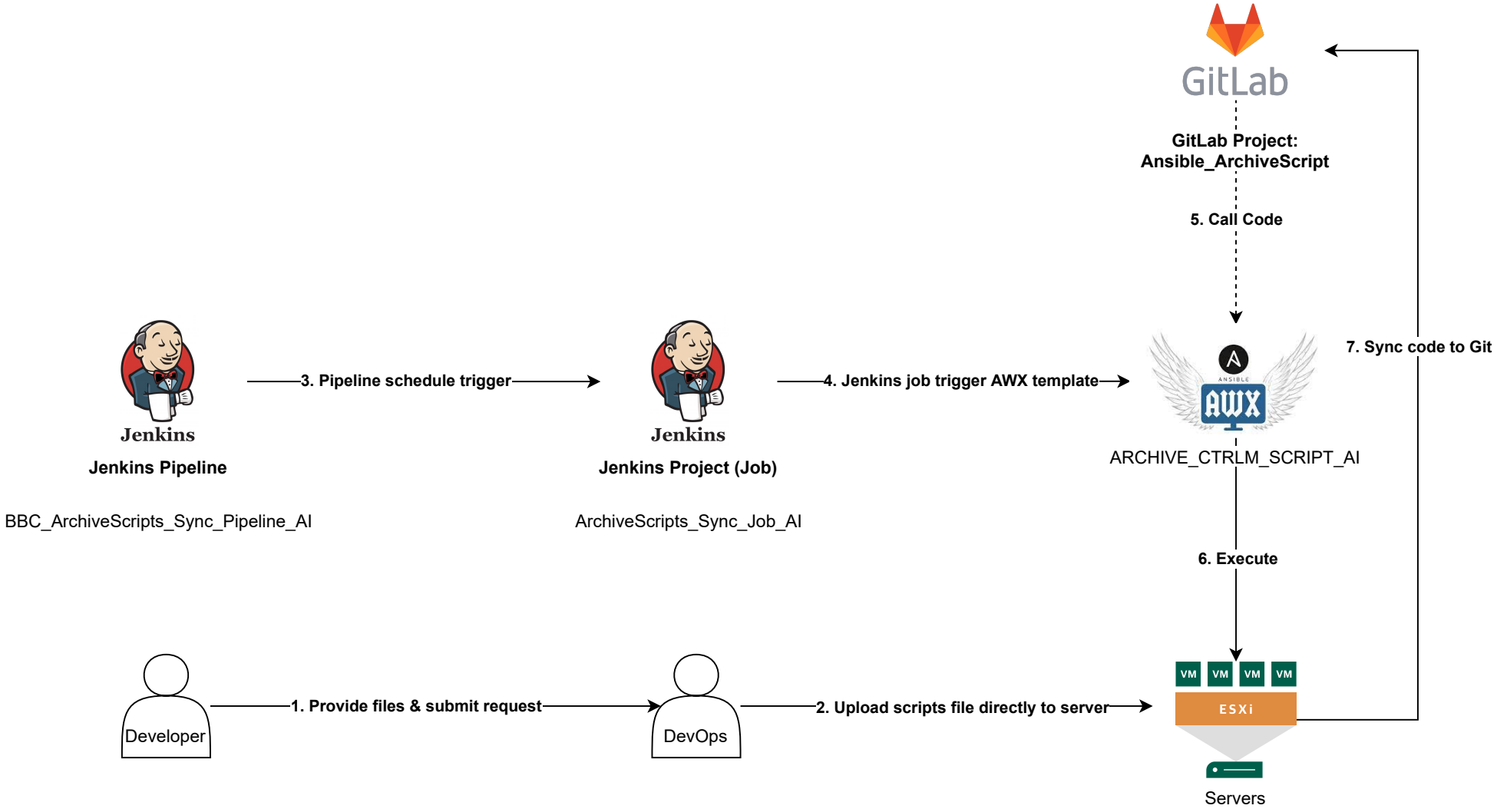
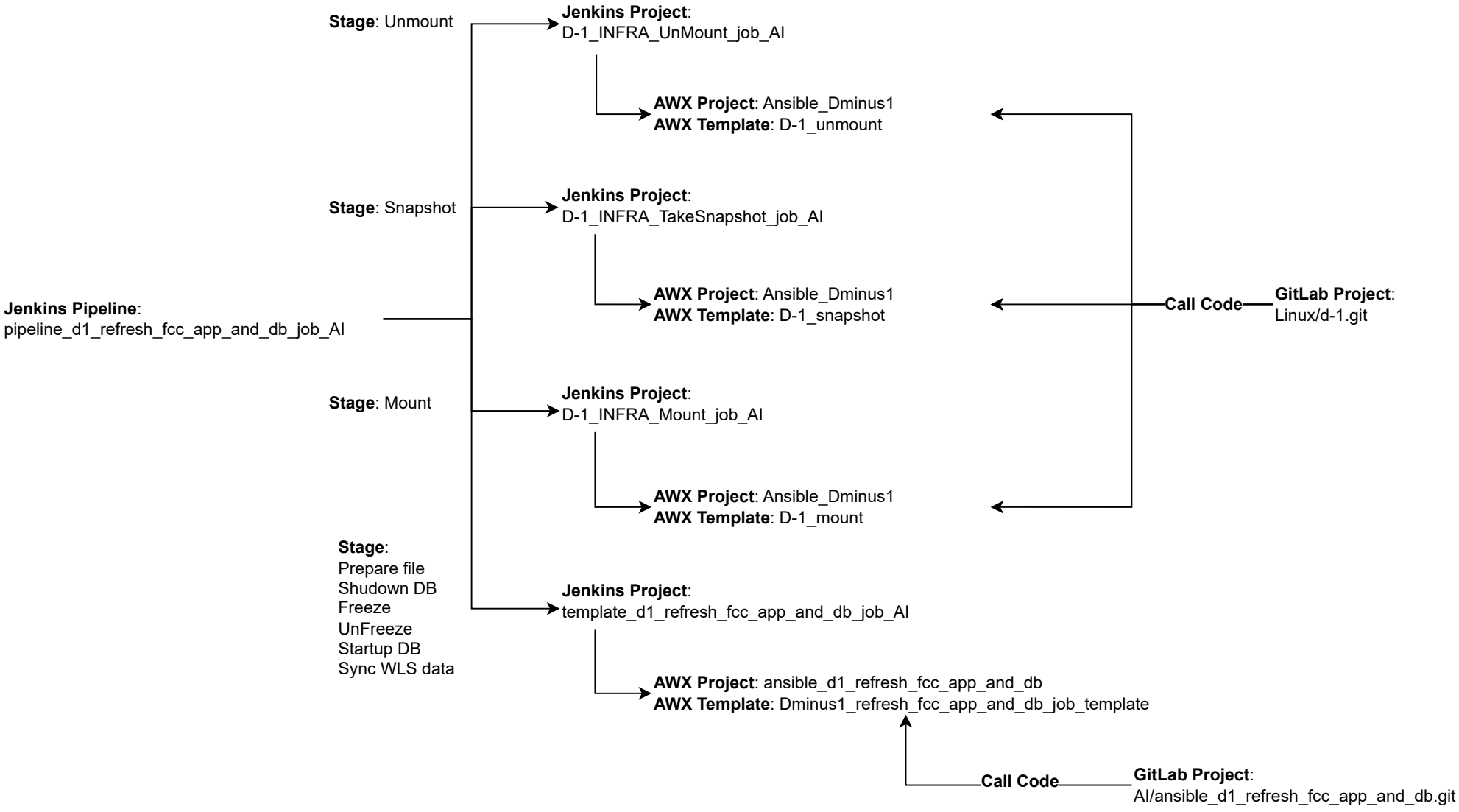
