## 1. Create a Project with User Groups and Apply Group Policies

Login to Azure DevOps:

- Visit https://dev.azure.com and sign in.

Create a New Project:
- Click "New Project"
- Enter project name: DevOpsAccessManagement
- Set visibility to Private
- Click Create
Create User Groups:
- Go to Project Settings > Permissions
- Click "New Group" and create groups like:
- Project Administrators
- Contributors
- Viewers
Add Users to Groups:
- Select a group > Members > Add users by email > Save
Apply Permissions:
- Open each group and set permissions based on their roles.
2. Apply Branch Policies (Only Admin Can Access Master Branch)
Go to Repos > Branches
- Click next to master > Branch Policies
Enable:

- Minimum number of reviewers: 1
- Require linked work items
- Require successful build

### Go to Branch Security:

- Contributors: Contribute Deny, Create Branch Allow
- Project Administrators: All permissions Allow

## 3. Apply Branch Security and Locks

### Go to Repos > Branches

- Lock the master branch using > Lock Branch

## Go to Branch Security:

- Contributors: Deny Contribute, Force push, Delete
- Admins: Allow all actions

## 4. Apply Branch Filters and Path Filters

Go to Project Settings > Repos > Branches > master > Branch Policies

#### **Under Build Validation:**

- Add Build Policy with Branch Filter = master
- Path Filters:
- Include: src/\*
- Exclude: docs/\*

### 5. Apply a Pull Request

Create a new branch: feature-login

- Source: feature-login, Target: master

Go to Repos > Pull Requests > New Pull Request

- Click Create and wait for approval/build success

6. Apply Triggers in Build and Release Pipelines

Make code changes and commit

- Add reviewers, link work items

Build Trigger in YAML:
trigger:
branches:
include:
- master
- develop
pr:
branches:
include:
- "*"
Release Pipeline:
- Go to Pipelines > Releases > New Pipeline
- Add artifact from build pipeline
- Enable Continuous Deployment trigger
7. Apply Gates to the Pipeline
Go to Pipelines > Releases > Select Stage > Pre-deployment Conditions

Enable Gates and A	.dd:
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- Delay timer
- REST API check
- Azure Monitor query

## 8. Allow Contributors to Create Pull Requests but Not Merge

Go to Repos > Branches > Branch Security

#### Set for Contributors:

- Create Branch: Allow

- Contribute: Deny

- Create PR: Allow

- Complete PR: Deny

Admins: Allow all permissions

## 9. Use Work Items in Pipelines

Go to Boards > Work Items

- Create new item and assign

Link Work Items in PR using #ID or link via UI

Enable 'Check for linked work items' in branch policy

Work items will show up in pipeline run summary