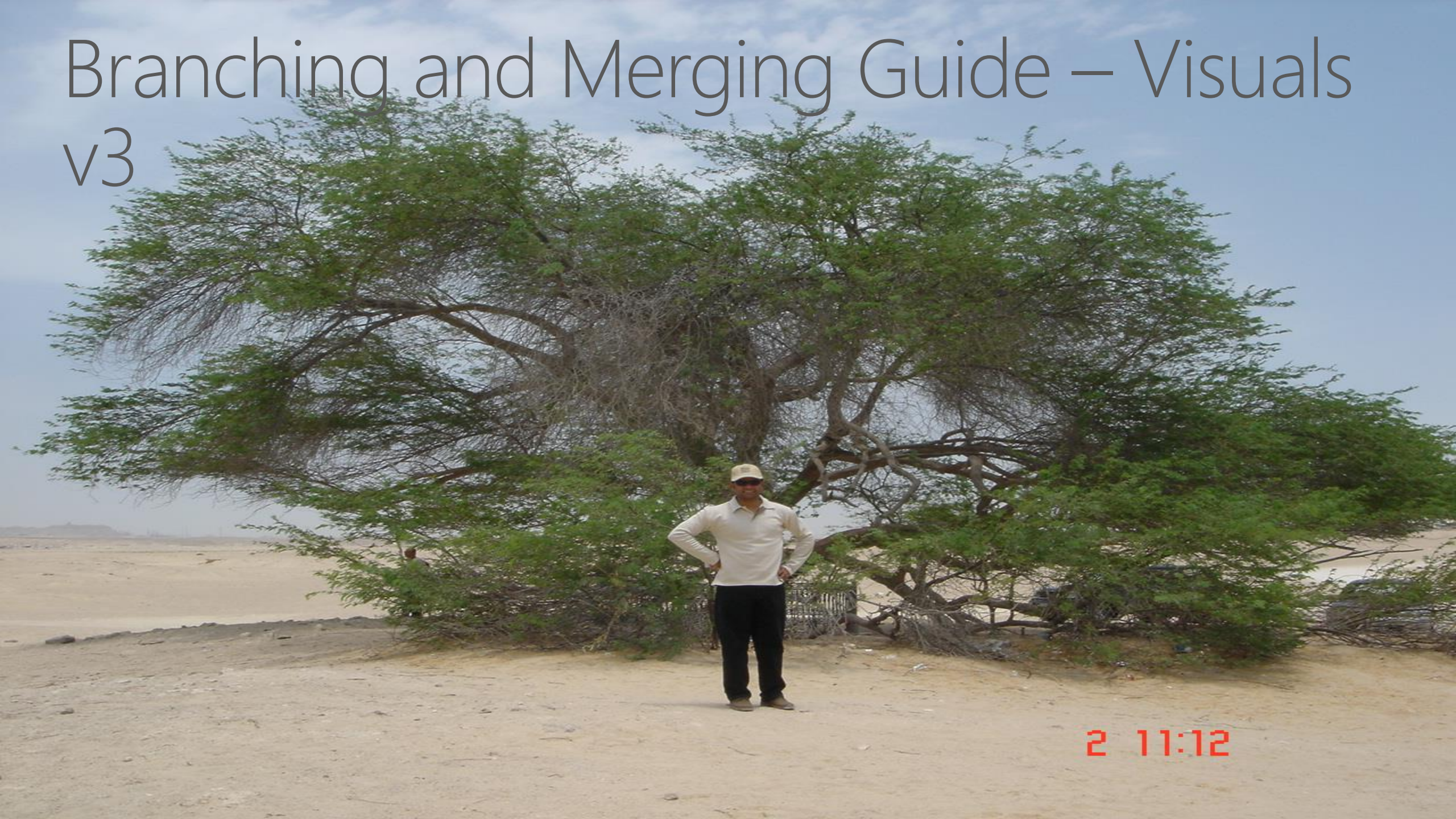
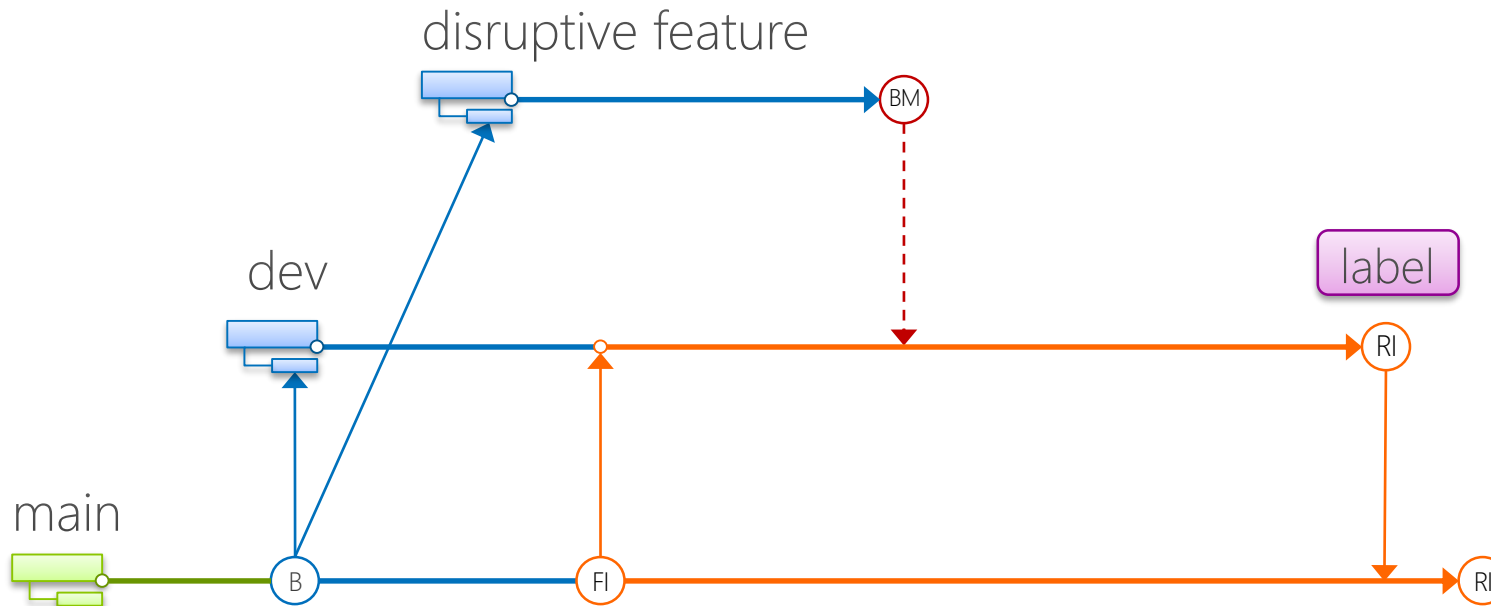


# Branching and Merging Guide – Visuals v3



2 11:12

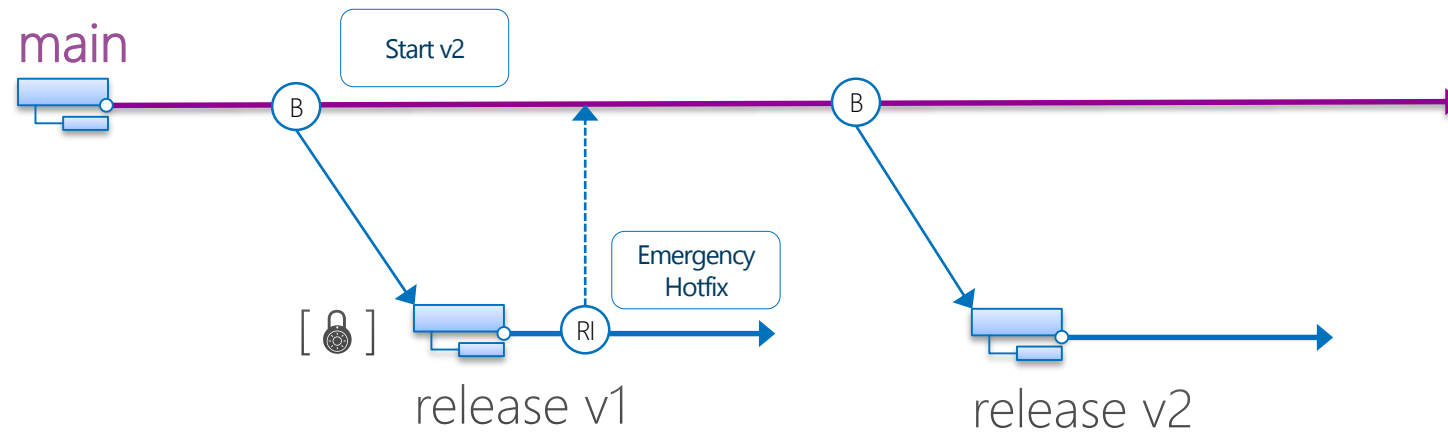


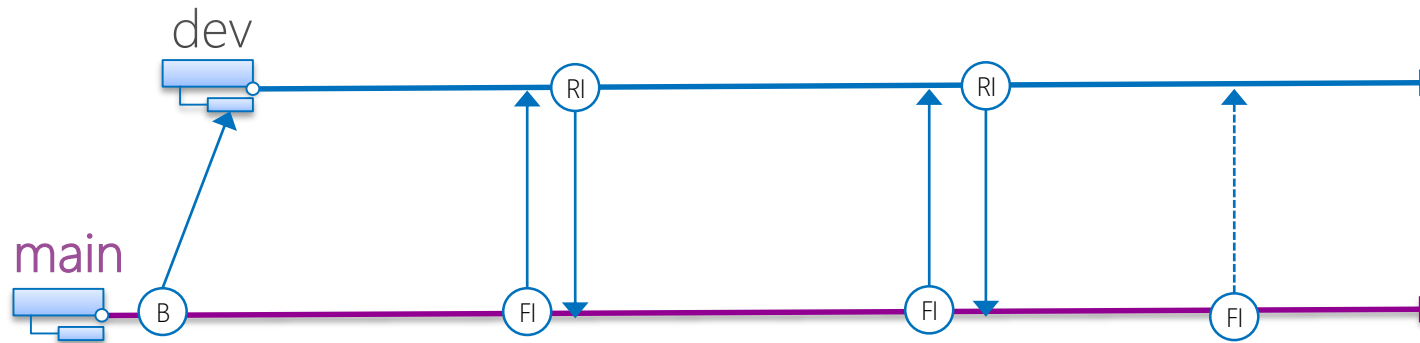


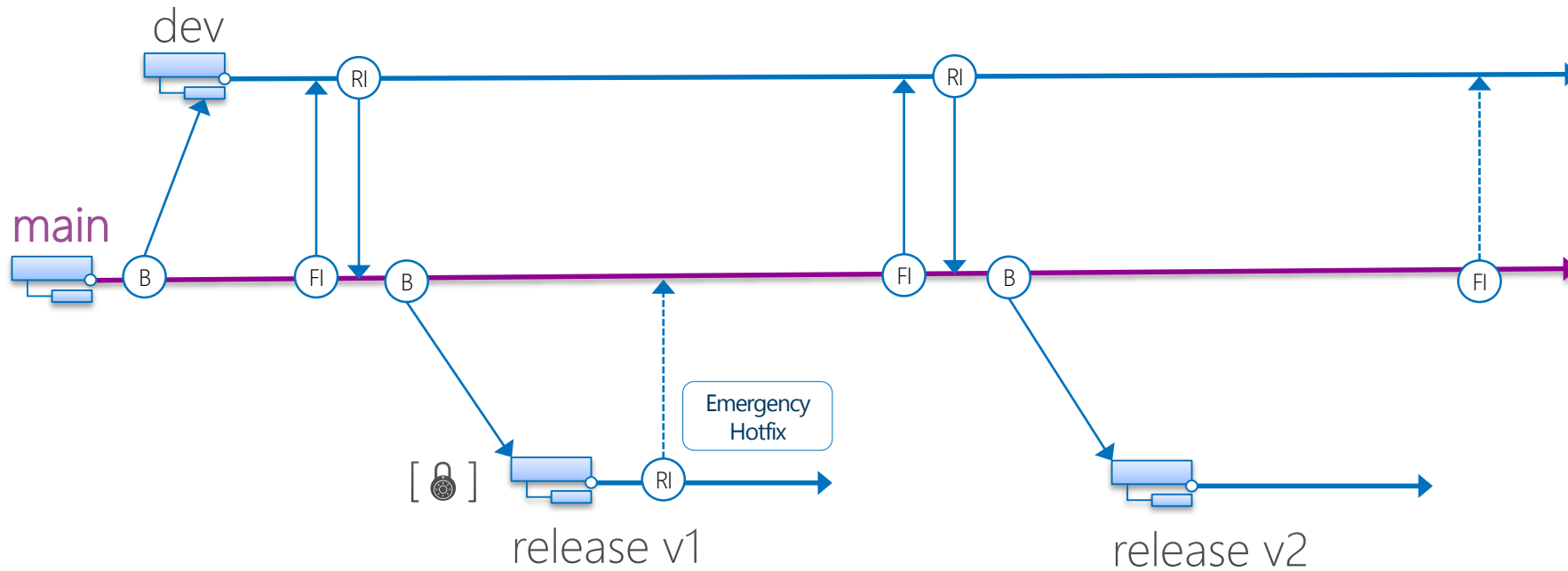
### Notes

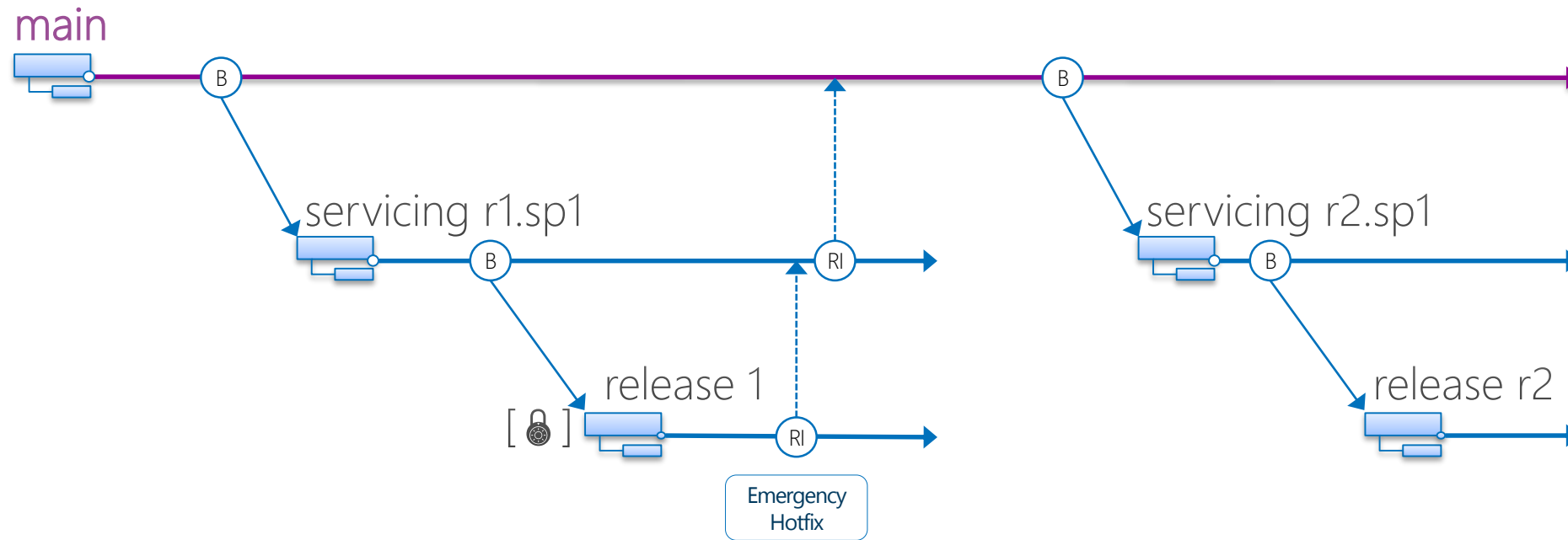
- We use a ● to indicate a change, which is either B, BM, FI, RI, CO, or CI for Branch, Baseless Merge, Forward Integration, or Reverse Integration for VC operations.
- Workspace operations are indicated by grey ● and lines, using CO, CI and GL for Checkout, Checkin and Get Latest workspace operations.
- We use colours only to highlight concepts where the classic blue (RGB 0 113 188) diagram does not work.
- **Baseless Merges** are shown with dotted merge lines.
- Align ●'s vertically and horizontally.
- Bubbles are .25"x.25"
- Action line and outline width is 1pt
- Branch line is 2pt
- Font in bubbles is Segoe UI Light 10 auto scale to shape
- 🔒 indicates read-only
- ✕ indicates deleted branch