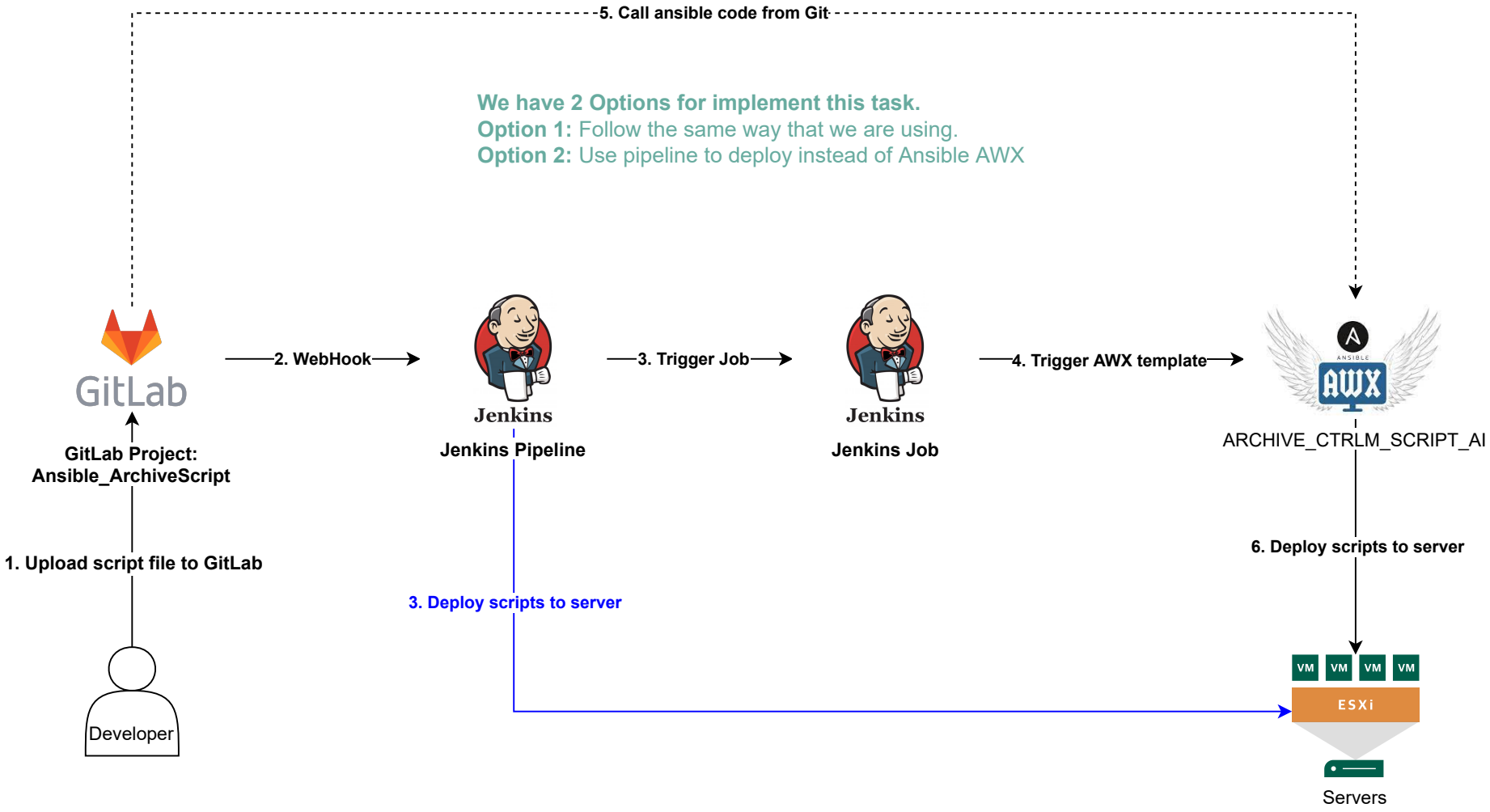
AS IS


