Module 2: Linux For Software Development

Case Study

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Case Study

Problem Statement

Domain: Software Development
OS: Linux
Focus: Development

Software Development

- Now Tom and Jane want to develop two simple programs that can pass messages with each other.
- Please guide them to take a modular approach where, application logic is separate from underlying communication mechanism.
- Is it possible to use pipe or named pipe? When they can use pipe and when they are forced to use 'named pipe'?
- Now, replace 'named pipe' with IPC (Inter Process Communication).
- Also explore a common file based approach with signal passing mechanism for notification and synchronization.
- Now replace file based approach with UDS (Unix Domain Socket).
- Is it possible to run both programme on two different laptops? How to use network domain sockets?
- Now, both of them have developed a pretty decent code using advanced IDEs. Please help them with installation of git as SCM (Software Code Management) system and few basic commands for the same.

Approach to solve:

- Write a pipe based communication between process and its child.
- Use name pipe to create two programs interact with each other.
- Use IPC mechanism to interact between two processes.
- Unix Sockets can be used to interact between two remote servers.