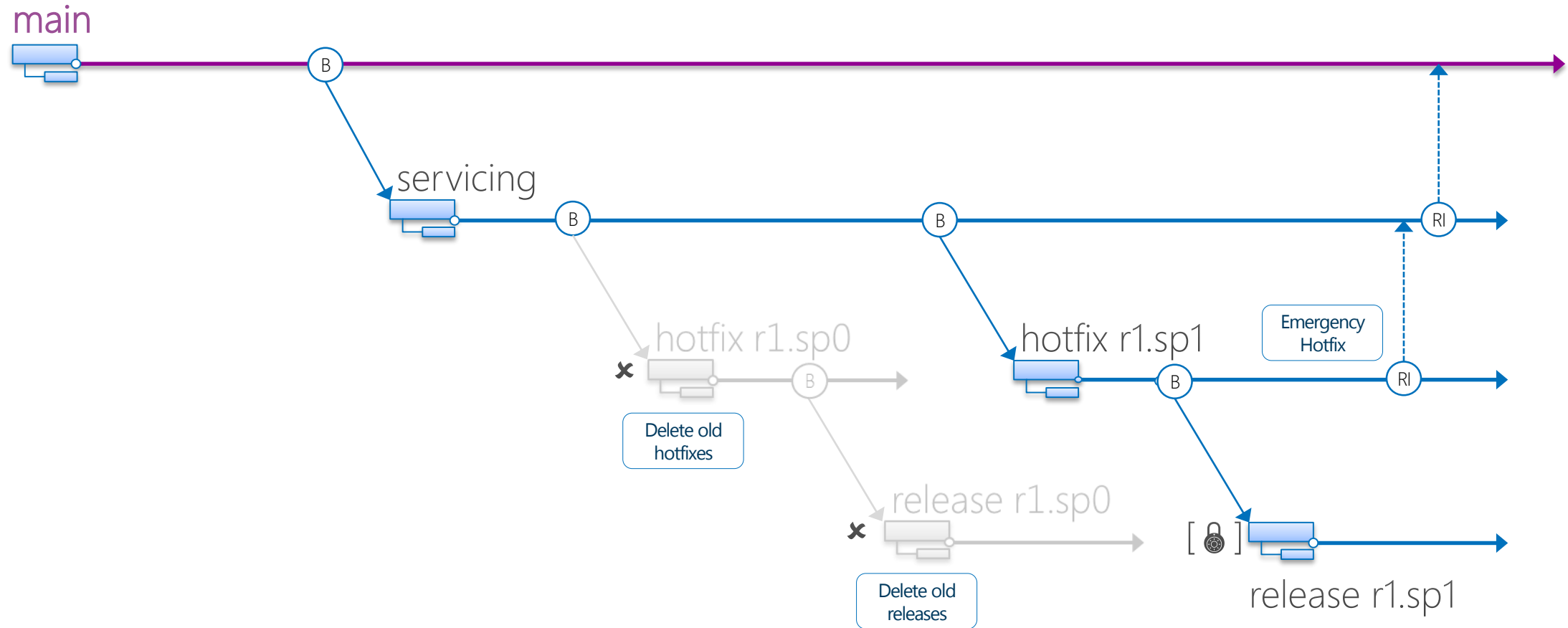




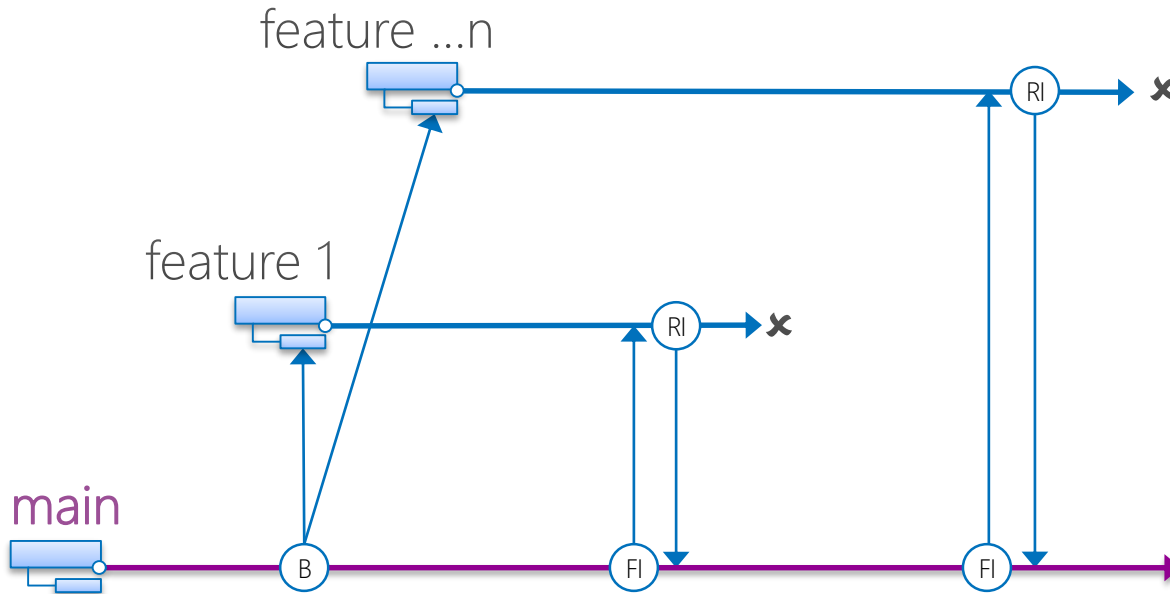


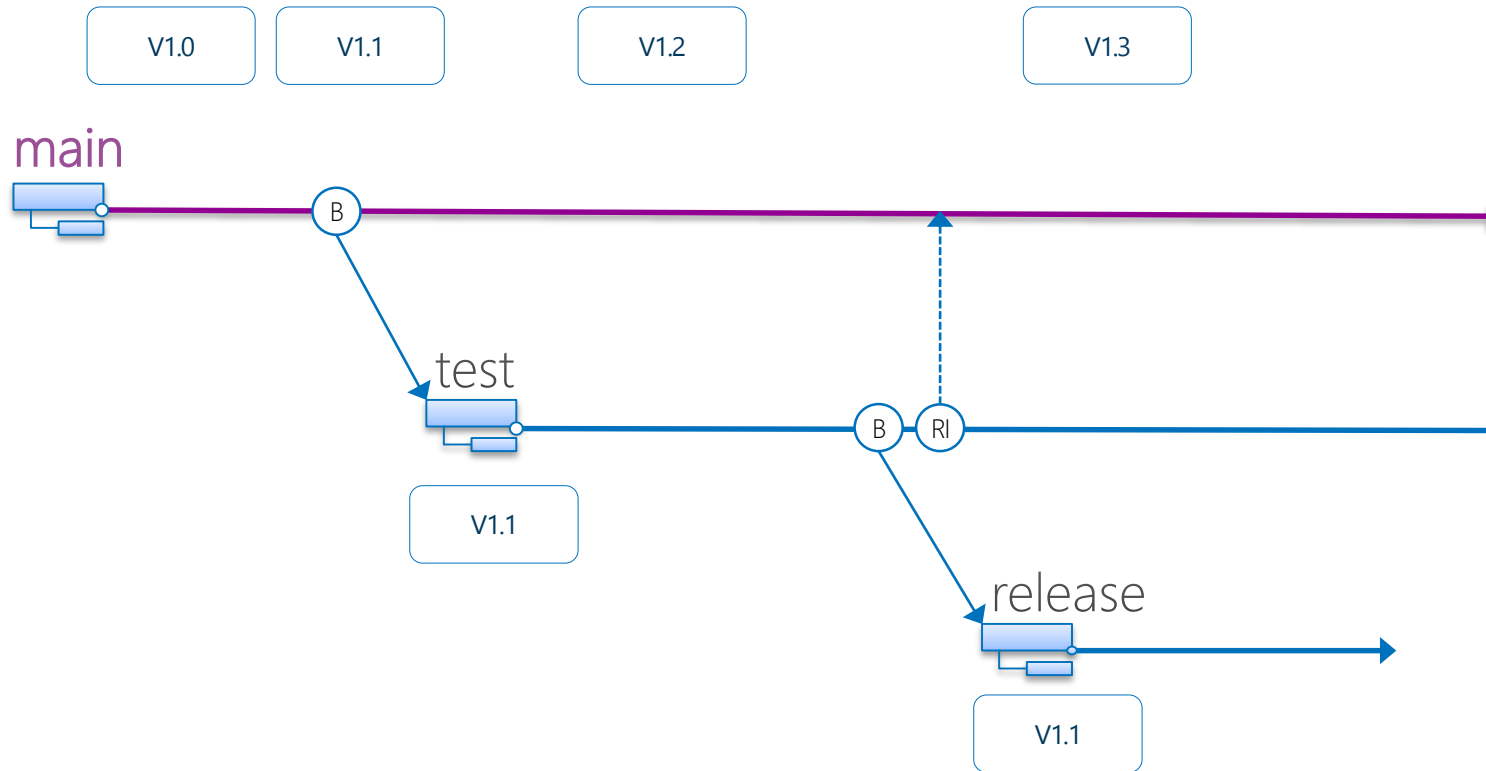


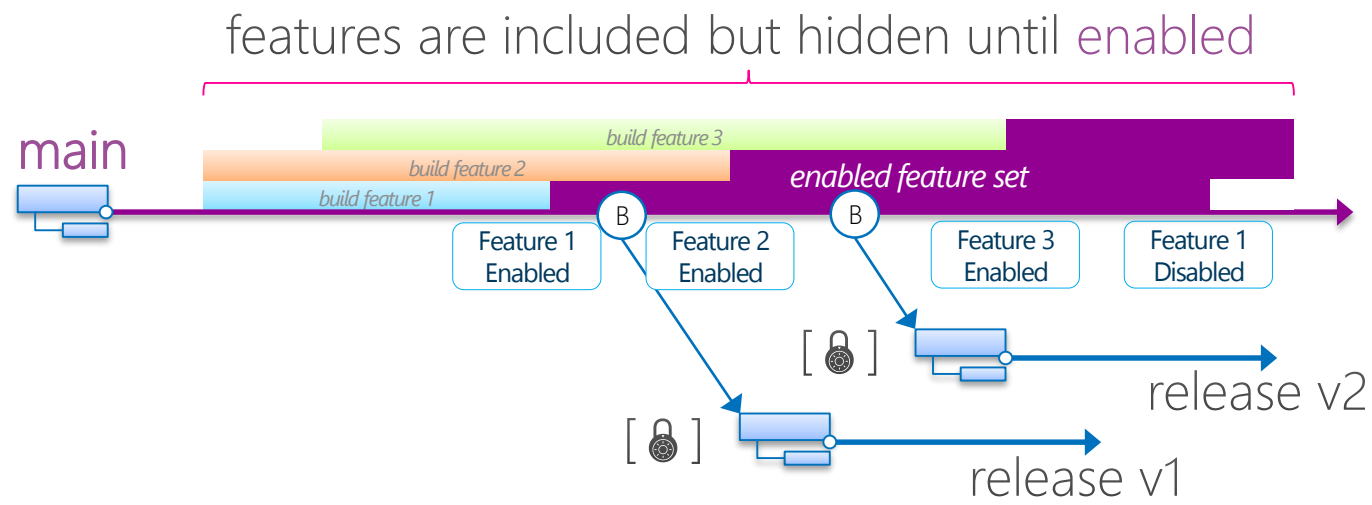
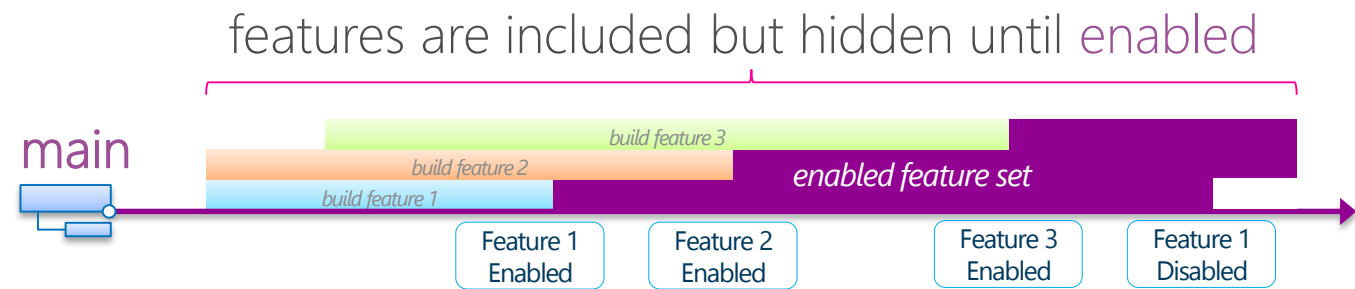
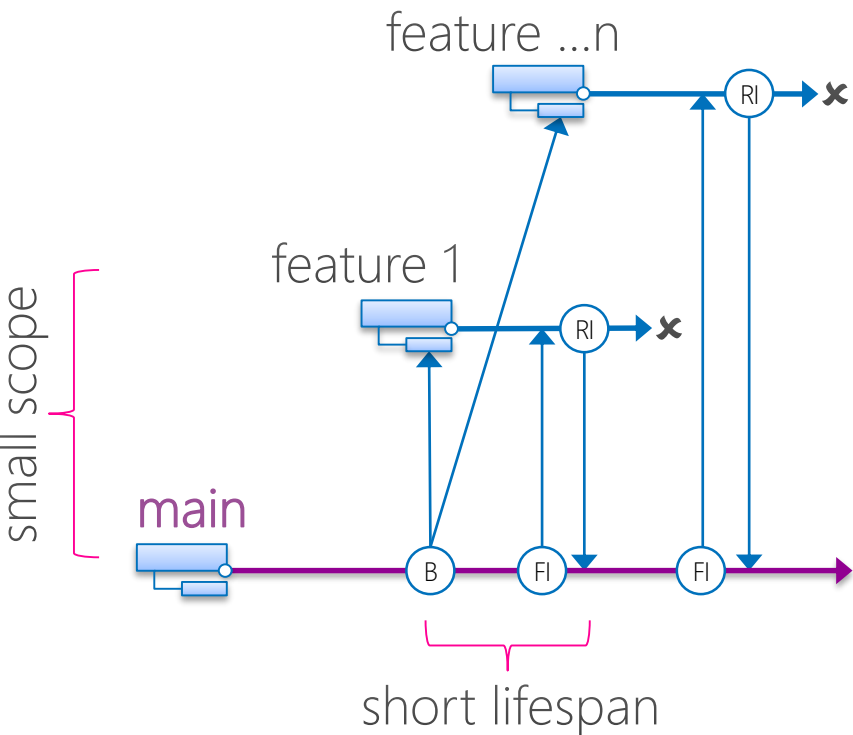


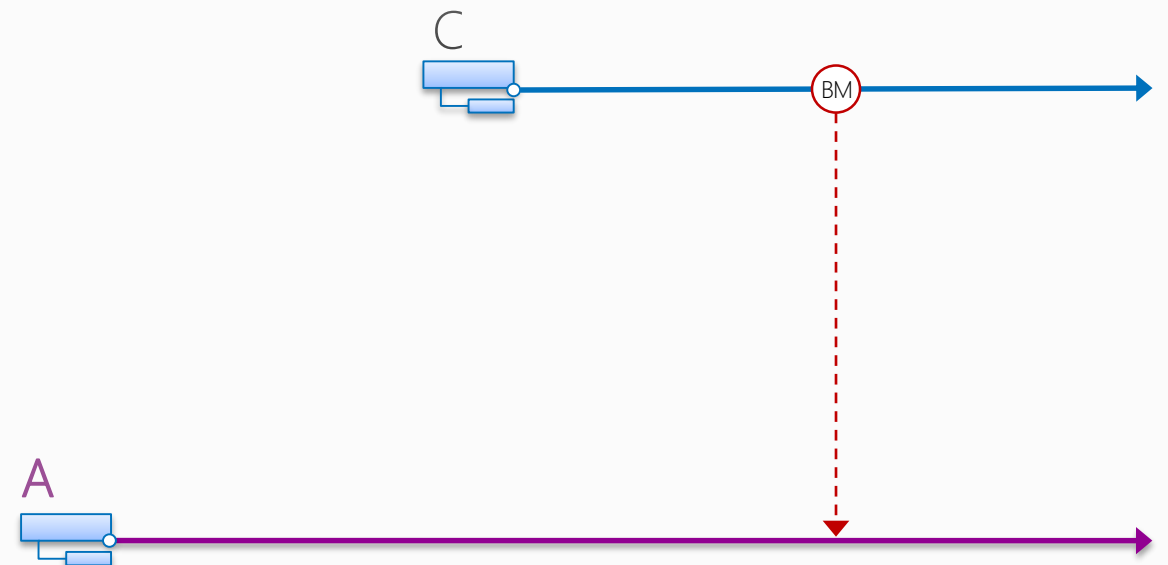
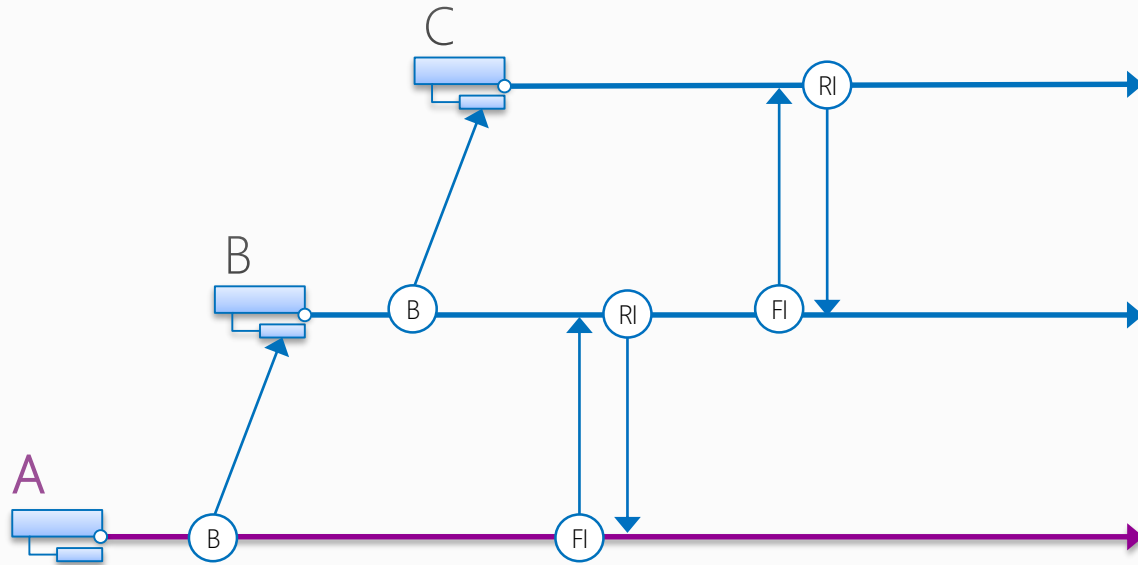