GitLab
GitLab Project:
Ansible_ArchiveScript
5. Call Code
Jenkins
Jenkins Pipeline
BBC_ArchiveScripts_Sync_Pipeline_AI
3. Pipeline schedule trigger
Jenkins
Jenkins Project (Job)
ArchiveScripts_Sync_Job_AI
4. Jenkins job trigger AWX template
ANSIBLE
AWX
ARCHIVE_CTRLM_SCRIPT_AI
7. Sync code to Git
6. Execute
Developer
1. Provide files & submit request
DevOps
2. Upload scripts file directly to server
VM
VM
VM
VM
ESXi
Servers

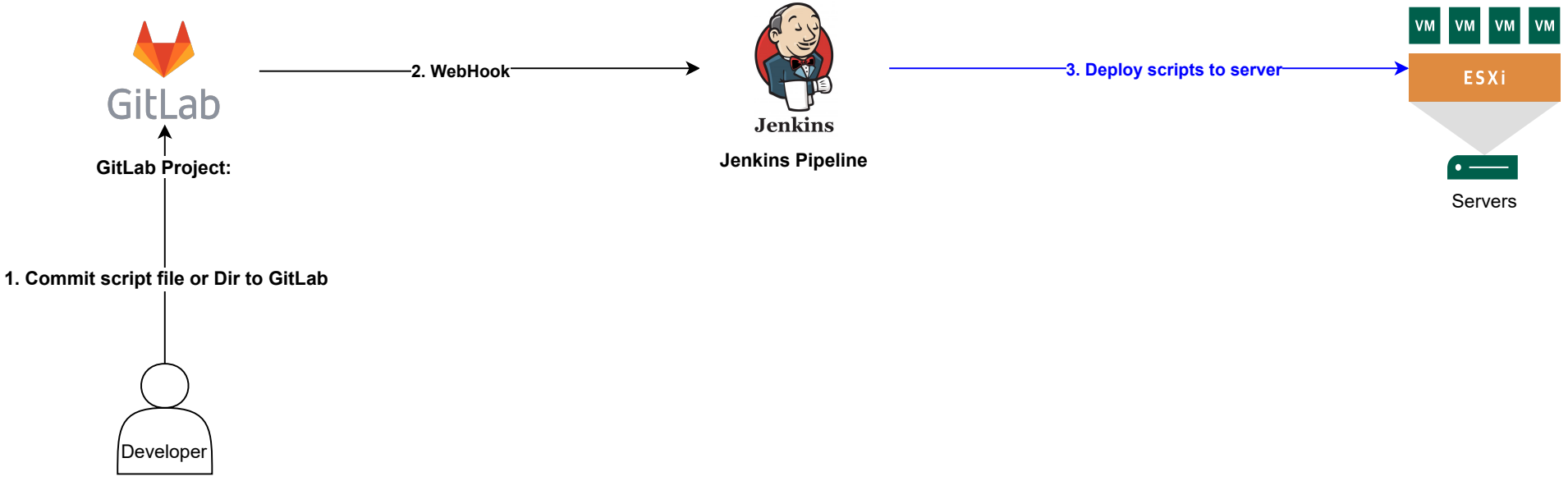

Stage: Unmount
Jenkins Project:
D-1_INFRA_UnMount_job_AI
AWX Project: Ansible_Dminus1
AWX Template: D-1_unmount
Stage: Snapshot
Jenkins Project:
D-1_INFRA_TakeSnapshot_job_AI
AWX Project: Ansible_Dminus1
AWX Template: D-1_snapshot
Jenkins Pipeline:
pipeline_d1_refresh_fcc_app_and_db_job_AI
Call Code
GitLab Project:
Linux/d-1.git
Stage: Mount
Jenkins Project:
D-1_INFRA_Mount_job_AI
AWX Project: Ansible_Dminus1
AWX Template: D-1_mount
Stage:
Prepare file
Shudown DB
Freeze
UnFreeze
Startup DB
Sync WLS data
Jenkins Project:
template_d1_refresh_fcc_app_and_db_job_AI
AWX Project: ansible_d1_refresh_fcc_app_and_db
AWX Template: Dminus1_refresh_fcc_app_and_db_job_template
Call Code
GitLab Project:
AI/ansible_d1_refresh_fcc_app_and_db.git

