# Beginner's guide

- There is a suggested research topic to find a scanning tool for the application in the bank.
- They are currently looking for a sol. To encrypt data on SFTP server. (PGP Encryption)

- For CI they use octopus and TeamCity.
    - TeamCity
        - 3adatan ma bnhat on a single server btwz3 on several servers, each one is called build server.
        - Build agents are used for compiling, packaging, and testing code.
        - In building step, to check all errors. Go to build log.
        - Every step you take to compile, package or build your code happens in build steps.
        - If we parametrize our build configurations, then we need less build configurations. (we don't need to buy many licenses.) -Restore "project name". -publish "project name".
        - You can format the teamcity servers in a cluster. 👇

In a computer system, a cluster is a group of servers and other resources that act like

Why TeamCity is better than Jenkins?

Although TeamCity and Jenkins are both CI tools, they differ in several features. TeamCity is easy to install and configure and has an easy interface. It is also a commercially licensed tool, whereas Jenkins is available free of cost and open-source. Jan 20, 2023

- Octopus
    - Like teamcity, octopus has an agent to work for the original server. The agent is called (Octopus Deploy Tentacle.)
    - The tentacles have to be on the target server (the server you intend to host your application on). Otherwise your deploy server won't know about the server you want to host on.
    - There are two types of octopus deploy tentacles:
        - Listening Tentacles. "They listen on port "10933"
          -This is the recommended one to use by octopus.
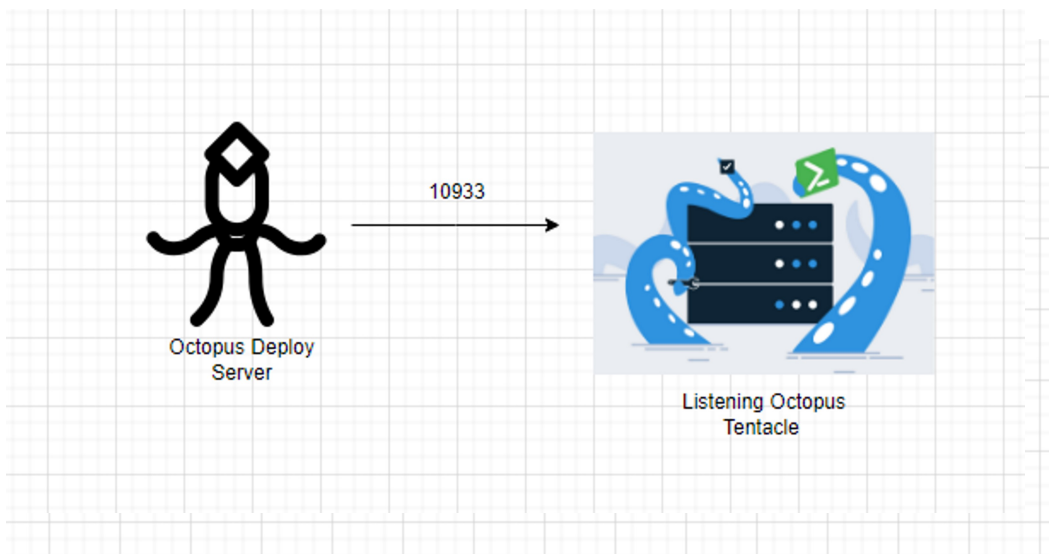
        - Polling Tentacles. "port "10934"
          -It connects to the octopus deploy server and checks for any pending tasks.
          -The use case for this one is: whenever we have our octopus deploy server on an auto-scaling group it would be better to have it set on polling, or the octopus deploy server won't be able to recognize the tentacle in the first scenario (listening).