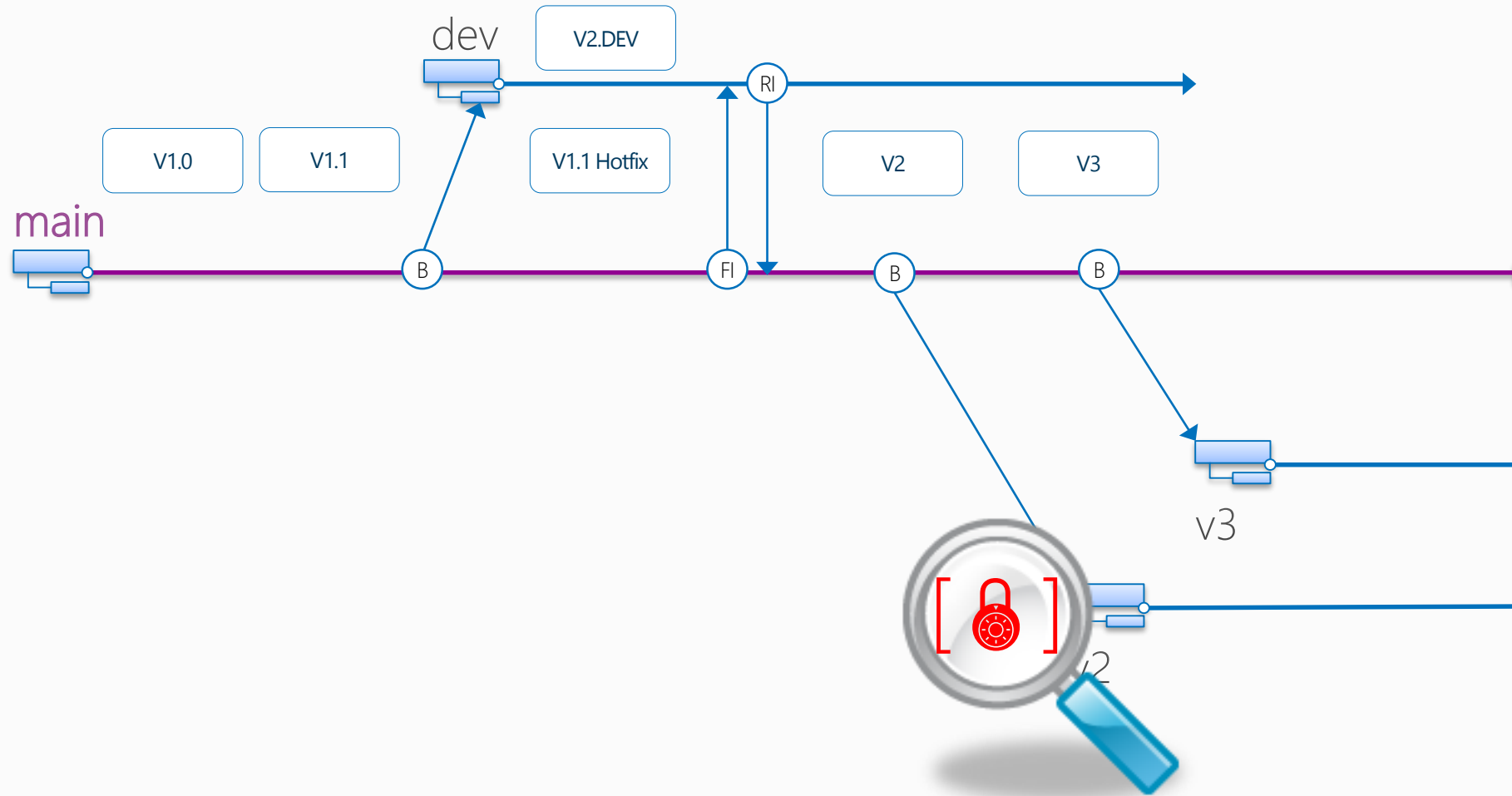


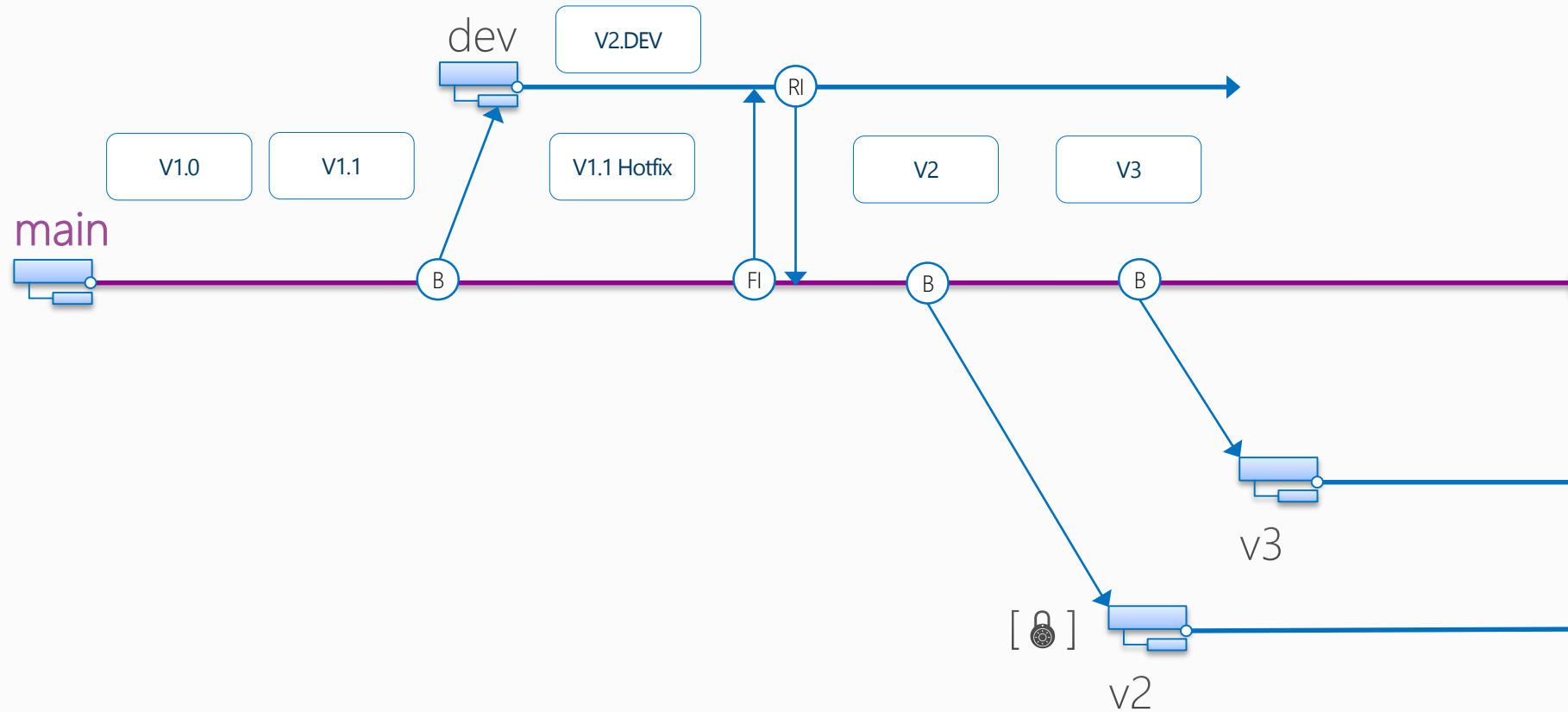




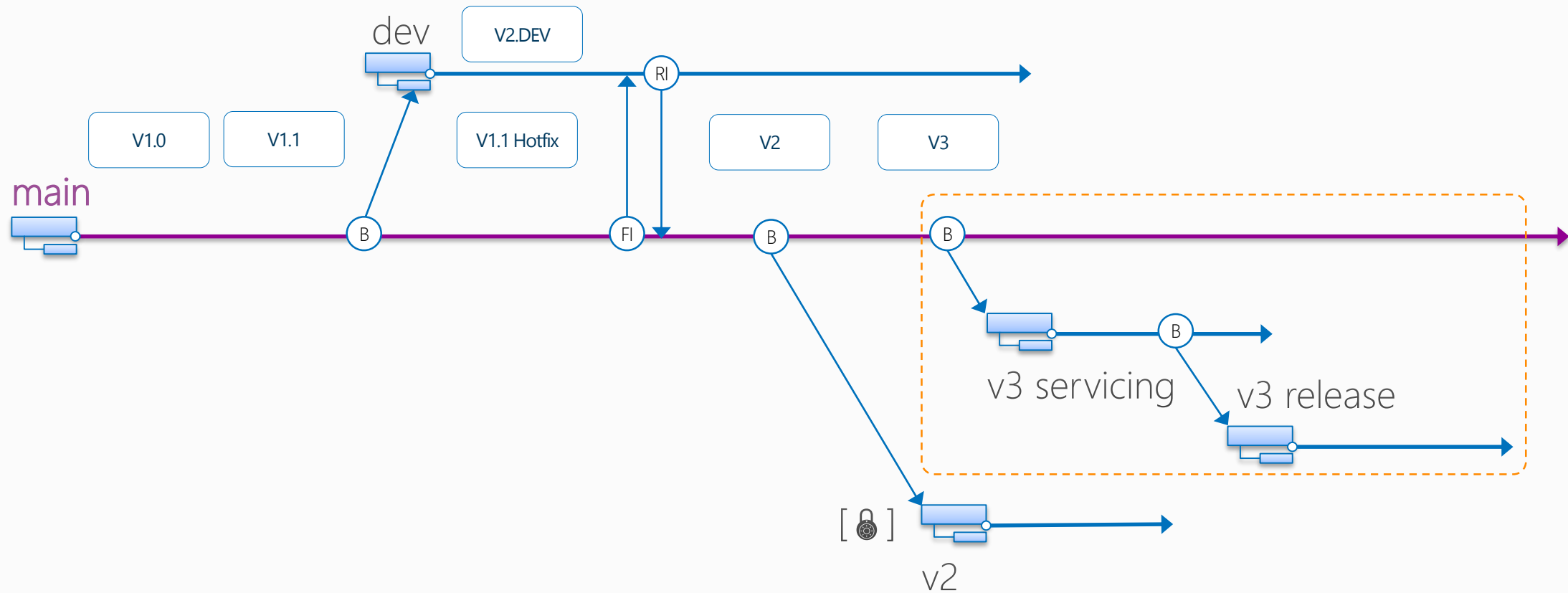


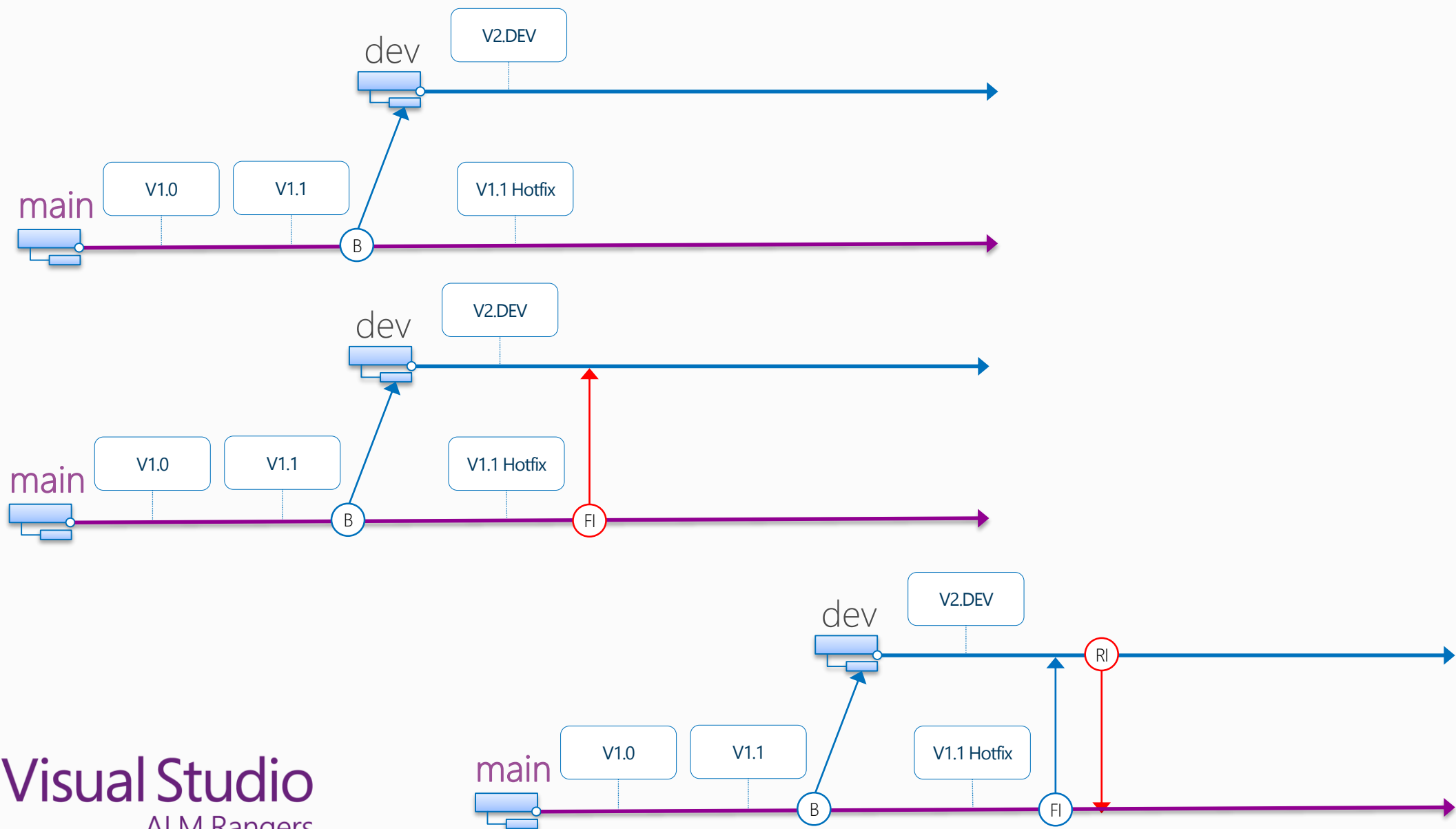


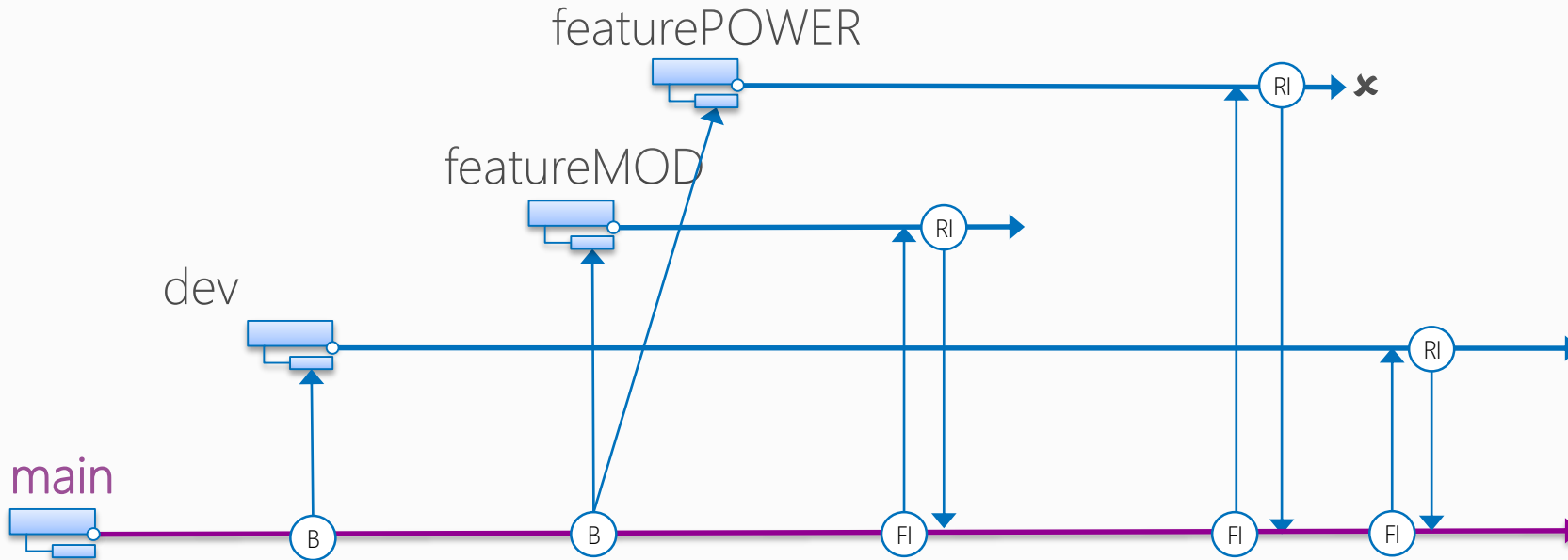


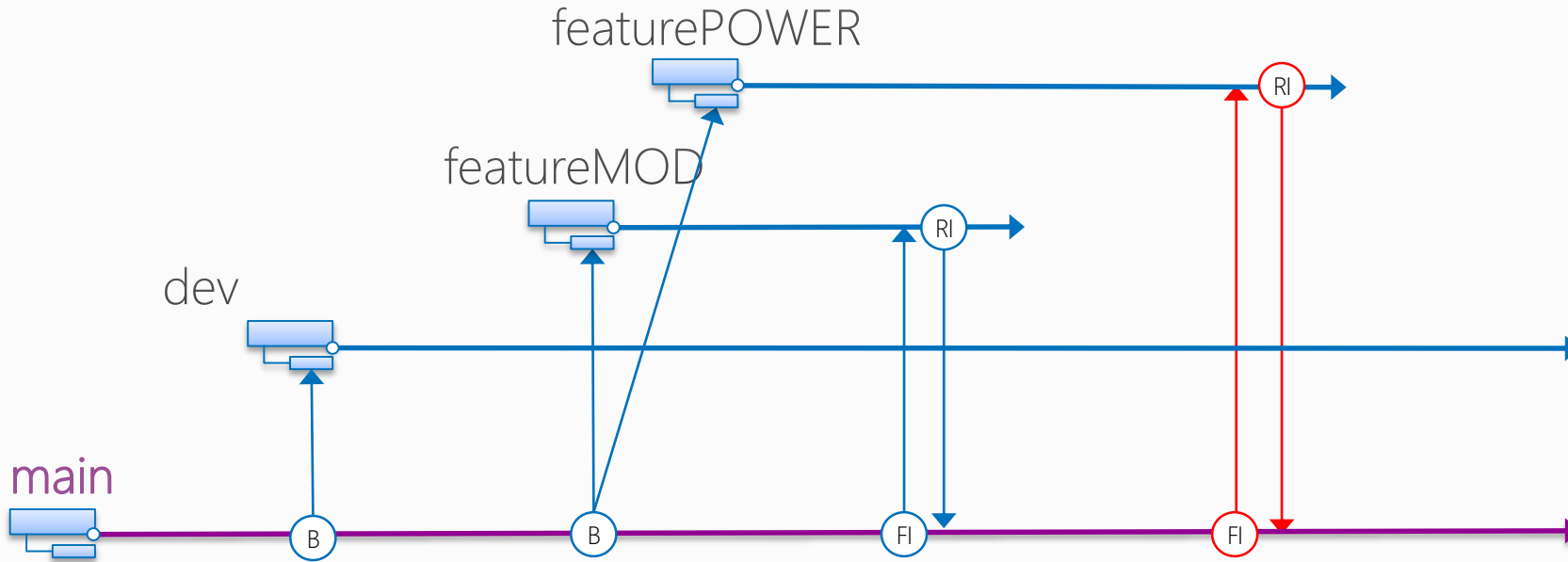


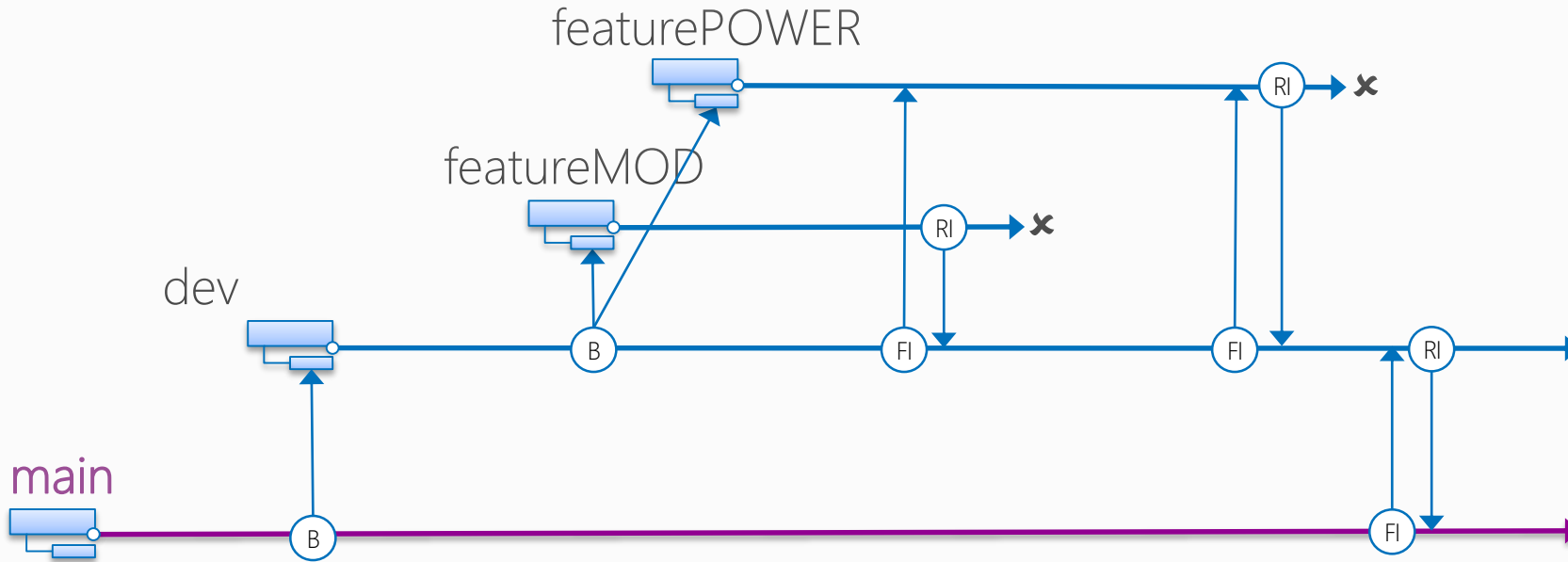


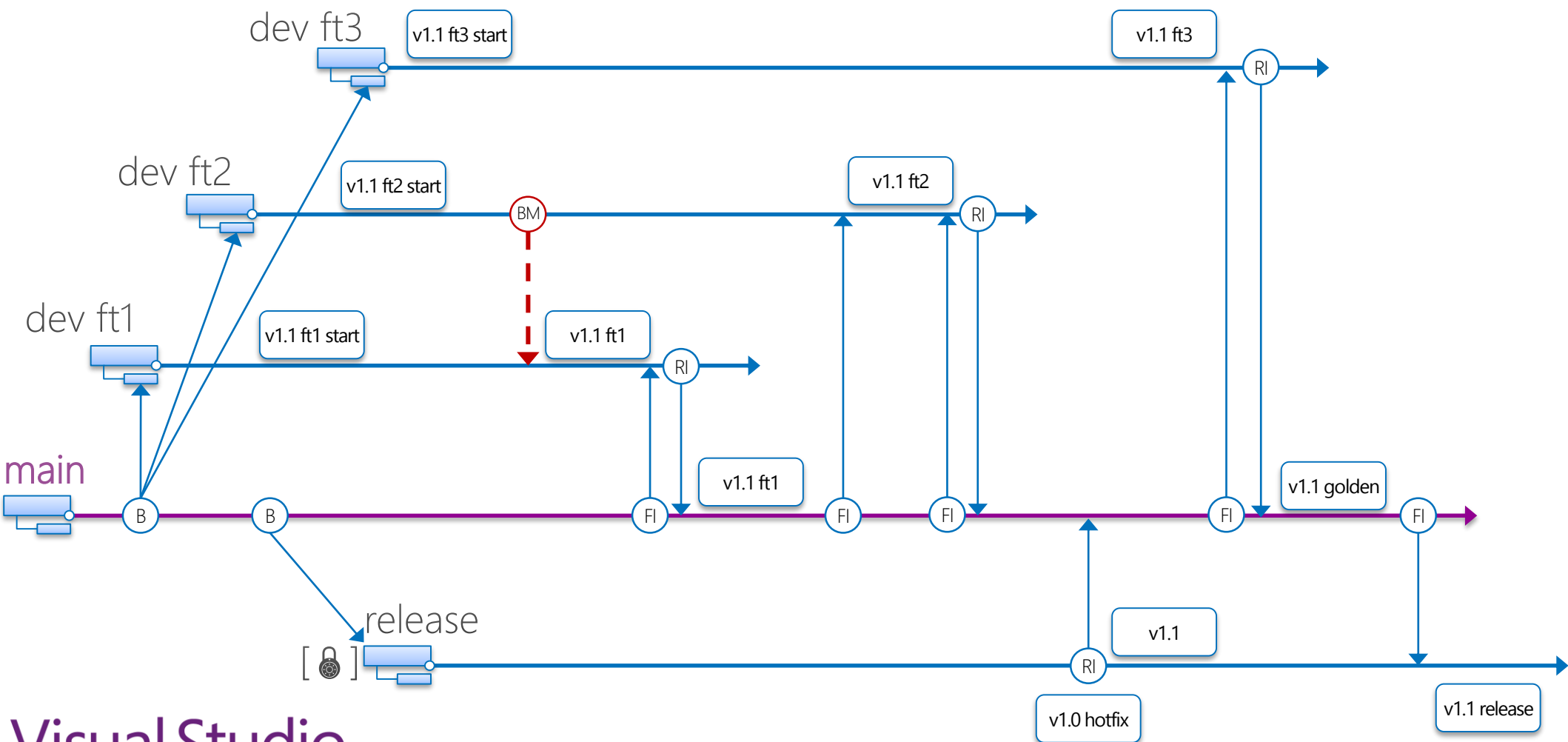






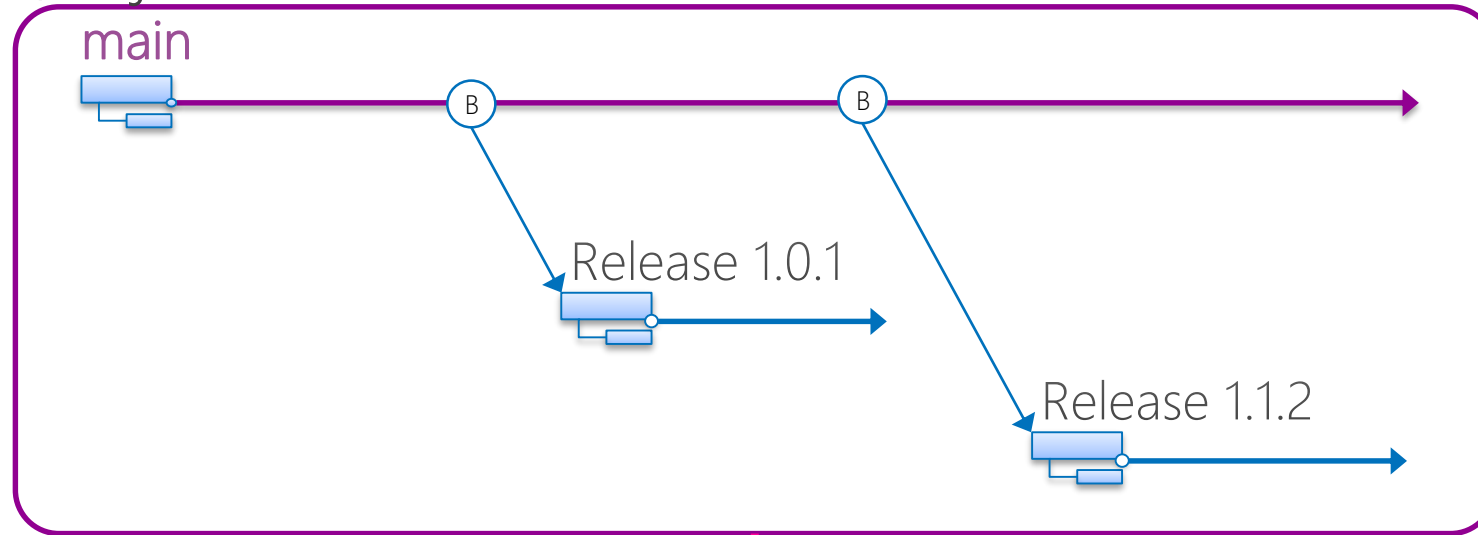








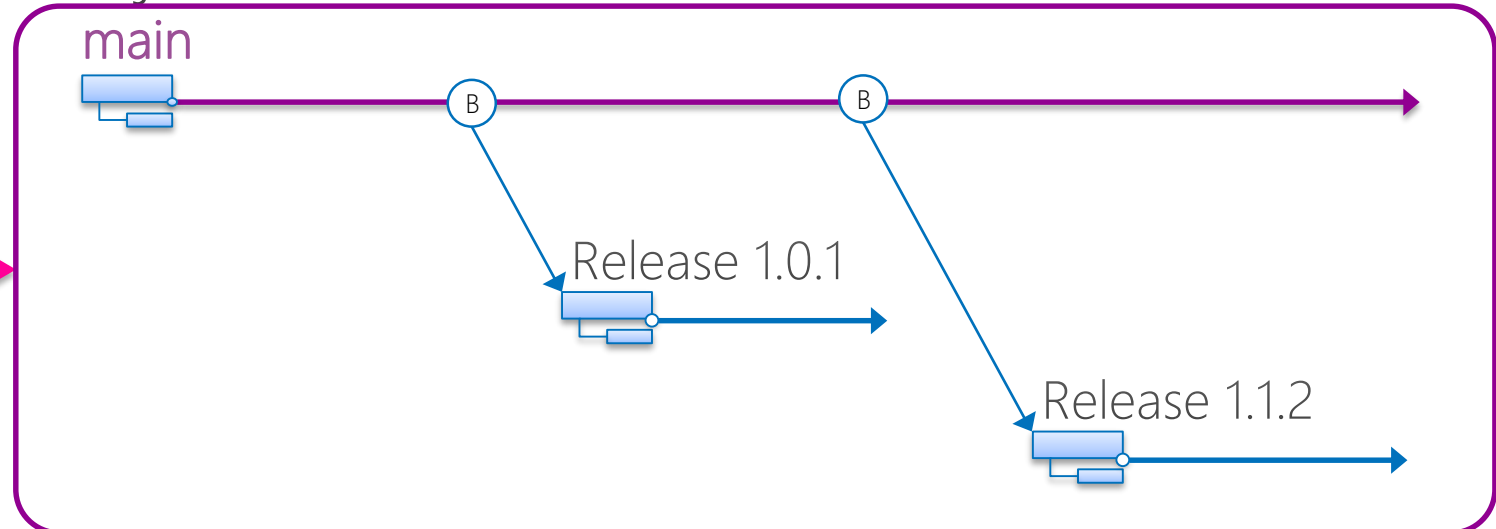
\$/Project1



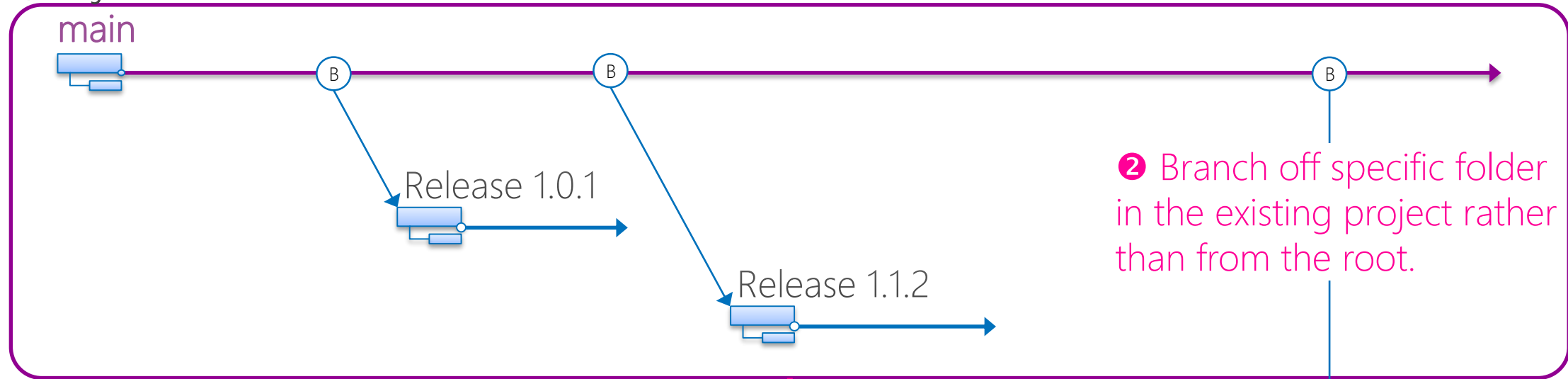
