - CAUTION) delete previous branch sit
3. Create new branch named: sit_xyz(or sit) from main any stable tags
4. (optional) promote to SIT any feature, dev, hotfix if needed
5. Execute or Modify or Create New Jenkins Pipeline

UC05 – Reset Environment to Stable Version