TO BE

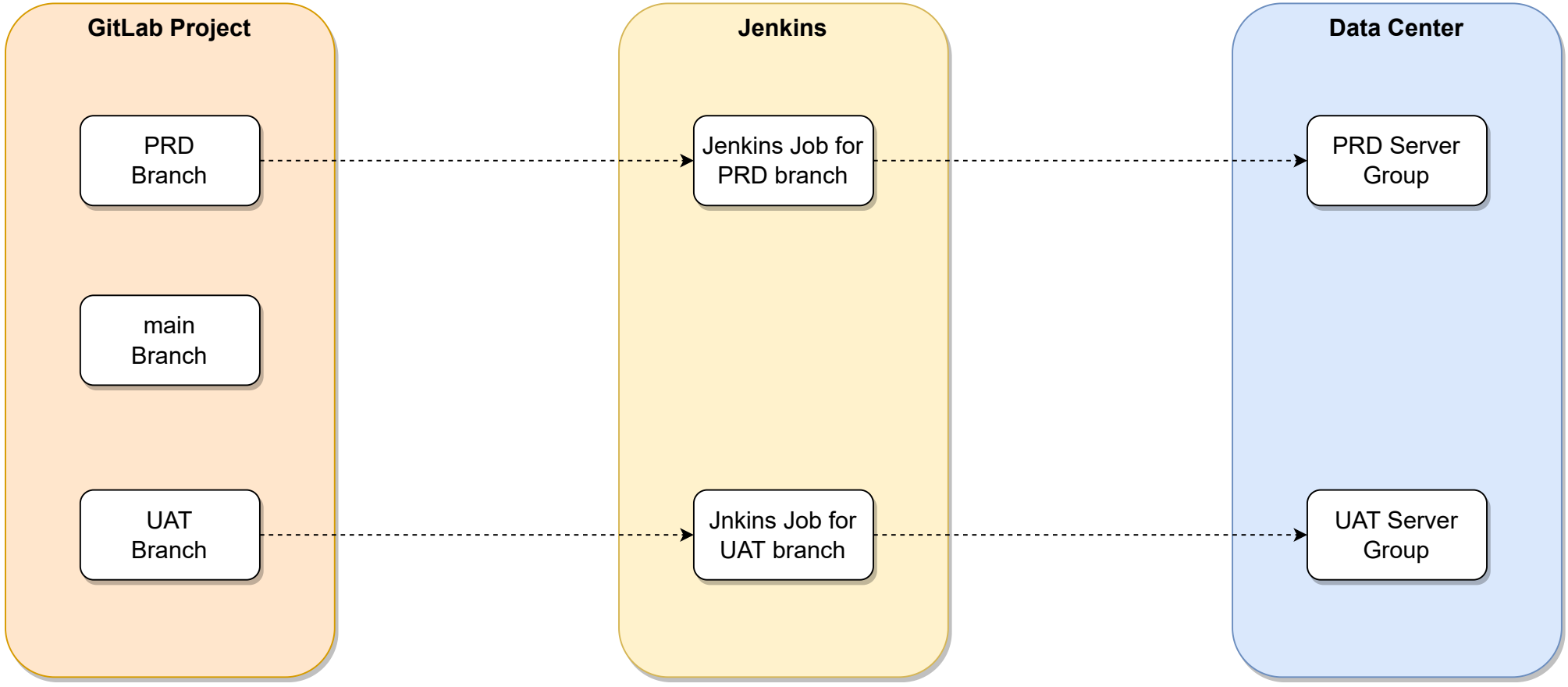

5. Call ansible code from Git
We have 2 Options for implement this task.
Option 1: Follow the same way that we are using.
Option 2: Use pipeline to deploy instead of Ansible AWX
GitLab
2. WebHook
Jenkins
Jenkins Pipeline
3. Trigger Job
Jenkins
Jenkins Job
4. Trigger AWX template
ANSIBLE
AWX
ARCHIVE_CTRLM_SCRIPT_AI
GitLab Project:
Ansible_ArchiveScript
1. Upload script file to GitLab
Developer
3. Deploy scripts to server
6. Deploy scripts to server
VM
VM
VM
VM
ESXi
Servers