❷ Using the "Create a new source control branch option" ensures that the new TeamProject2 contains all data contained in source control folder of TeamProject 1.

❶ Select "Create a new source control branch option" when creating Team Project

\$/Project2



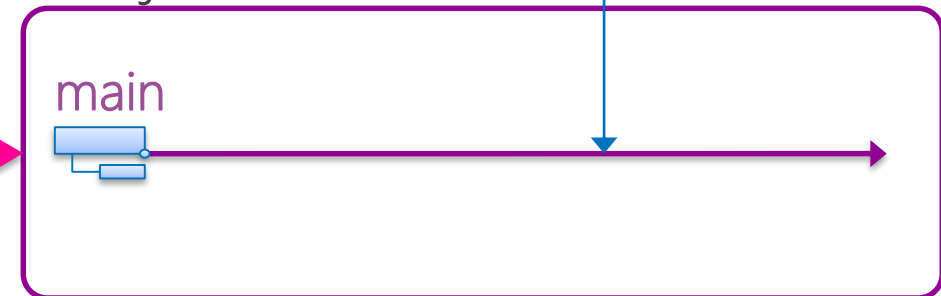
\$/Project1

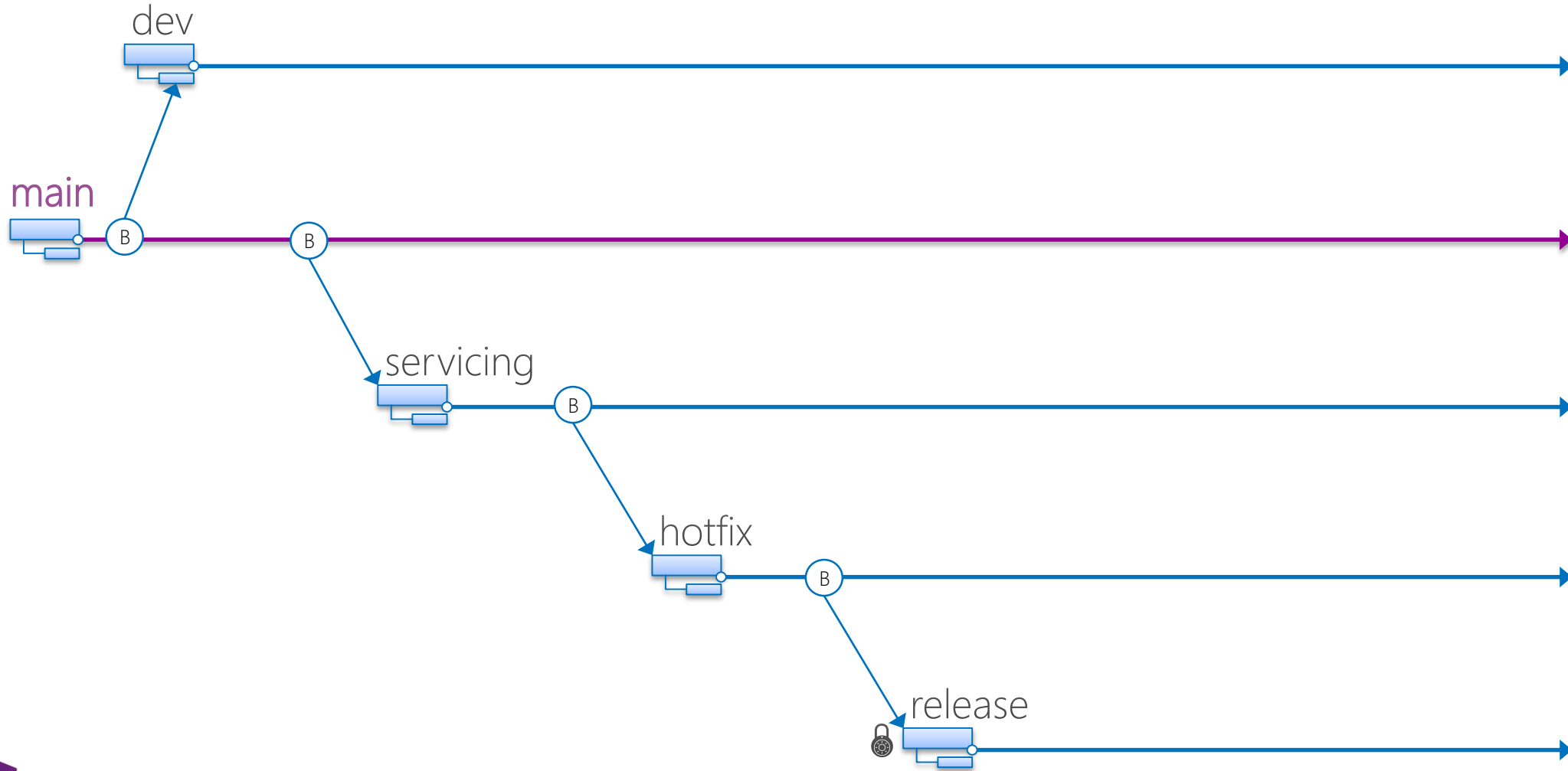


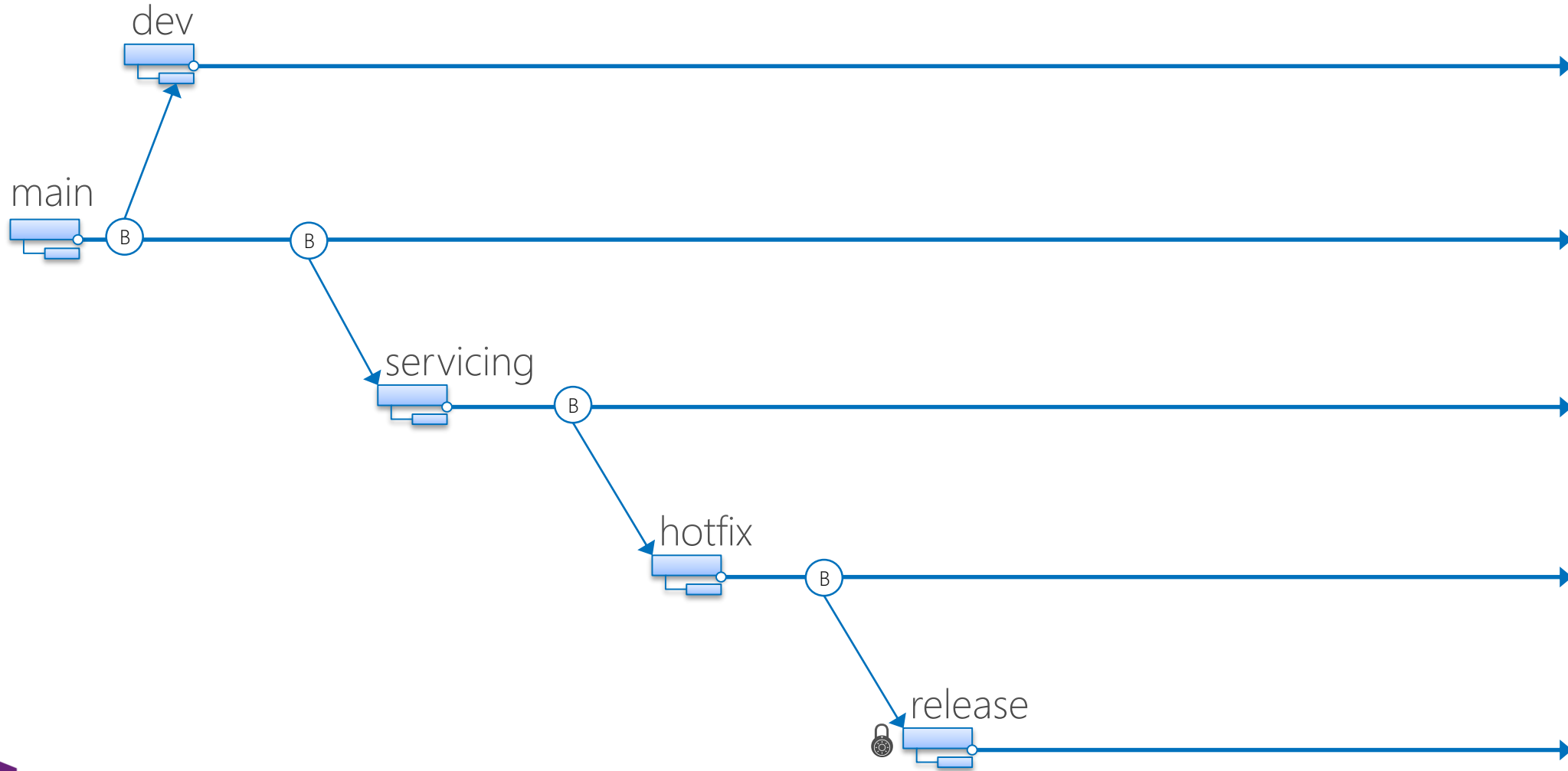
❷ Branch off specific folder in the existing project rather than from the root.

