# Synapse Pipelines Deployment Scenarios

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| # | Scenario | Description | Steps | Route Maps |
| 1 | New Feature Development and Merge | Developing a new feature for a pipeline and merging it back to the master branch. | 1. Create a new feature branch from master. 2. Develop the new feature in Synapse. 3. Test the feature in the DEV environment. 4. Push changes to GitHub. 5. Create a PR for merging into master. 6. Review and merge the PR into master. 7. Update workspace\_publish from master. | Feature → Master → Workspace\_Publish |
| 2 | Deploy to QAT | Deploying the latest changes to the QAT environment directly from the master branch. | 1. Trigger the deployment pipeline from master to QAT. 2. Monitor deployment status. 3. Validate the deployment in QAT. | Master → Workspace\_Publish → QAT |
| 3 | Deploy to PROD | Deploying the latest changes to the PROD environment directly from the master branch. | 1. Trigger the deployment pipeline from master to PROD. 2. Monitor deployment status. 3. Validate the deployment in PROD. | Master → Workspace\_Publish → PROD |
| 4 | Hotfix Development | Developing a hotfix/bug for an urgent issue in the production environment. | 1. Create a Hotfix branch from master. 2. Apply the Hotfix in Synapse. 3. Test the hotfix in the DEV environment. 4. Merge the Hotfix back into master. 5. Update workspace\_publish from master. | Hotfix → Master → Workspace\_Publish |
| 5 | Hotfix Deployment to QAT | Deploying a hotfix to the QAT environment. | 1. Trigger deployment of the hotfix from master to QAT. 2. Validate hotfix deployment in QA | Master → Workspace\_Publish → QAT |
| 6 | Hotfix Deployment to PROD | Deploying a hotfix to the PROD environment. | 1. Trigger deployment of the hotfix from master to PROD. 2. Validate hotfix deployment in PROD. | Master → Workspace\_Publish → PROD |
| 7 | Rollback Changes | Rolling back changes made in the master branch due to issues in qat/production. | 1. Identify the commit to rollback. 2. Create a rollback branch from master. 3. Test the rollback changes in the DEV environment. 4. Merge the rollback changes back into master. 5. Update workspace\_publish from master. | Rollback → Master → Workspace\_Publish |