TO BE

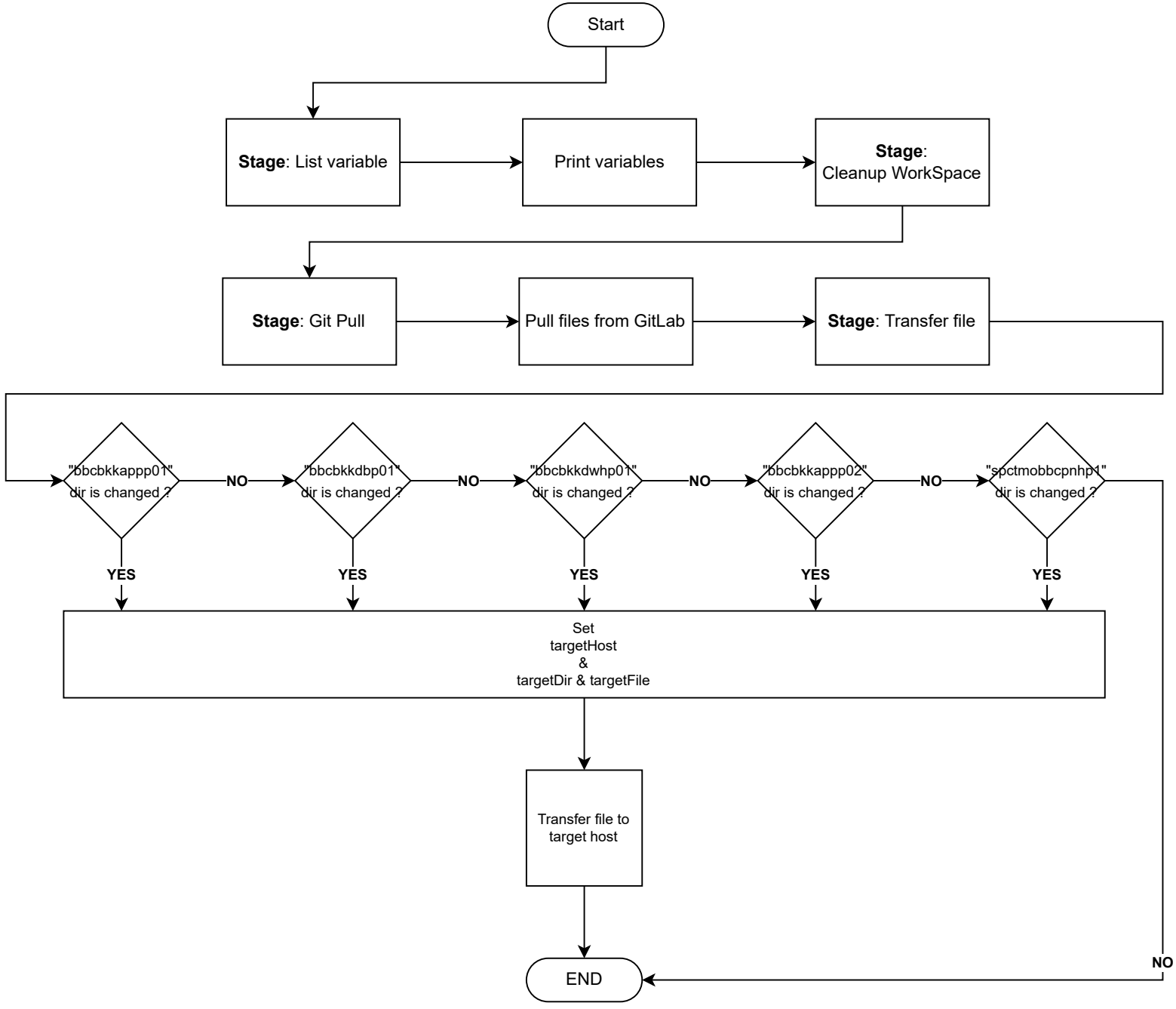
This workflow we will use pipeline to deploy directly instead of Ansible AWX
Pros: Reduce workload and traffic that will occur on daily midnight
Cons: Need to understand about Jenkins groovy pipeline