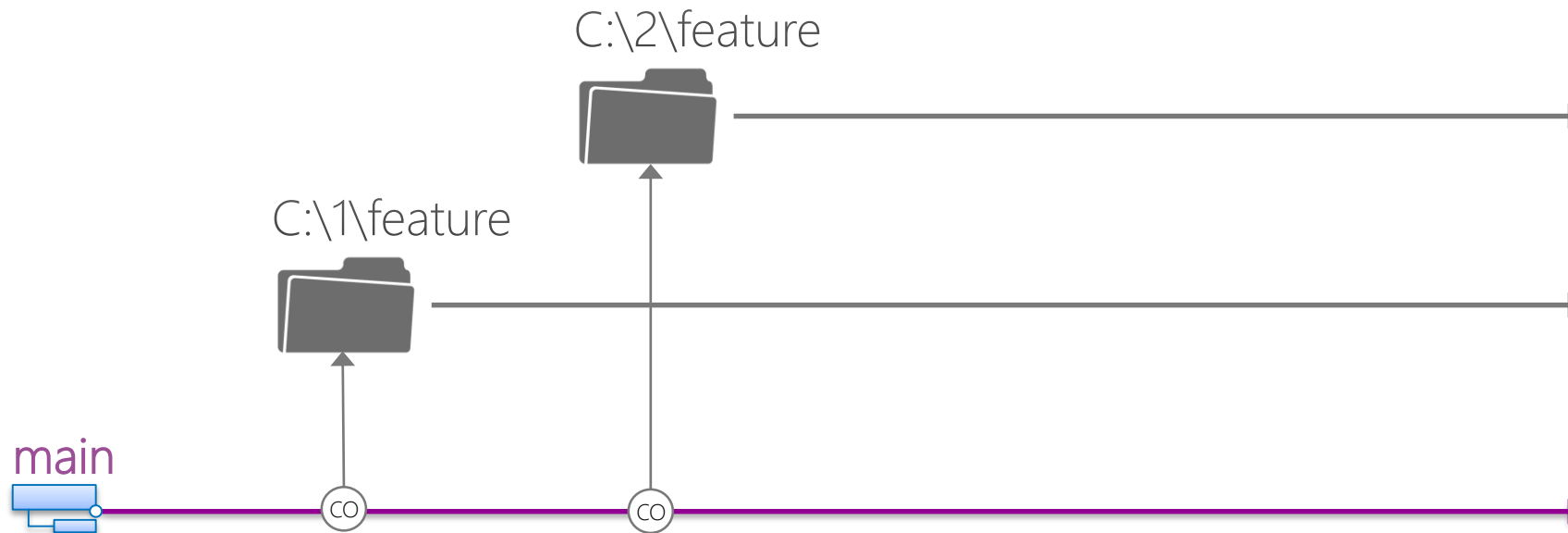
❶ Select "Create an empty source control folder" when creating Team Project

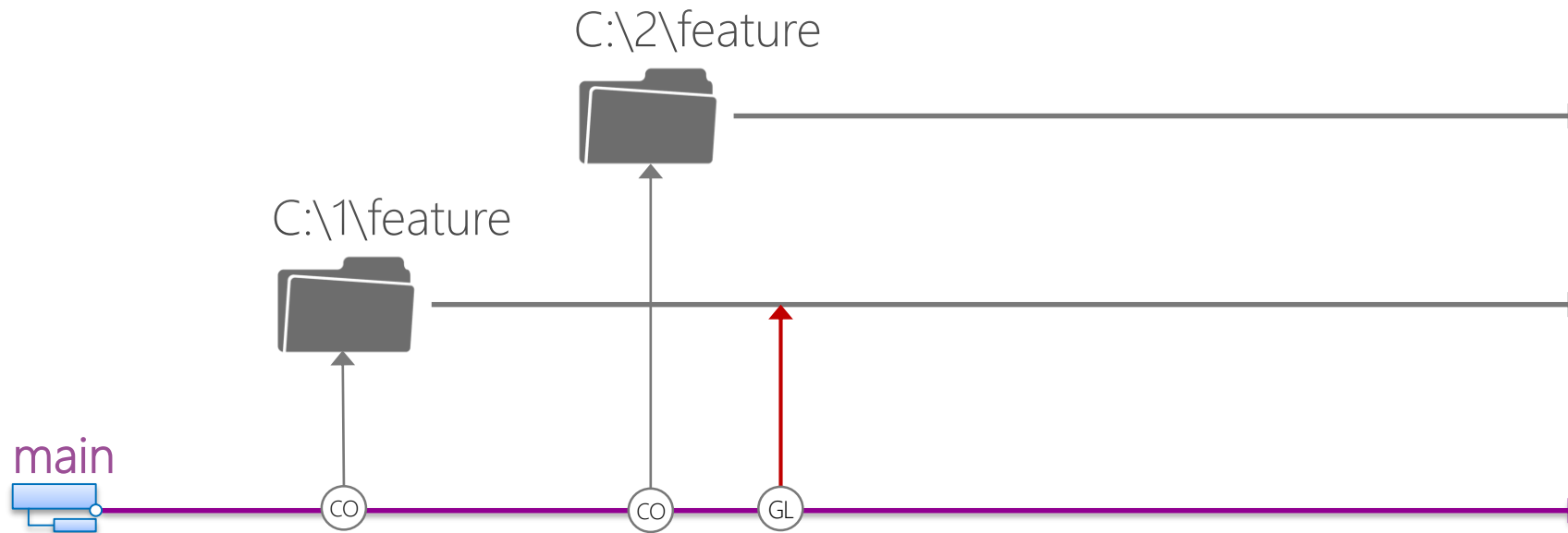
\$/Project2



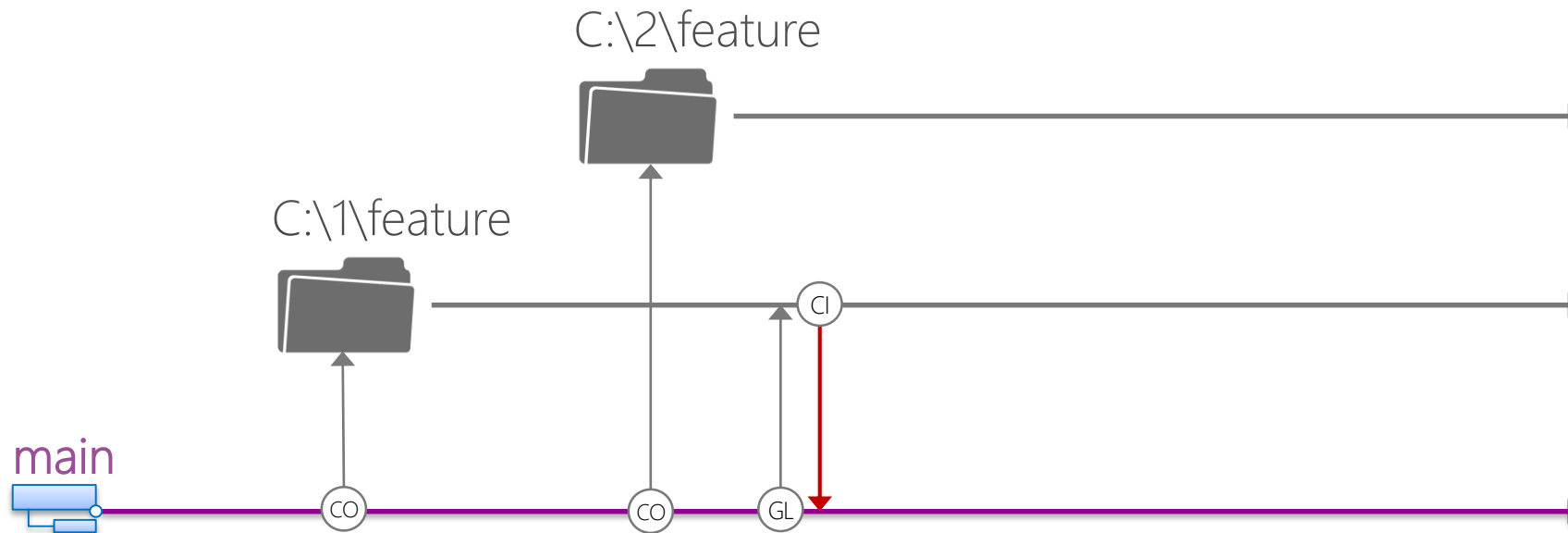


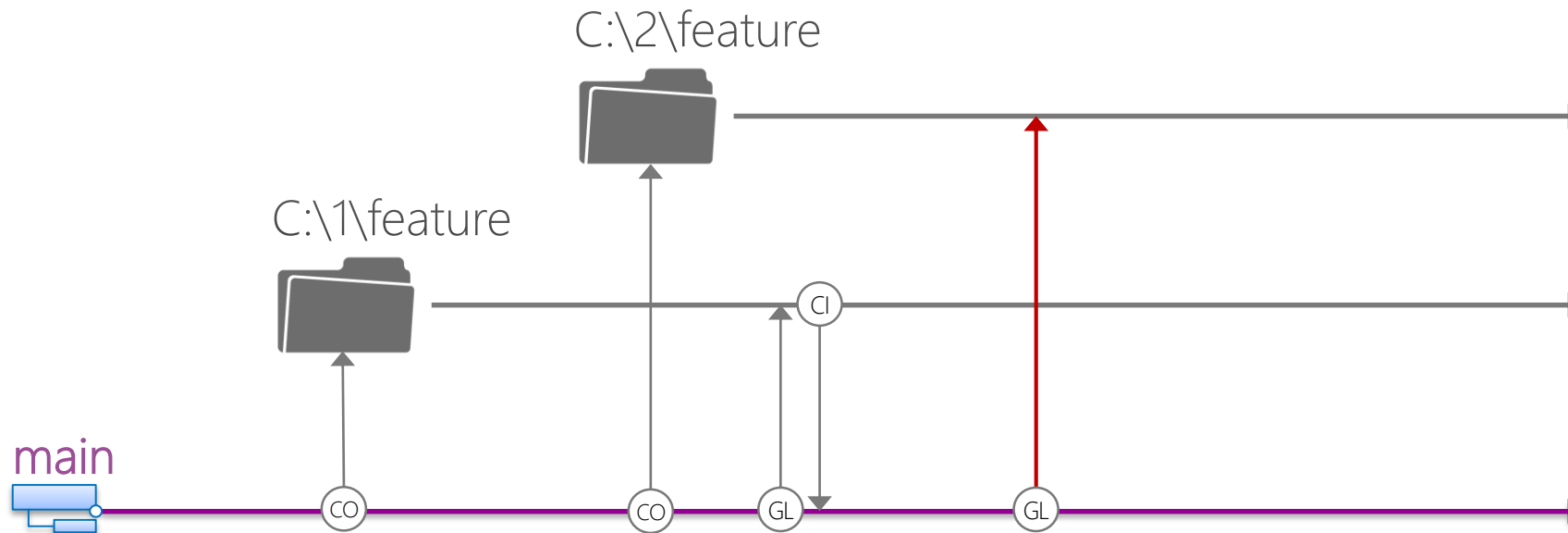


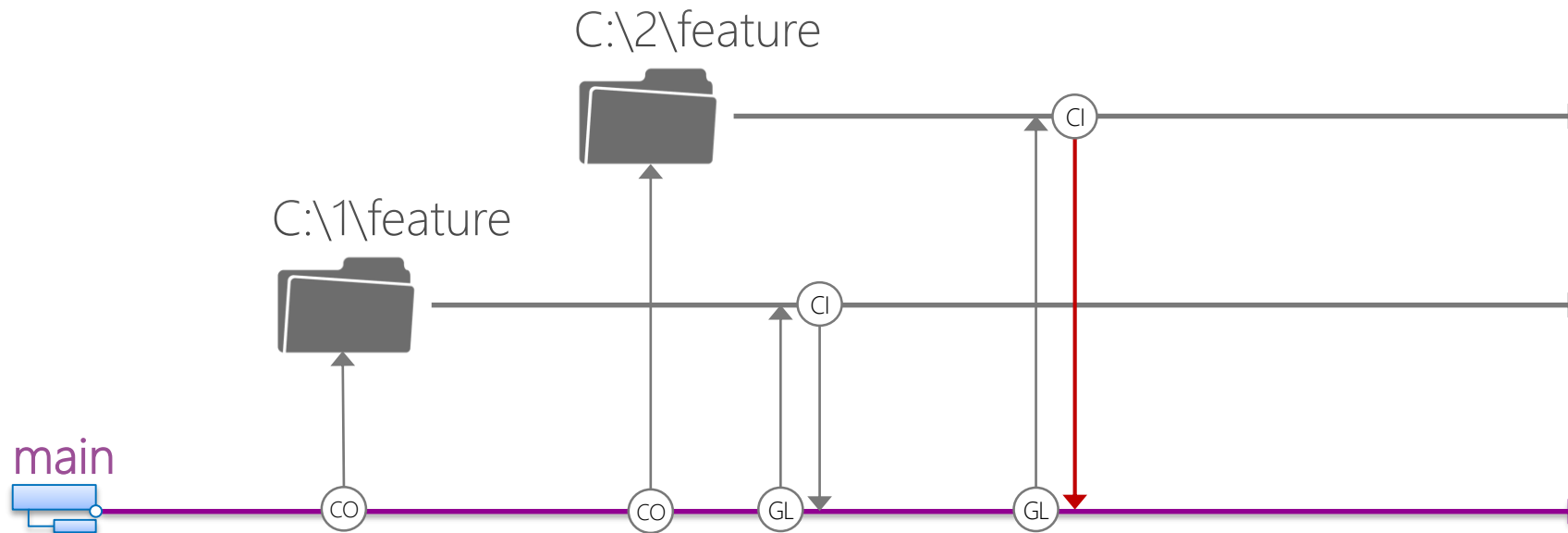


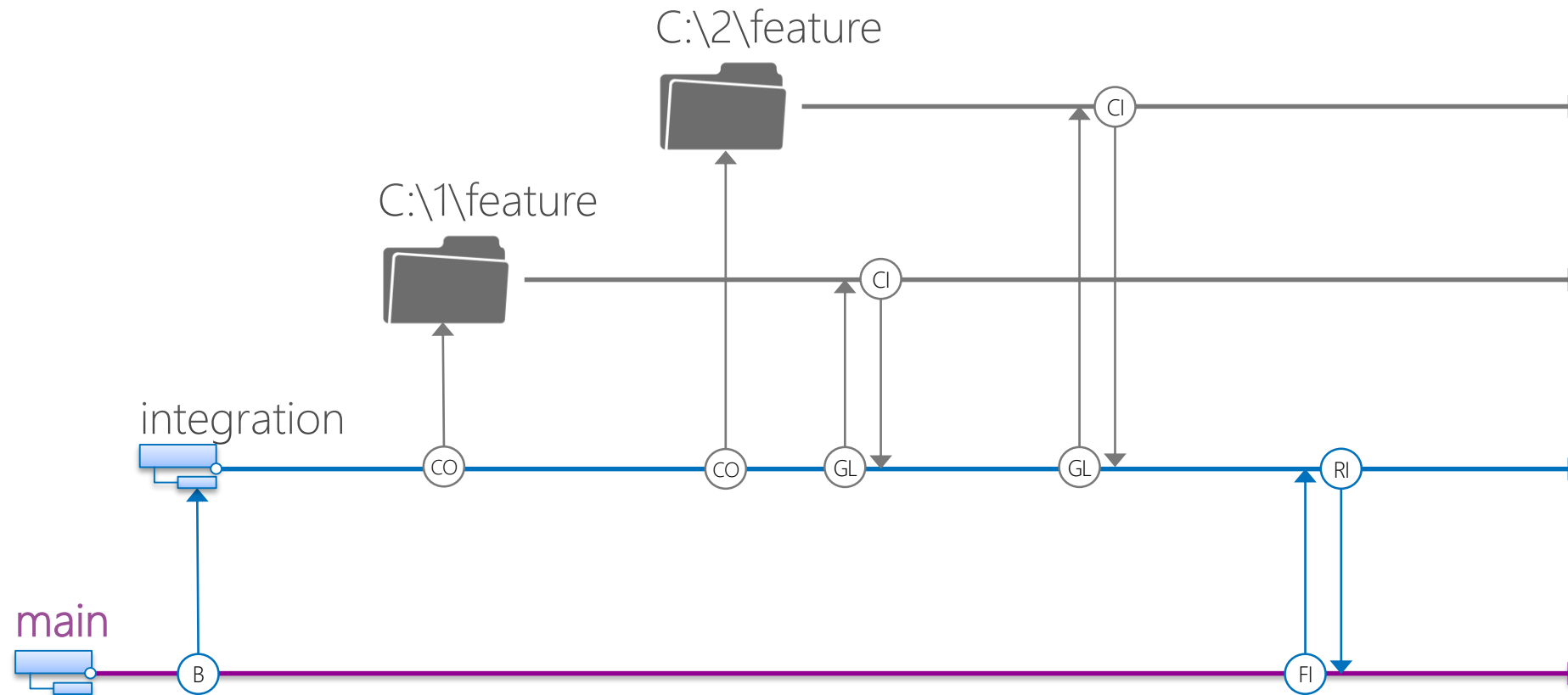


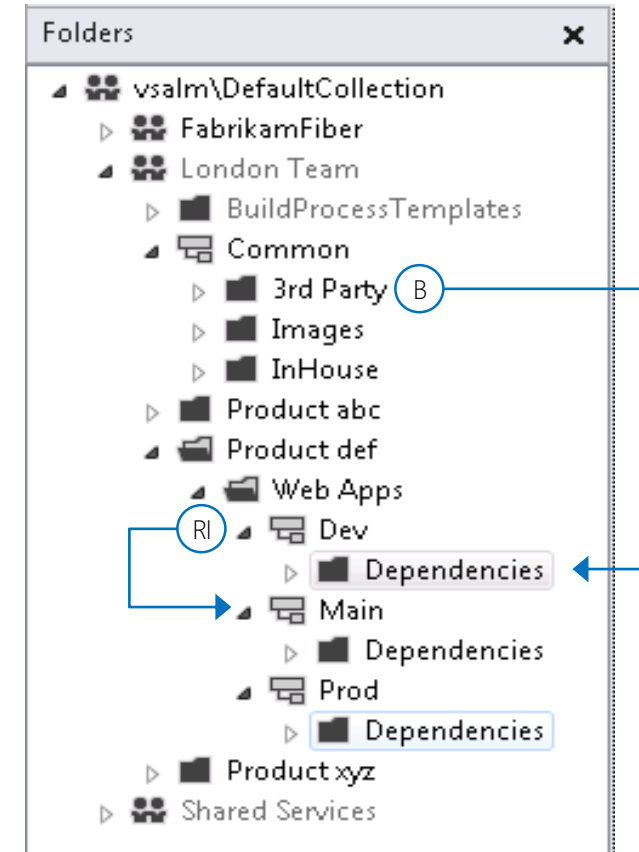
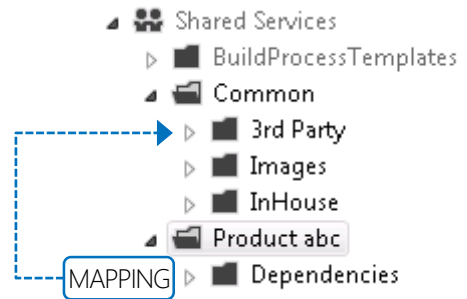


