Туре	Diagram	Details	Team structure	Release & Deployment	Testing scope
Monolith	WebLogic Server  Frontend  Monolith FE + BE team	deployed collectively on a single server.  Scaling require replicating the same server with entire code base making it expensive.	One big team comprises of all the tracks	pipeline or process that deploys entire codebase during every release.	Generally most of the regression suite to be run since entire/most of the codebase was deployed in the same server.
	https://www.linkedin.com/in/vineet-kumar-765759b6/	One bad code can bring the entire system down e.g. memory leak in one of the component of the solution.		.com/in/vineet-kumar-76	5759b6/
Frontend/Backend Separation	Frontend  HTTPS, RPC, gRPC  Backend  Monolith FE team  Monolith BE team	deployed into respective servers. Frontend communicates with Backend using HTTP(S), RPC or gRPC protocols. Frontend and backend severs can be scaled independently based on the demand. Issues in frontend and backend are	separated from backend track.	Different source code control for every track. Separate CI/CD pipelines make sure that respective code is properly build and deployed as per its track best practices. FE and BE tracks can have their independent release schedules.	Limited to the track whose code was just deployed.
Modular Monolith	Frontend  Backend#1  Backend#N  Modular BE team	server. However code is structured, stored, build &/or packaged in a modular fashion e.g. OSGi container supporting hot deployment of modular Jars without impacting other jars.	Team is divided into separate logical tracks based on the structure of the project.	done by individual tracks as per their release schedule.	Even though deployment can be done by individual track, regression testing should still be in scope for other functionalities which are dependent on the deployed package since deployment is in the same server.
Microservices	Frontend  HTTPS, RPC, gRPC  API Gateway / BFF  HTTPS, RPC, gRPC  Backend#1  Backend#2  Backend#1  Checkout BE team  https://www.linkedin.com/in/vineet-kumar-765759b6/	domain-driven microservices which are orchestrated and exposed through an API	pizza teams) i.e. Search team, Checkout team etc. No division in FE and API team.	will have their own CI/CD pipelines and servers. They will release based on their own release schedule without impacting others. FE and API team will generally have one	For backend code, only the functionality which was deployed requires to be tested, provided these services are following proper versioning. However for changes in FE or API, most of the FE and API functionalities are to be tested.
Microservices & Microfrontend	Assembler  Assembler  Assembler team  HTTPS, RPC, gRPC  Assembler team  FE#1  API#1  BE#1  BE#1  Checkout team  FE + BE + API  Payment team  FE + BE + API  Payment team  FE + BE + API	provide great value for clients requiring extreme agility.	(FE+BE+API) is created for every functionality. Functionalities are broken down leveraging domain-driven design. An assembler framework layer is required to stitch the output of all teams together.	resulting into higher	Limited to the functionality just released.