

Q5: List 3 techniques you suggest to roll out high-quality changes to production and describe how you will apply to your daily routines and activities.

GIT:

1)

Master Branch and Feature Branches

Merger to Master should be through pull request

1) Branch policies are ->

Minimum 2 reviewers should be approved 2) Build should be passed 3) SONAR qube quality gate should pass

2)

Azure DEV OPS CI/CD Pipelines:

CI Pipelines: Build, UnitTests, SonarQube quality gate, Quality express security scans, generate docker image

3) Below are the different environments suggested

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1) DEV environment

2) Integration environment → Integration tests to be executed

3) Test Environment → Couple of sanity check for feature/bug fix

4) Staging → after approval move to staging for Business acceptance test

5) Production environment → Inform down time to stake holders with time lines, after approvals move to production and prod validation, if issue exists roll back to previous version.

All environment will have same configuration in terms of firewalls except the no of replica in cluster.