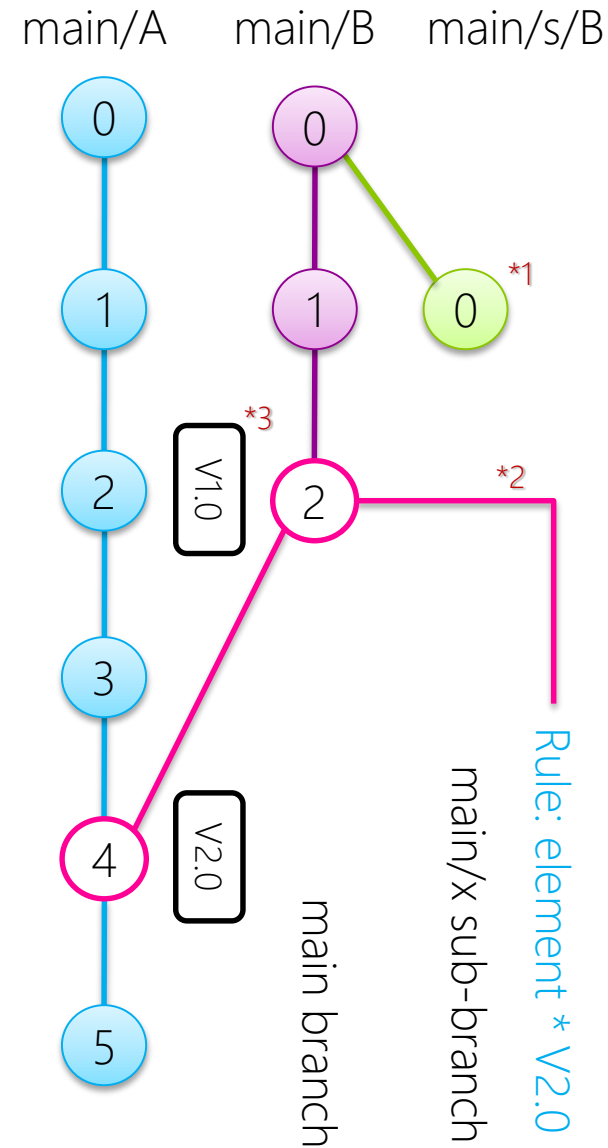






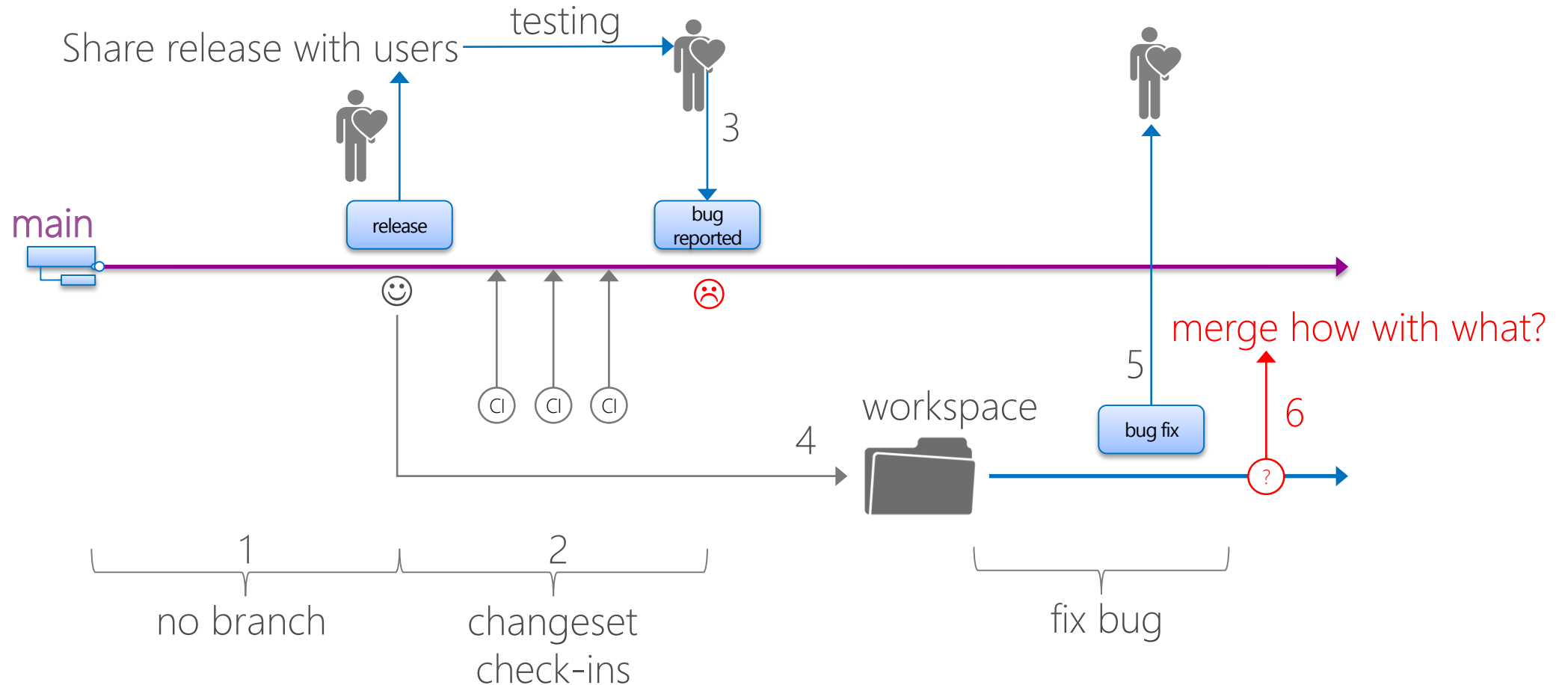


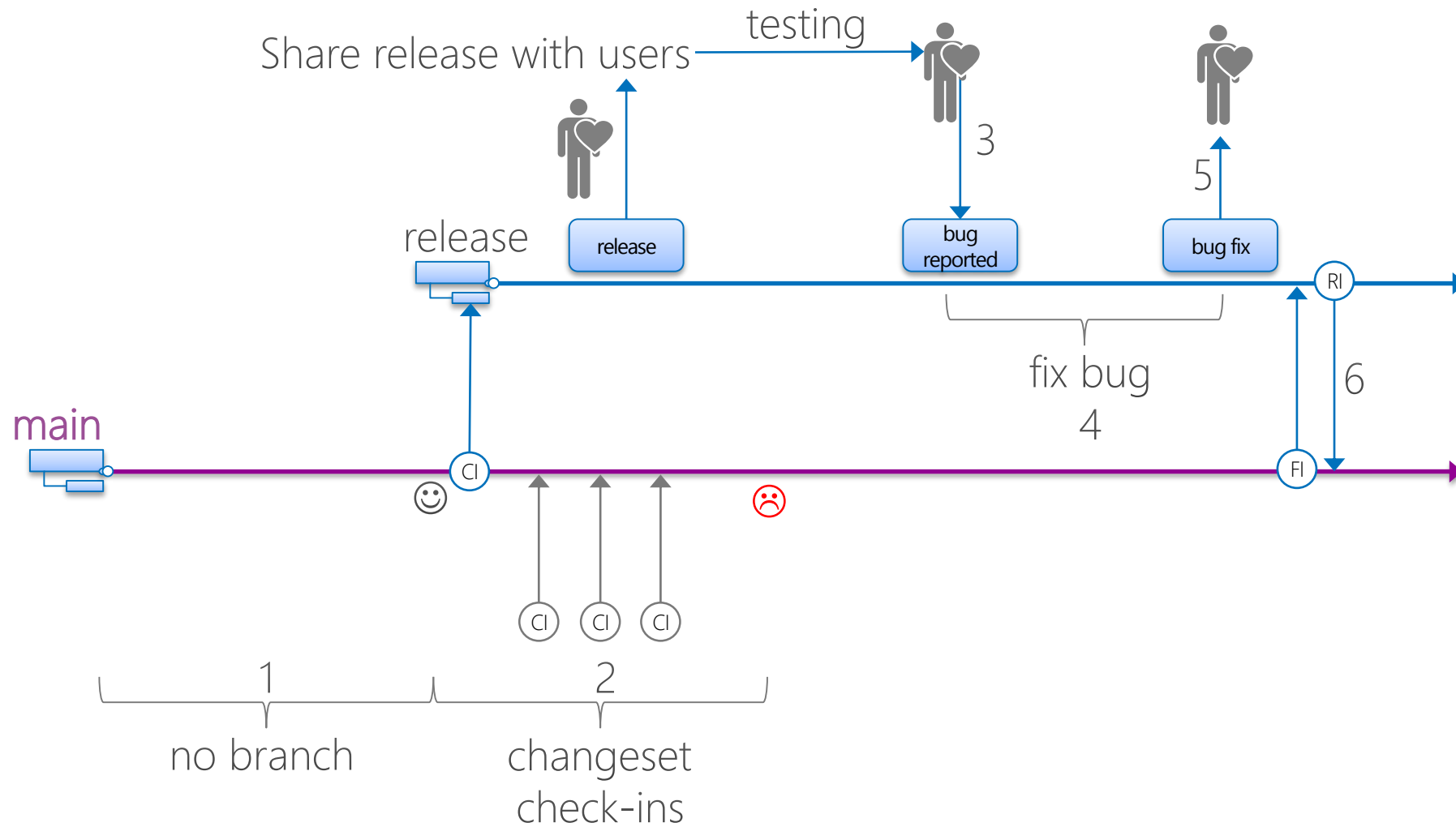


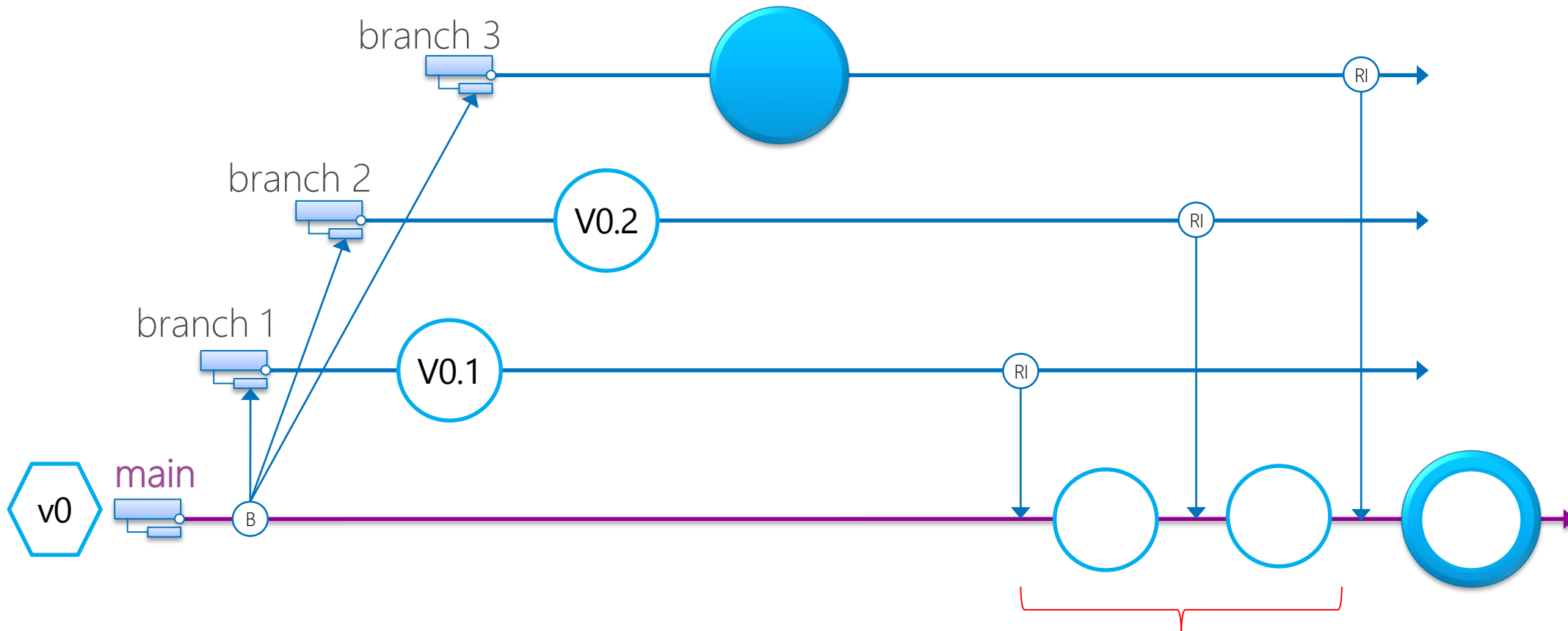




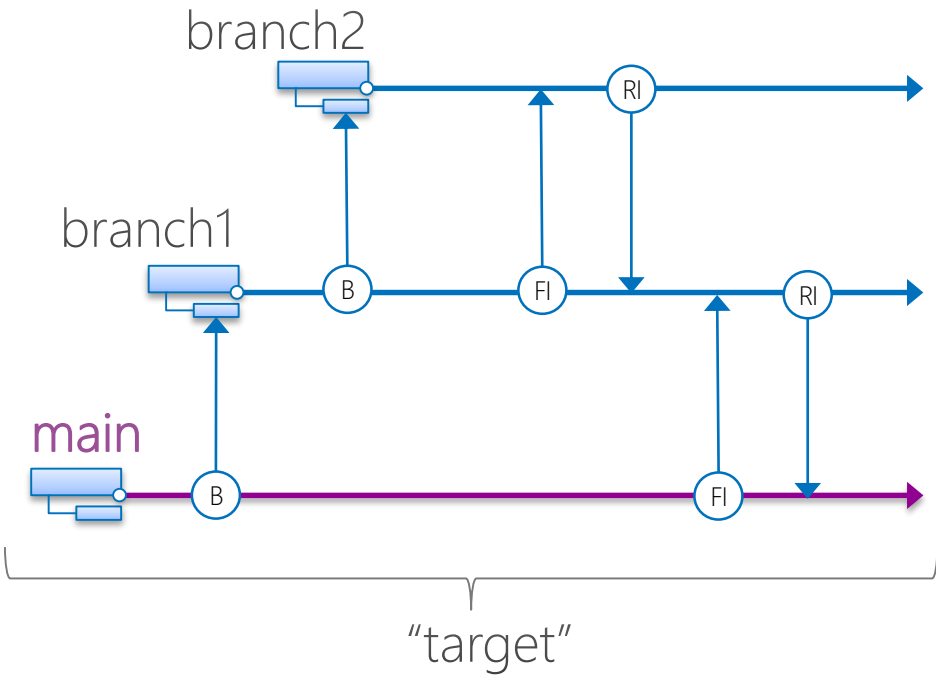
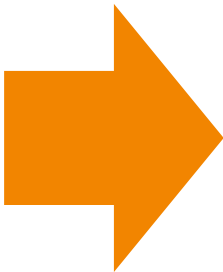
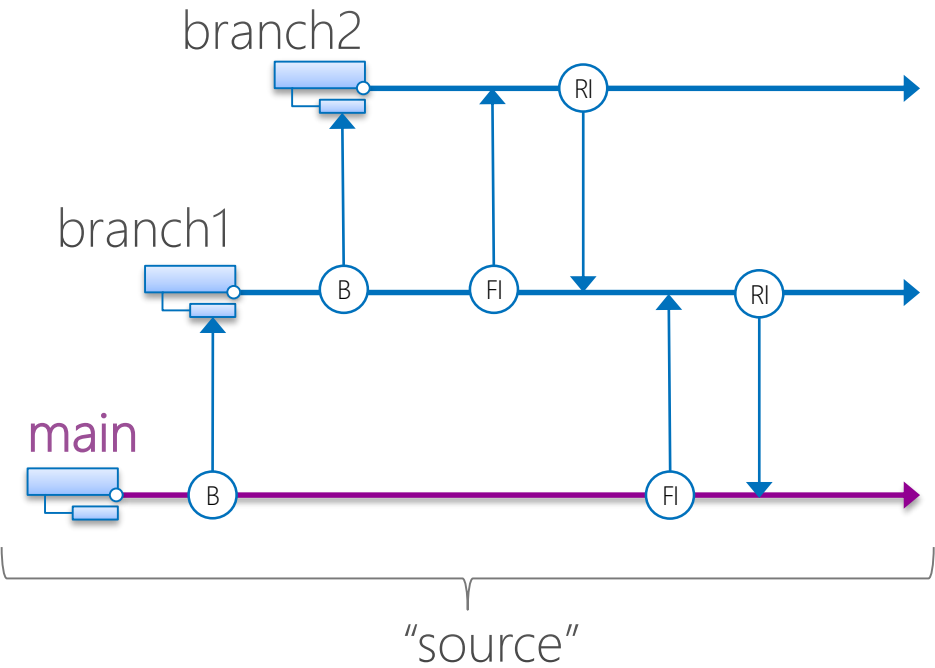








Same feature re=-created ... we should develop once and share!



logical tree view

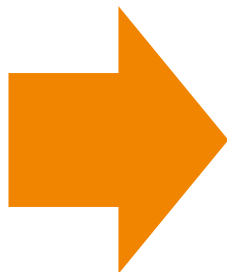
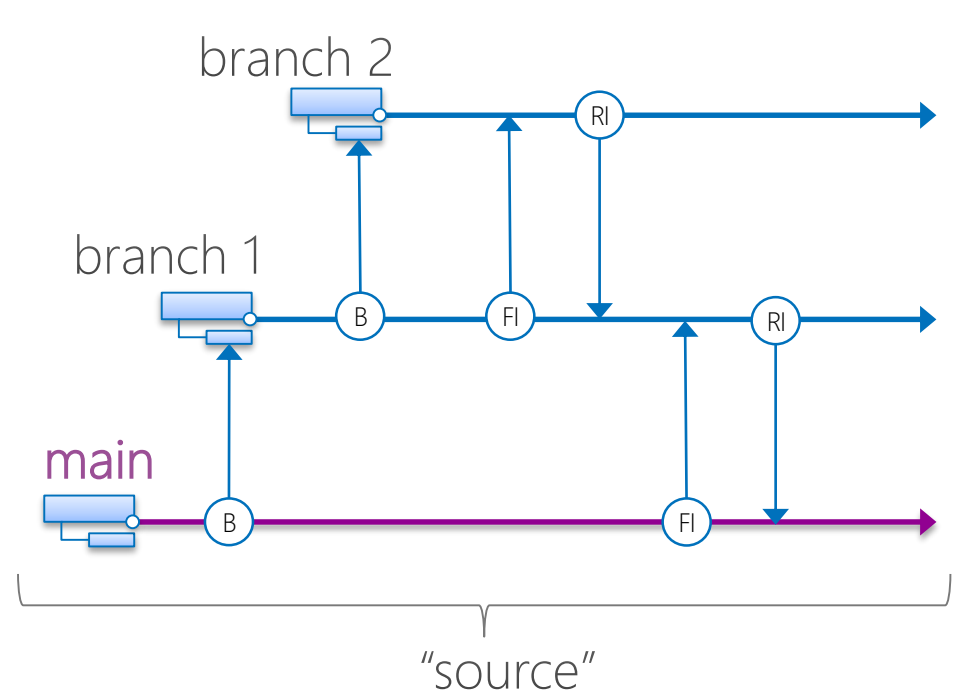
Paths (in session config)

Local Path: [c:\temp\space](#)