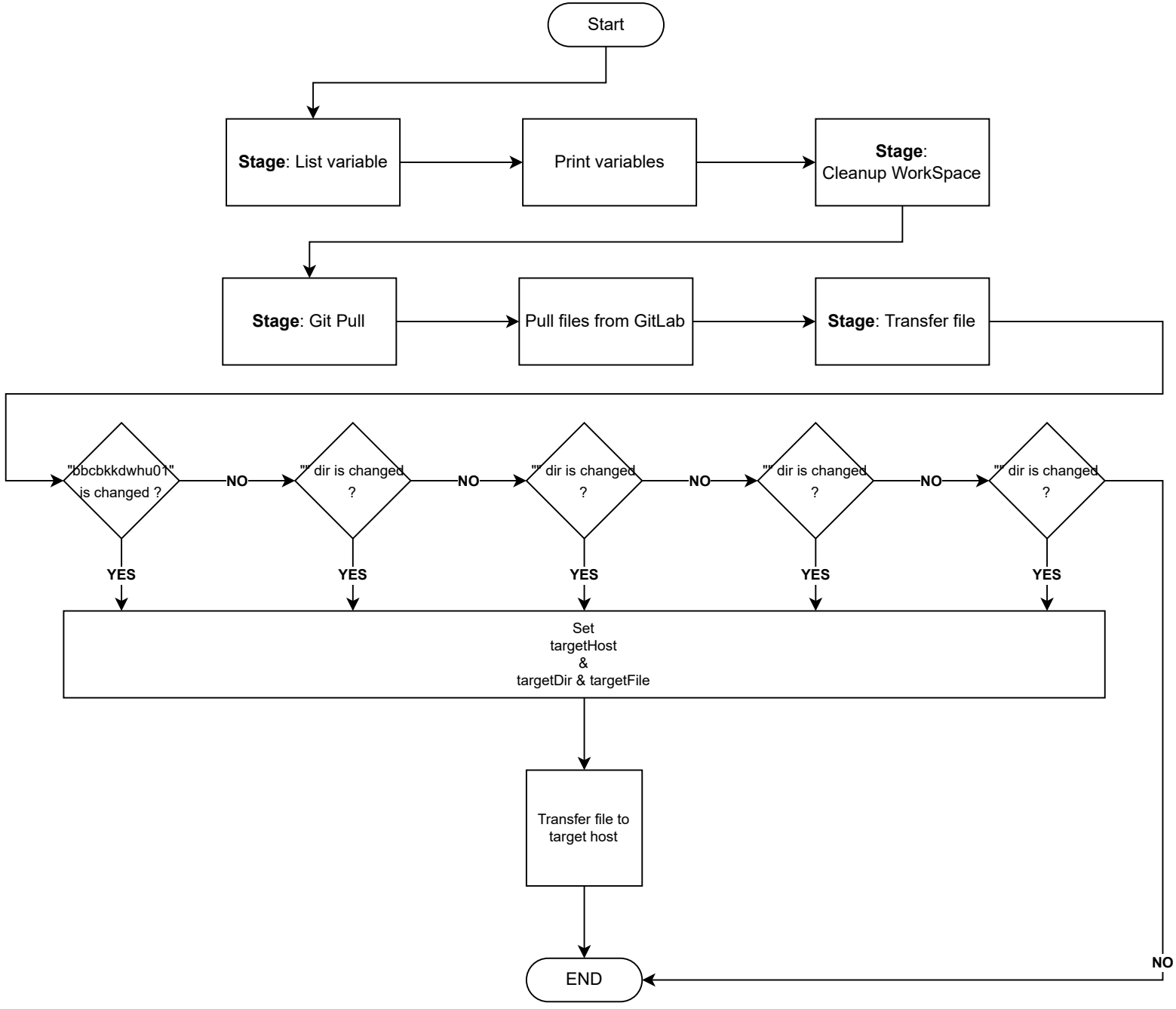
Workflow relation



Pipeline Bakong_deploy_controlm_user_script_AI



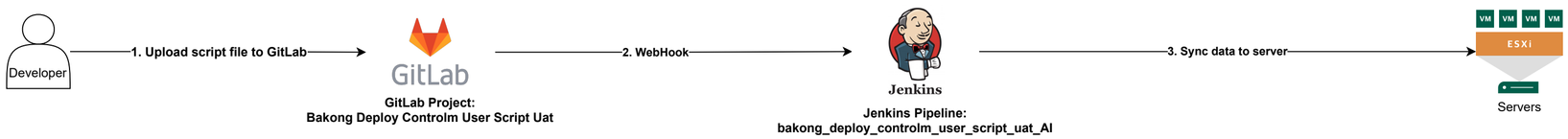
Pipeline Bakong_deploy_controlm_user_script_uat_AI

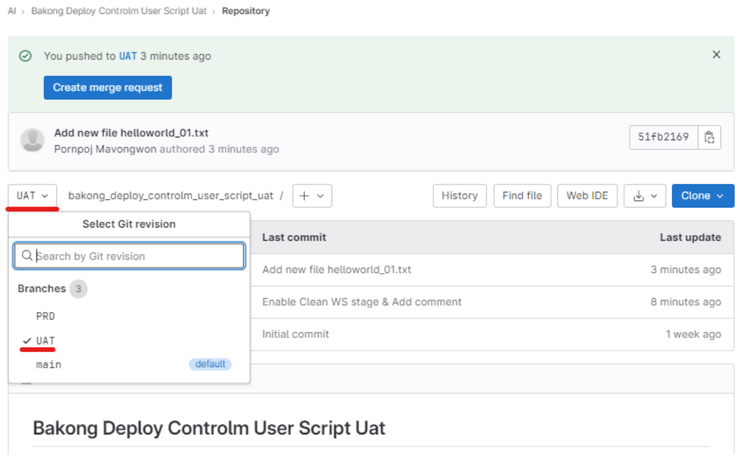


Pipeline bakong_deploy_controlm_user_script_uat_AI

Stage View

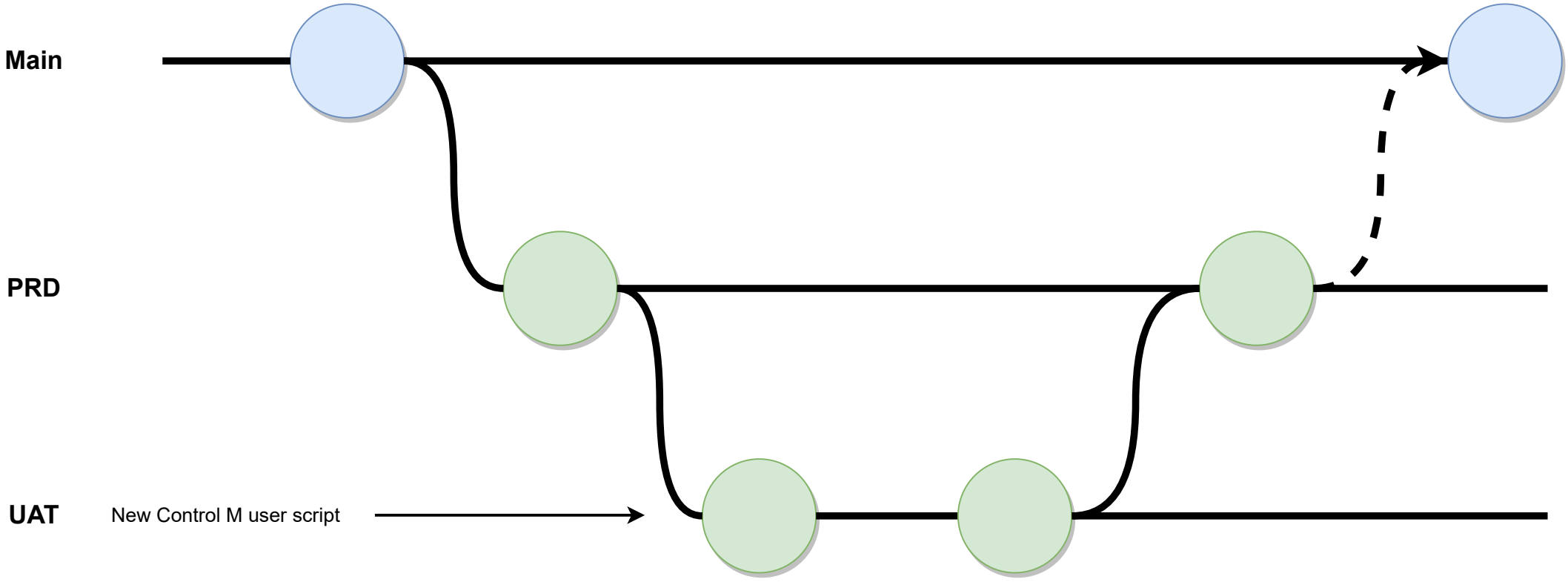
	Declarative: Checkout SCM	List variable	Cleanup WorkSpace	Git Pull: UAT Branch	Transfer File: UAT Branch
Average stage times: (Average full run time: ~6s)	499ms	279ms	22ms	1s	2s
#125 Jul 14 13:24 — 1 commit	490ms	279ms	25ms	1s	2s
#124 Jul 14 13:19 — 1 commit	508ms	279ms	20ms	1s	2s

