
AWS
re:Invent
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PEX313

The SaaS control plane: The heart of SaaS growth

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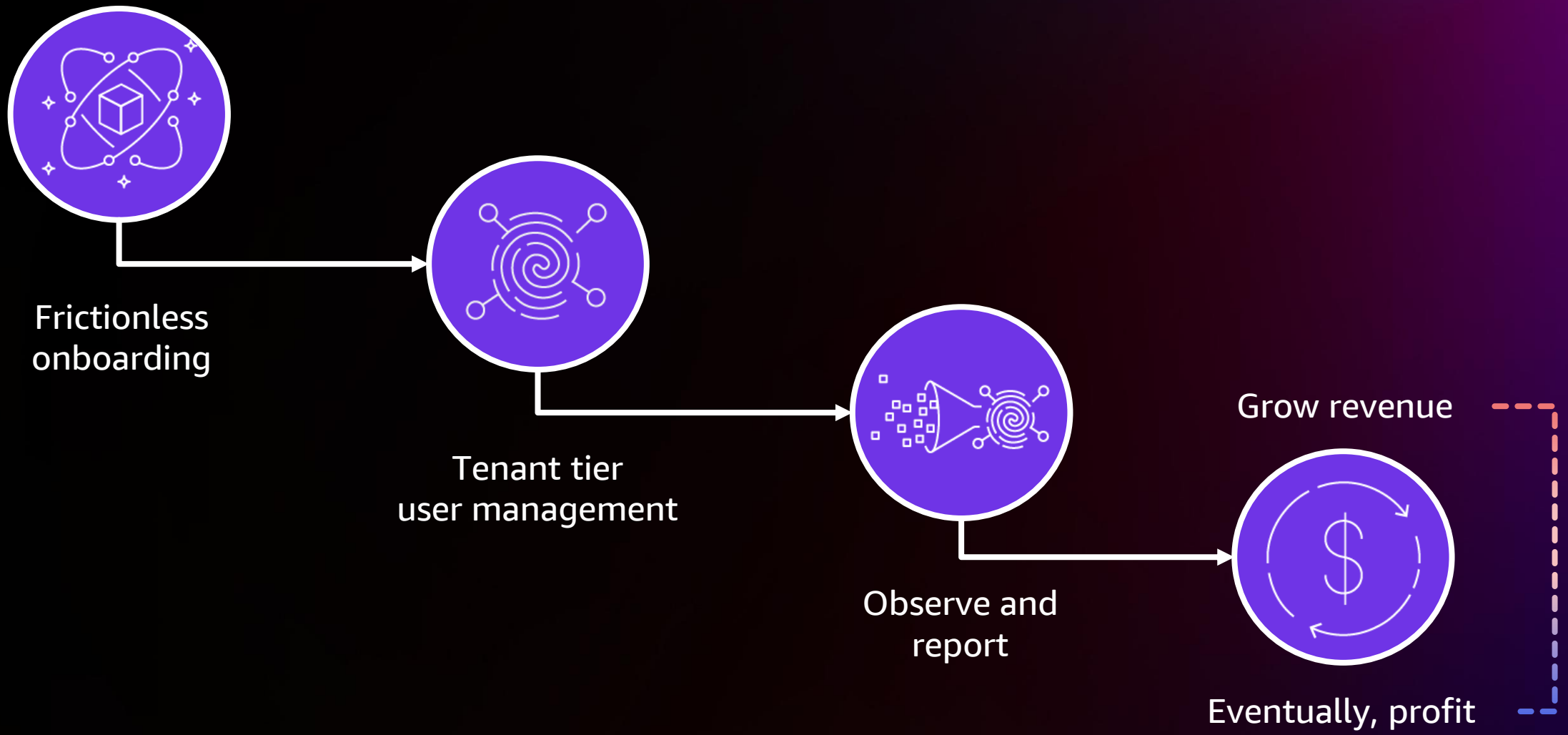
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Control plane = SaaS growth