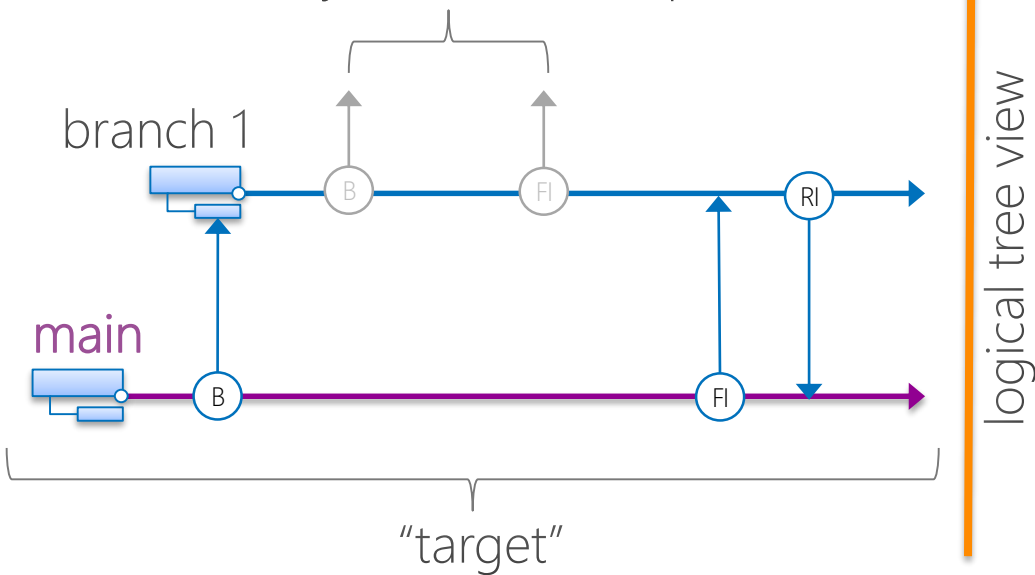
Name ▲

- branch1
- branch2
- BuildProcessTemplates
- main

Physical (file) view



skip branch and forward integration actions  
as they are out of scope

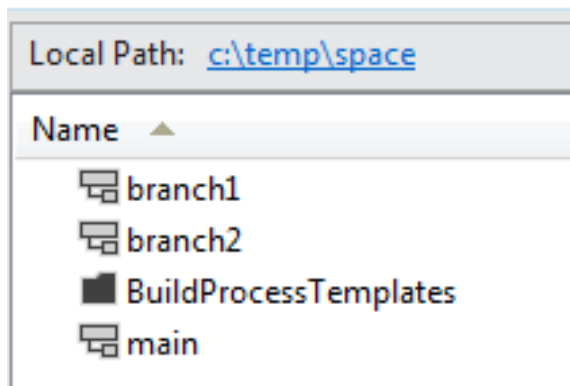


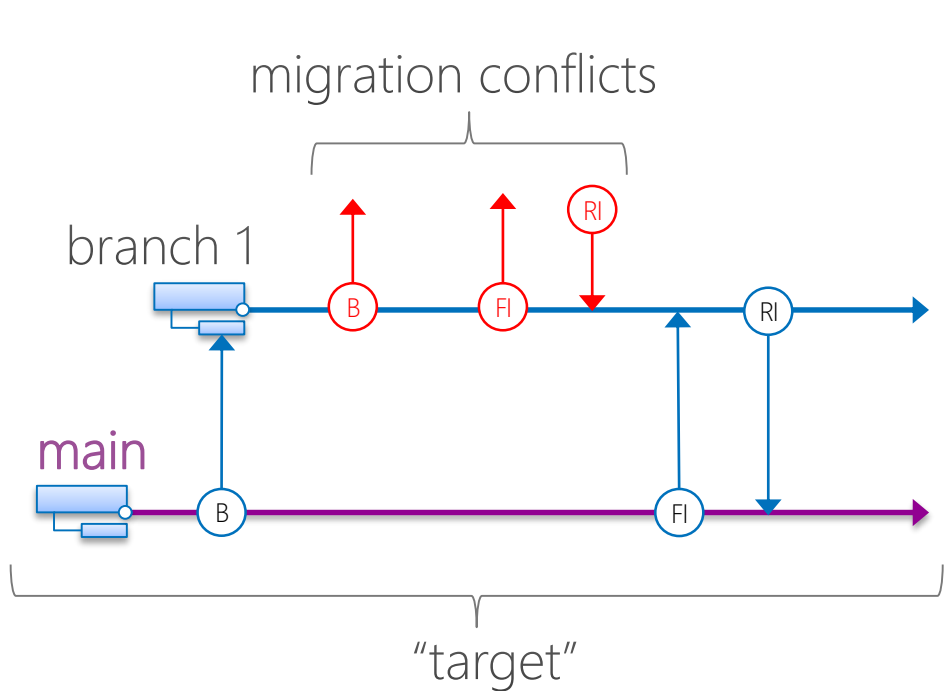
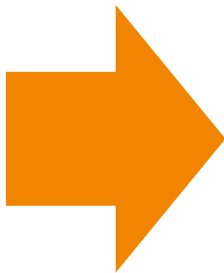
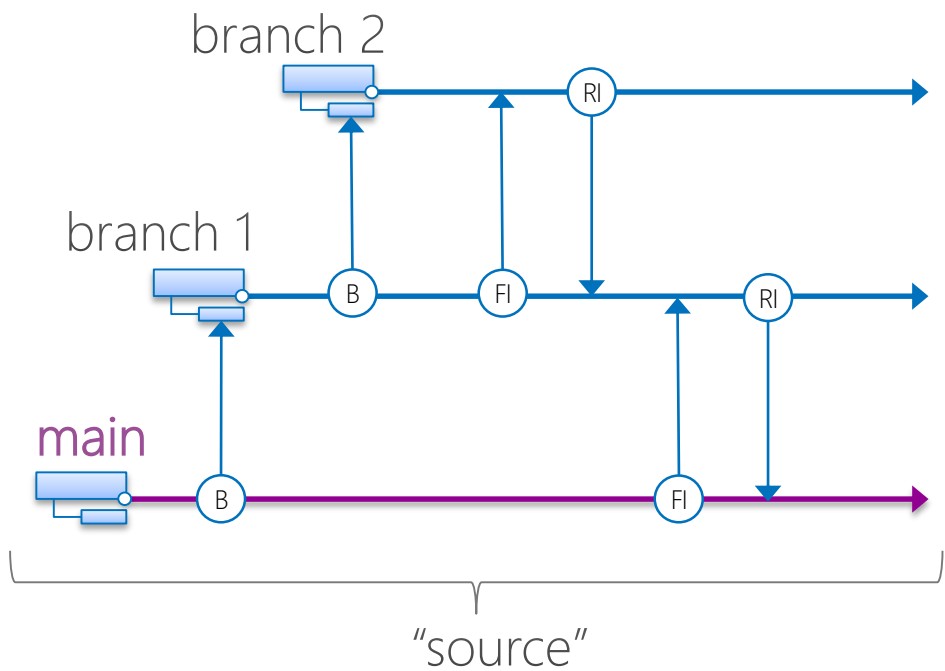
Paths (in session config)

Active

\$/space/branch1

mergescope = \$/space/branch1





logical tree view

Paths (in session config)

Active	\$/space
Cloaked	\$/space/branch2

Local Path: [c:\temp\space](#)

Name
branch1
branch2
BuildProcessTemplates
main

Physical (file) view



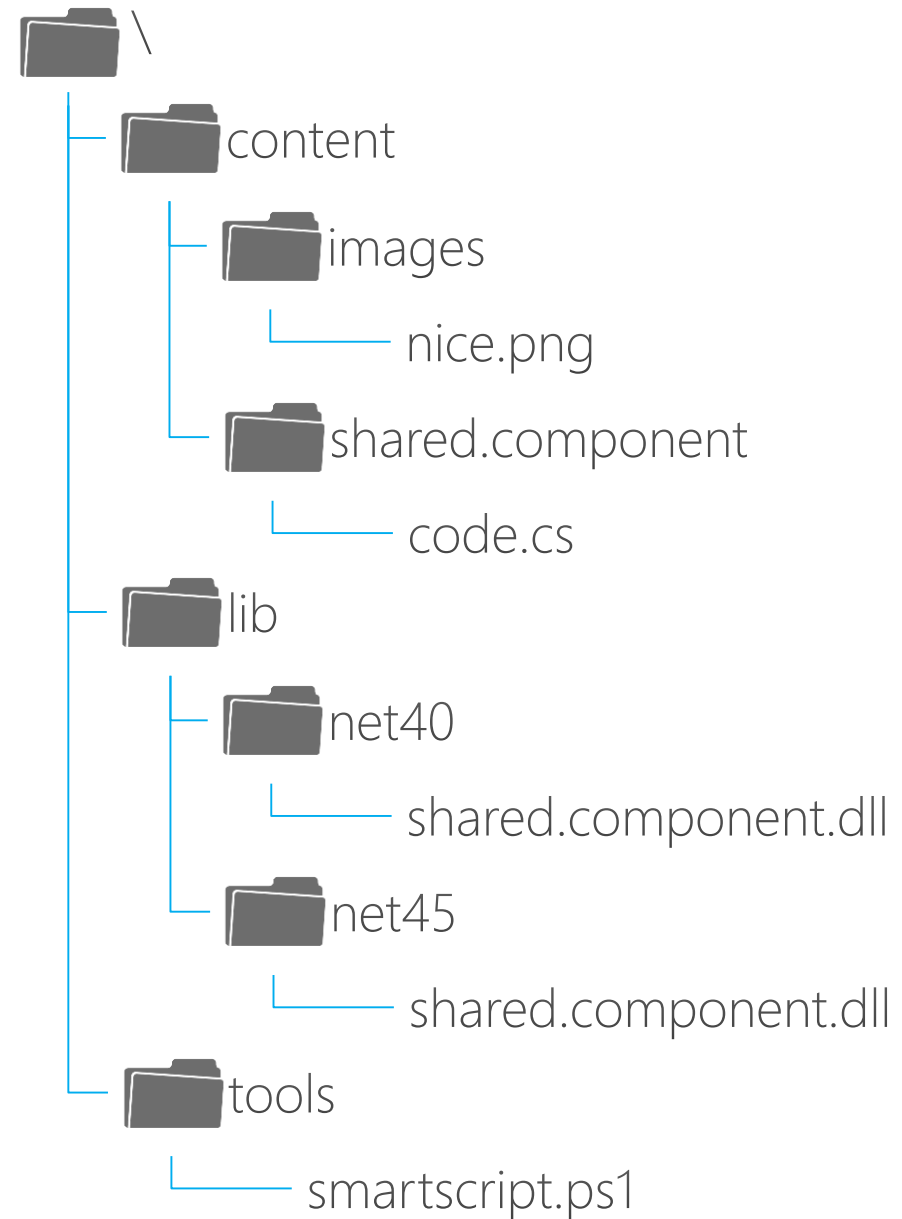
# Branching & Merging Silver bullet

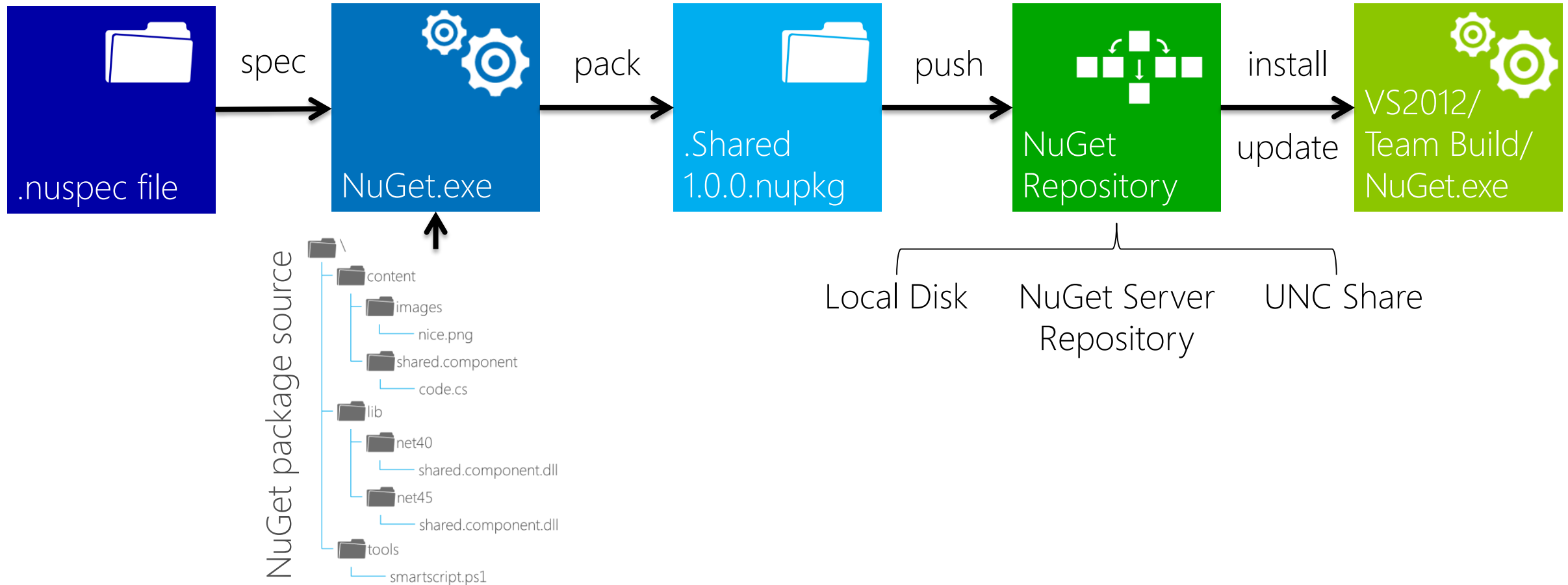






To branch or not  
to branch ... that is  
our adventure!

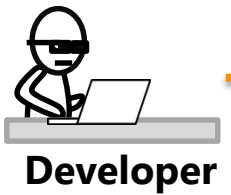
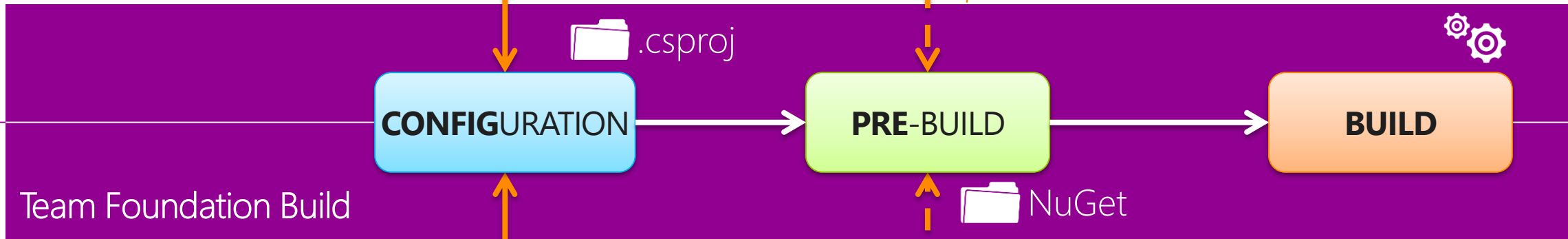




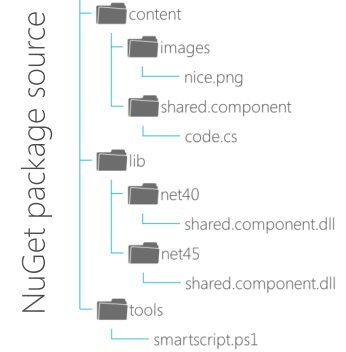
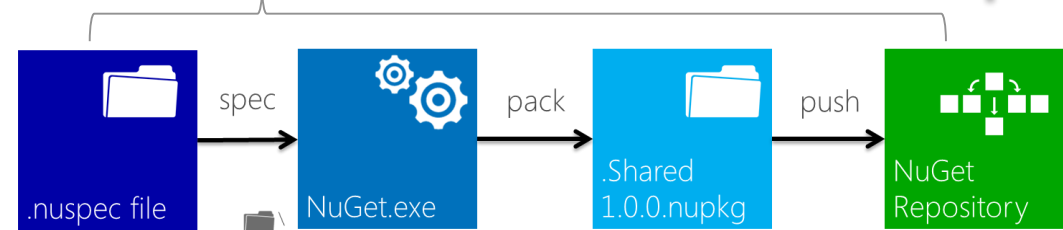
manual process  
automated process



- ③ Receive notifications and update packages in project
- ① Check-in package and changes to TFS Version Control
- ② Add packages to VS project



- ② Add packages and enable package restore in VS project
- ① Create NuGet Packages