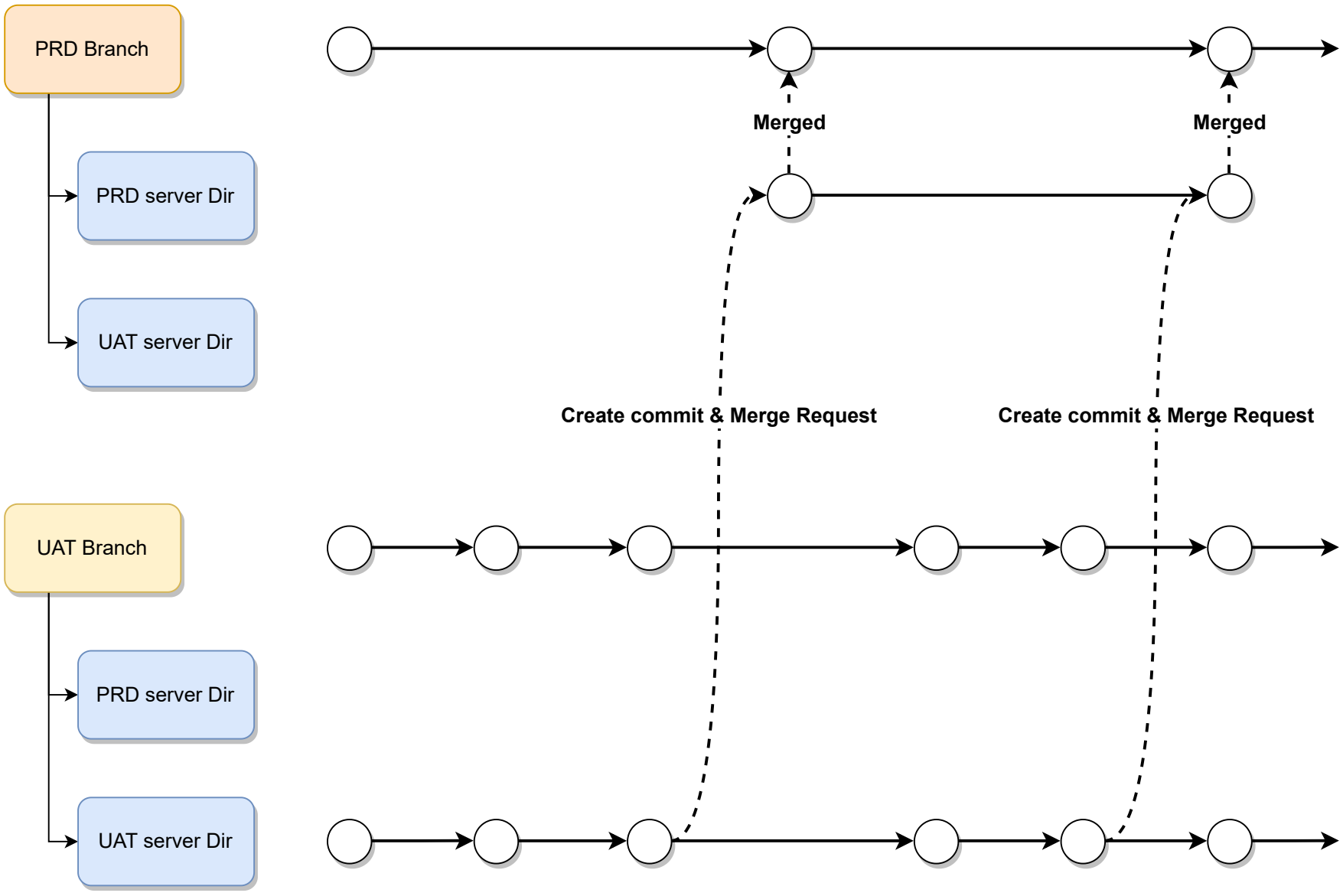


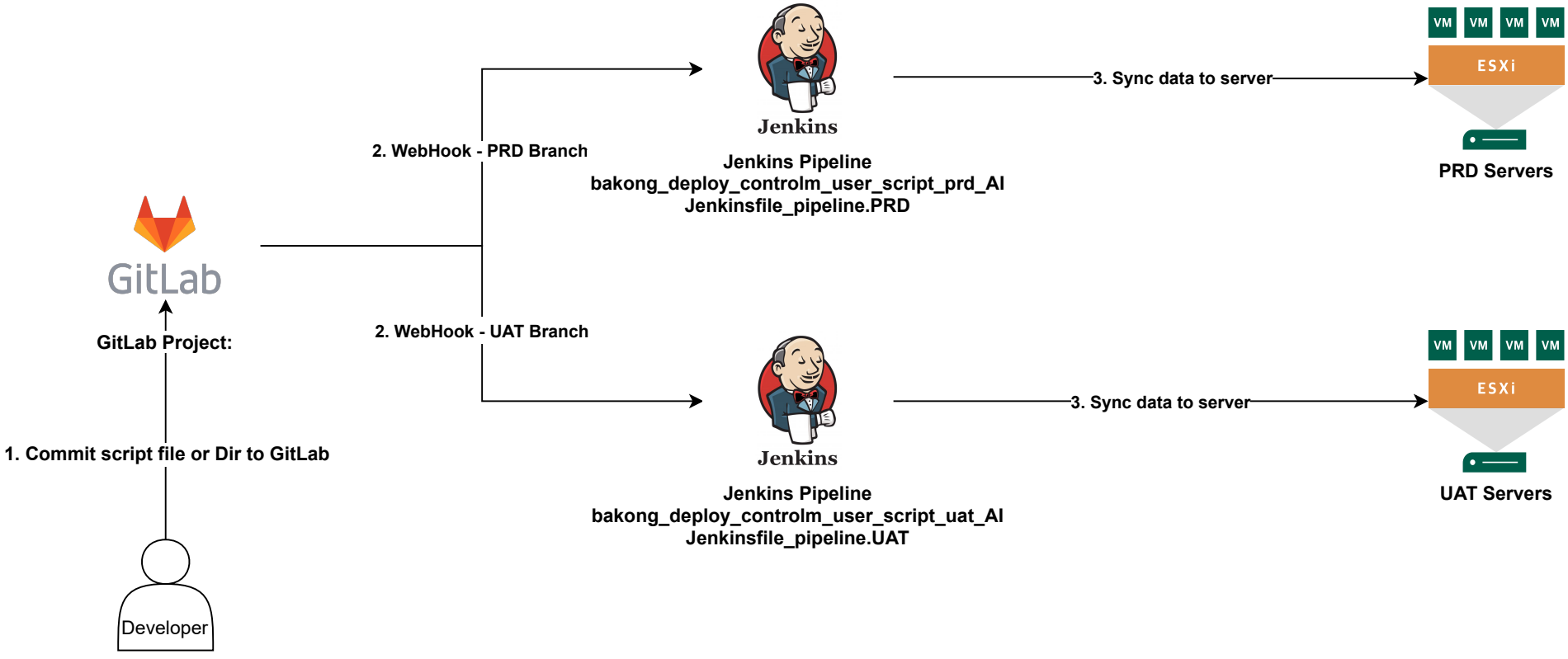



```
-rwxr-xr-x+  1 ctrlm ctrlm     97 Jul 12 17:55 helloworld.txt
-rwxr-xr-x+  1 ctrlm ctrlm      1 Jul 12 18:04 helloword.txt
drwxr-xr-x+  2 ctrlm ctrlm     26 Jul 14 10:43 BPC
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]#
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]# cat BPC/helloword.txt
echo -e "hello world 001"
echo -e "hello world 002"
echo -e "hello world 003"
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]# cat BPC/helloword.txt
echo -e "hello world 001"
echo -e "hello world 002"
echo -e "hello world 003"
echo -e "hello world 004"
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]#
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]#
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]# ls -ltr BPC/
total 16
-rwxr-xr-x+ 1 ctrlm ctrlm 104 Jul 14 10:49 helloword.txt
-rwxr-xr-x+ 1 ctrlm ctrlm  32 Jul 14 10:51 helloworld_01.txt
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]# cat BPC/helloworld_01.txt
echo -e "Hello new World 001\n"
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]#
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]#
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]# ls -ltr | tail
