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Best Practices of Multi-tenant SaaS Architecture

Multi-tenant architecture is an ecosystem or model in which a single environment can serve multiple tenants utilizing a scalable, available, and resilient architecture.

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Here are the best practices of Multi-tenant SaaS Architecture

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Code Deployments with CI/CD

You will need a CI/CD process to streamline your code releases across all environments and tenants.

It would help if you embraced these **CI/CD tools**, Jenkins, CircleCi, or AWS Code pipelines (along with Codebuild and CodeDeploy).

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DevOps Automation

You need to trigger a script to launch or attach the new Multi-tenant environment to your existing Multi-tenant architecture, meaning to automate the setup of new tenants.

Automation tools recommended:

- Terraform
- Amazon CloudFormation

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Siloed compute and siloed storage

Every layer of the SaaS application needs to be isolated. The customer workflow touches multiple layers, pages, backend, networking, front-end, storage, and more.

Take in mind the next aspect:

1. IAM Roles per function or microservices.
2. Amazon S3 security policies.
3. VPC isolation.
4. Amazon ECS / Kubernetes Namespace isolation.
5. Database isolation (tenant per table/schema/silo database)

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Tenant clean-up

What are you doing with the tenants that are idle or not used anymore? It would help if you had a process or automation script.

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