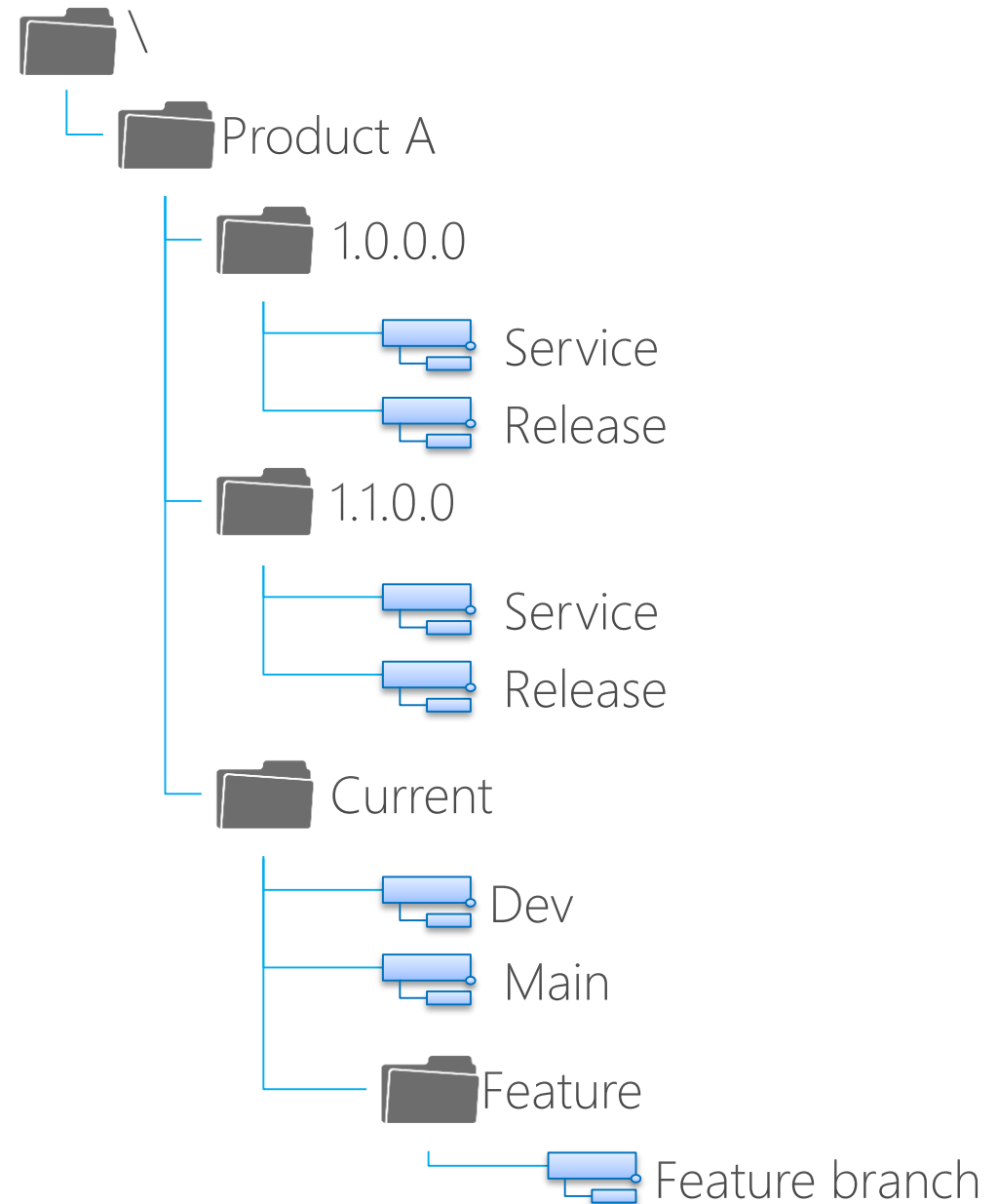


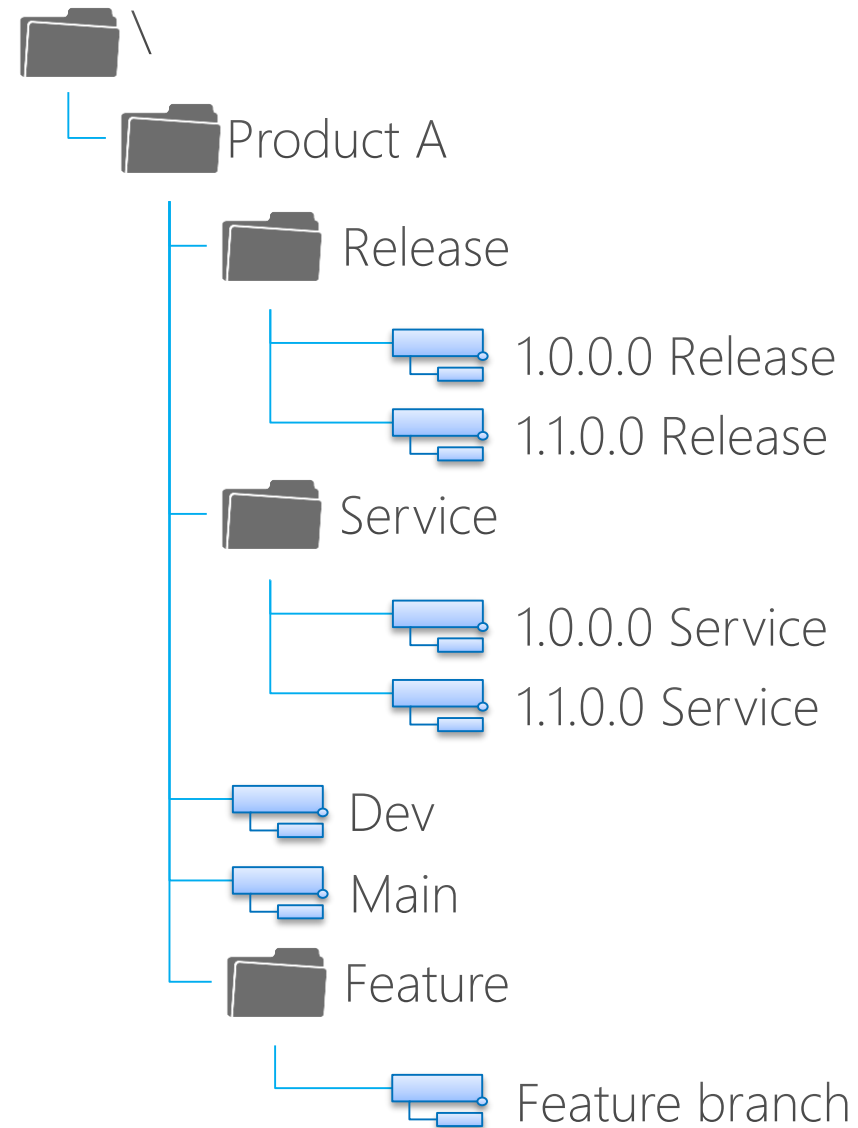
Local Disk

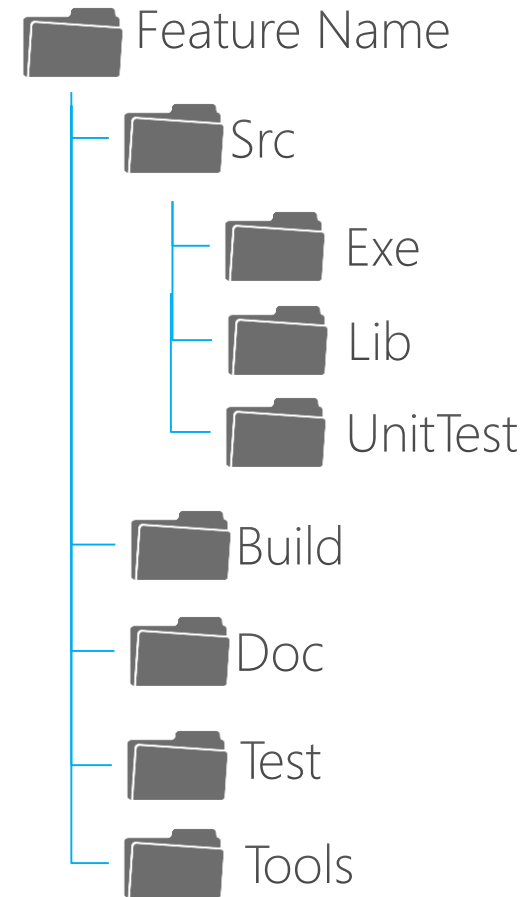
NuGet Server Repository

UNC Share

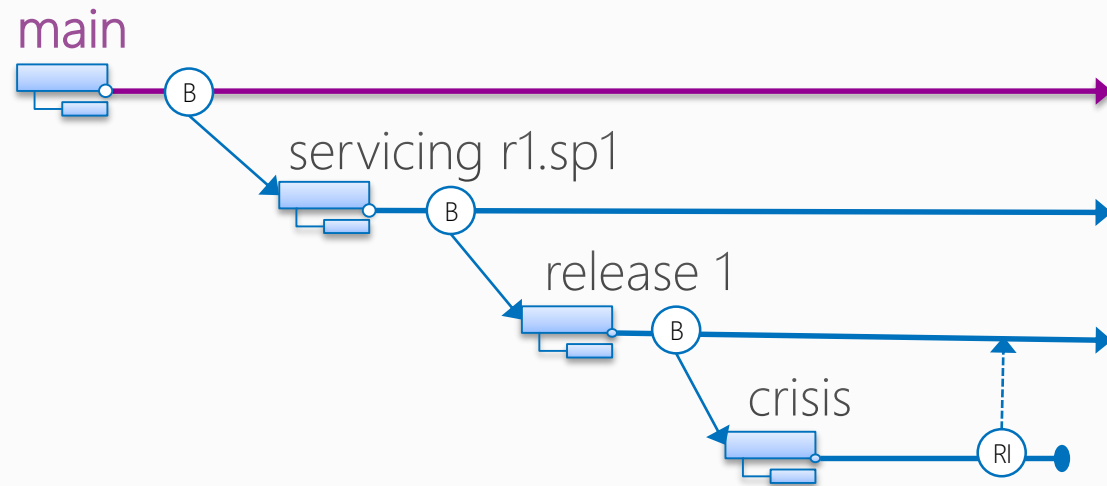
download automatically

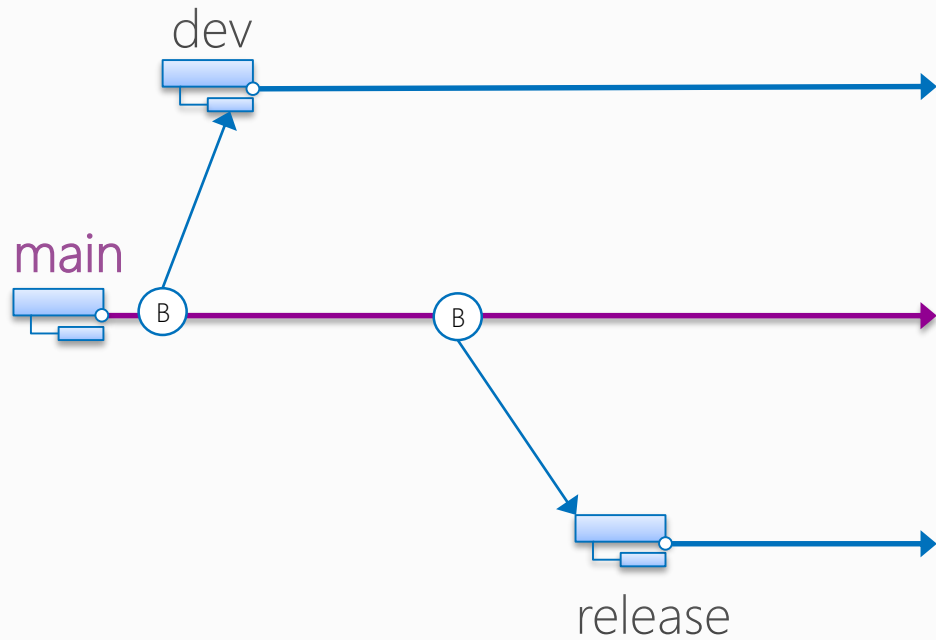


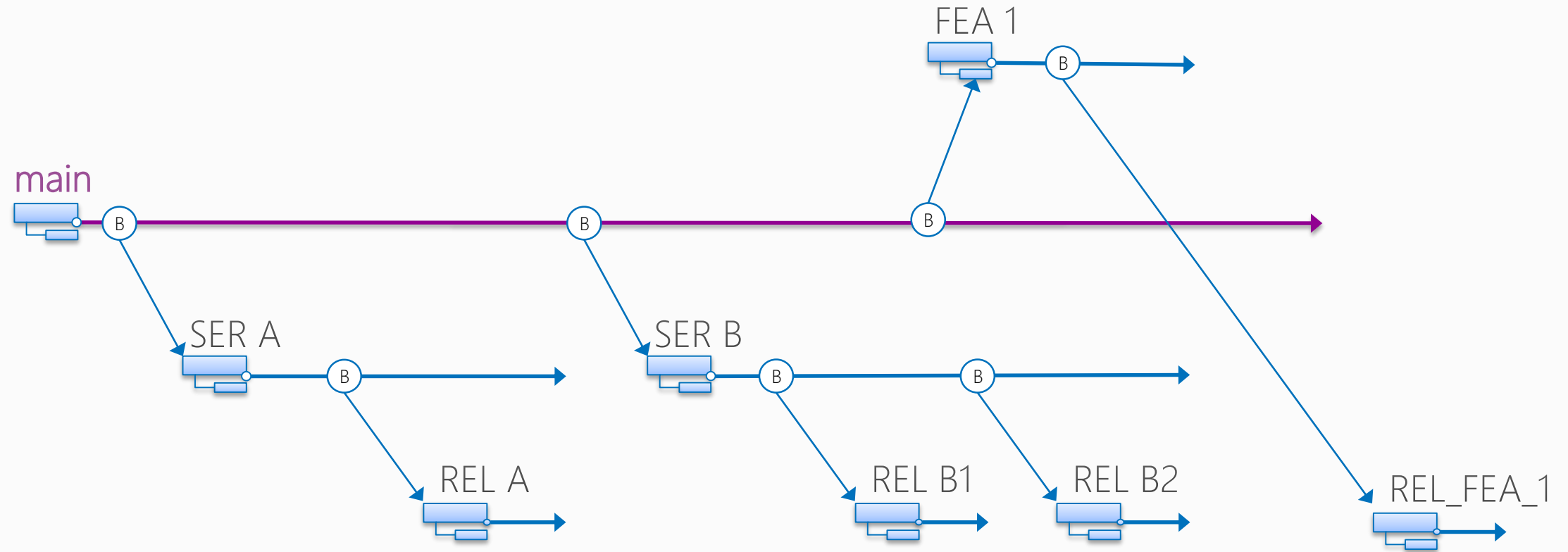






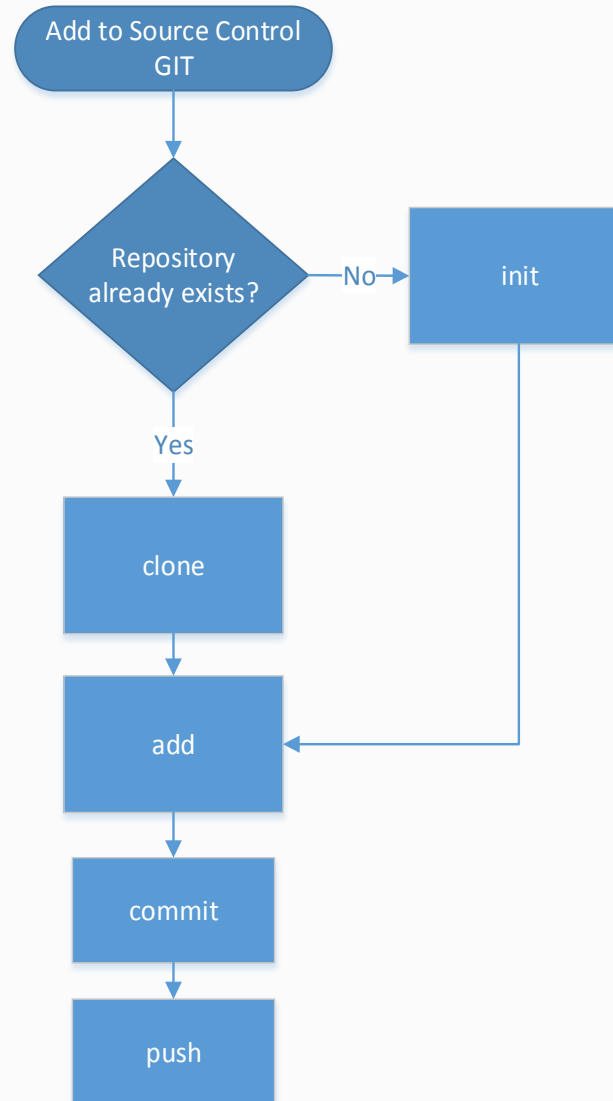
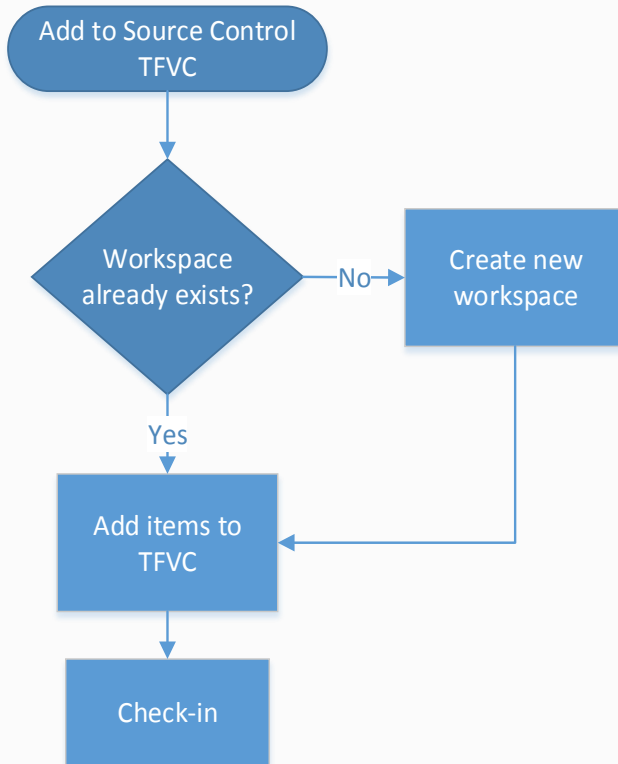




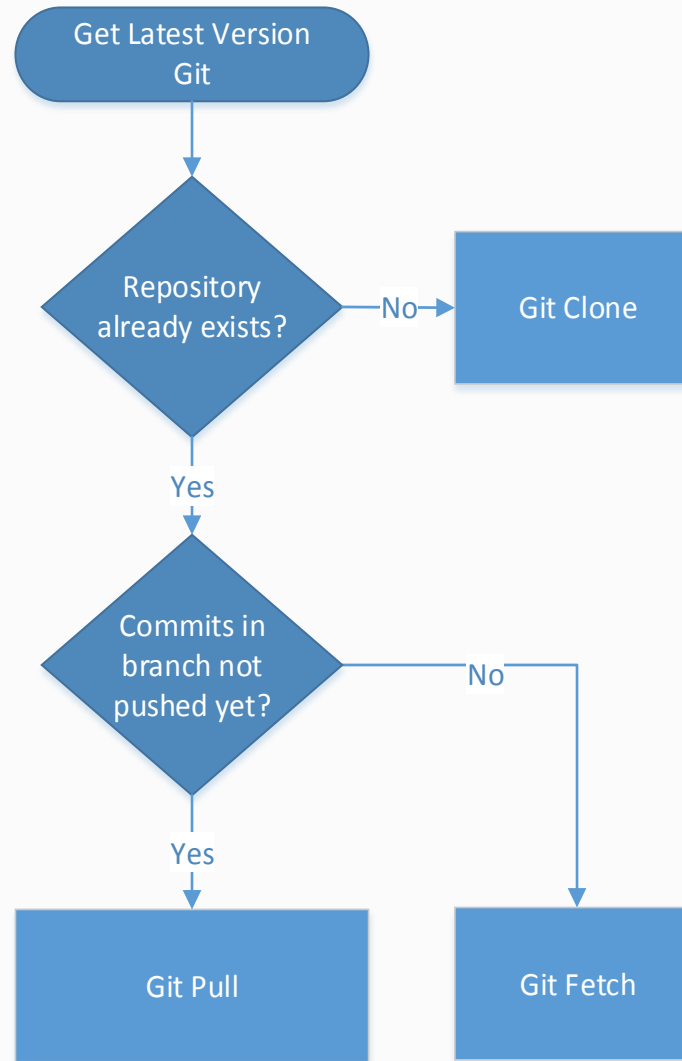
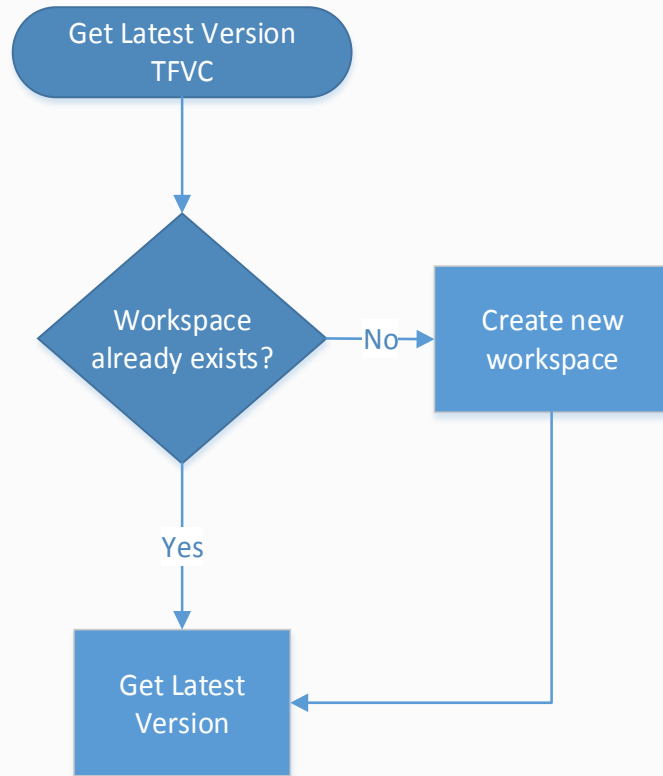


# Common User Stories

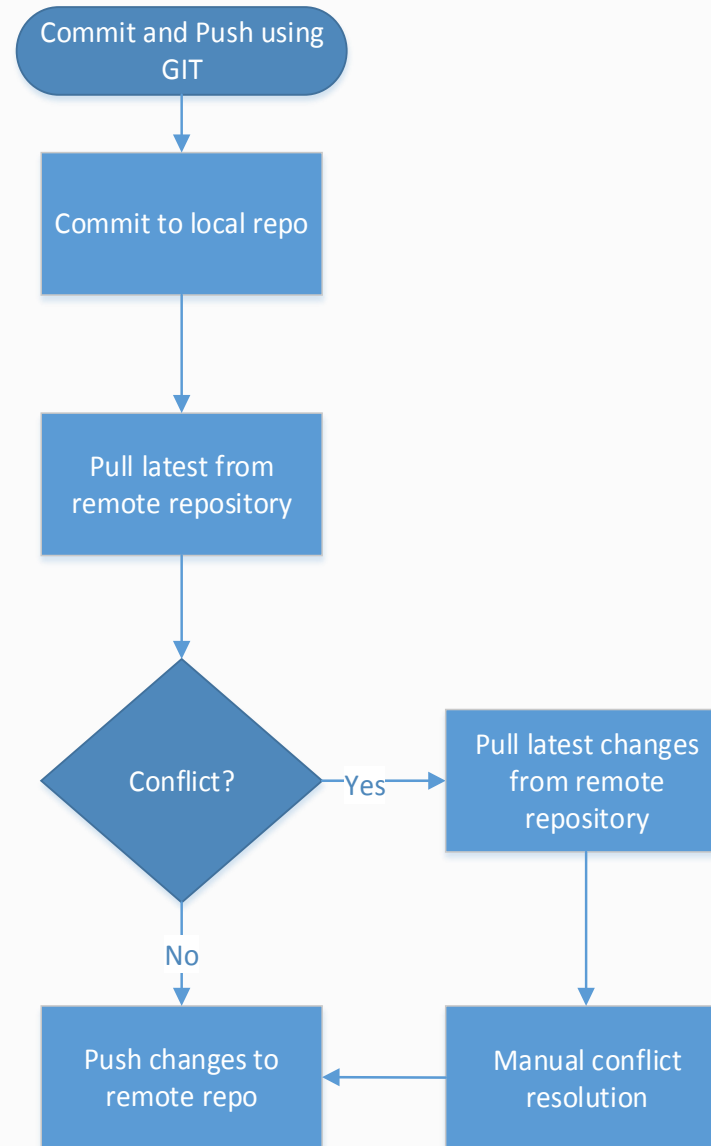
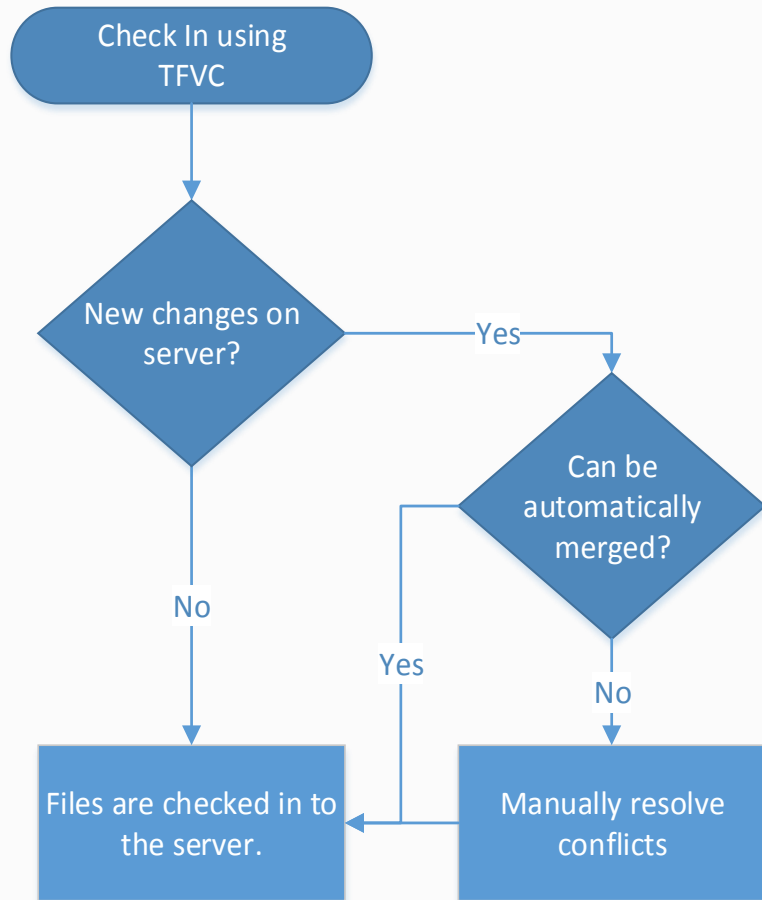
# 1. Add Items to Source Control



## 2. Get Items



# 3. Check-in



# 4. Delete