-rw-rw-r--+  1 ctrlm ctrlm 530630 Feb  2 14:03 SMARTVISTA_script.tar.gz
drwxrwxr-x+  9 ctrlm ctrlm   4096 Feb  7 18:04 tps_postgres
drwxrwxr-x+  8 ctrlm ctrlm   4096 Feb  7 18:28 esb_postgres
drwxrwxr-x+  8 ctrlm ctrlm   4096 Feb 21 12:40 share_simba_to_dwh
drwxrwxr-x+ 10 ctrlm ctrlm   4096 Mar  3 12:54 VISA_MC_Reconciliation
drwxrwxr-x+  8 ctrlm ctrlm    116 Mar  3 17:22 esb_bankflex
-rwxr-xr-x+  1 ctrlm ctrlm     97 Jul 12 17:55 helloworld.txt
-rwxr-xr-x+  1 ctrlm ctrlm      1 Jul 12 18:04 helloword.txt
drwxr-xr-x+  2 ctrlm ctrlm     50 Jul 14 10:51 BPC
drwxr-xr-x+  2 ctrlm ctrlm     21 Jul 14 10:53 BPC01
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]#
[root@bbcbkkdwhu01 (UAT) /home/ctrlm/user_scripts]#
```

Git WorkFlow




PRD Branch
PRD server Dir
UAT server Dir
Merged
Merged
Create commit & Merge Request
Create commit & Merge Request
UAT Branch
PRD server Dir
UAT server Dir


Developer
1. Commit script file or Dir to GitLab
GitLab
GitLab Project:
2. WebHook - PRD Branch
2. WebHook - UAT Branch
Jenkins
Jenkins Pipeline
bakong_deploy_controlm_user_script_prd_AI
Jenkinsfile_pipeline.PRD
Jenkins
Jenkins Pipeline
bakong_deploy_controlm_user_script_uat_AI
Jenkinsfile_pipeline.UAT
3. Sync data to server
3. Sync data to server
VM
VM
VM
VM
ESXi
PRD Servers
VM
VM
VM
VM
ESXi
UAT Servers