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SaaS control plane responsibilities



Single pane of glass



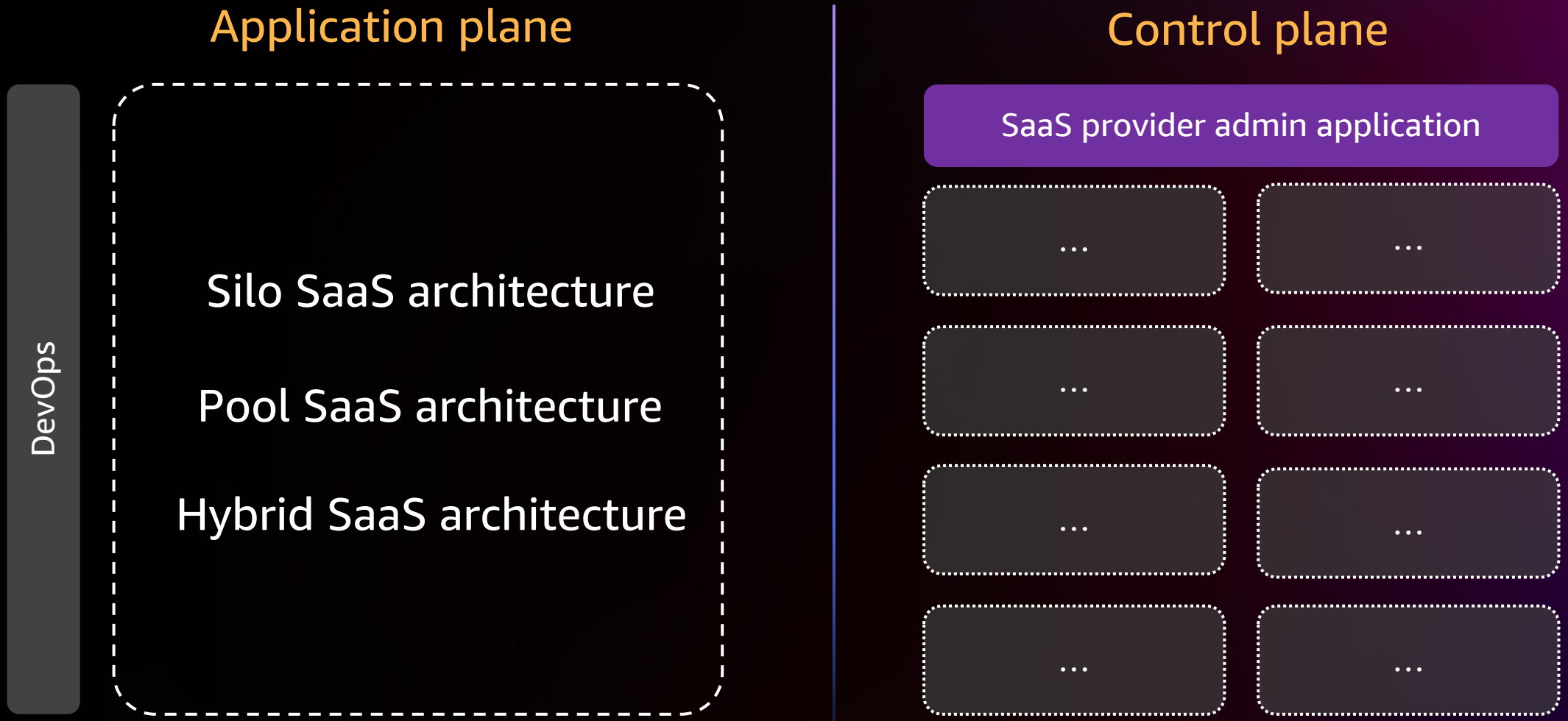
Operational support



Orchestration tooling

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Dividing up the responsibilities



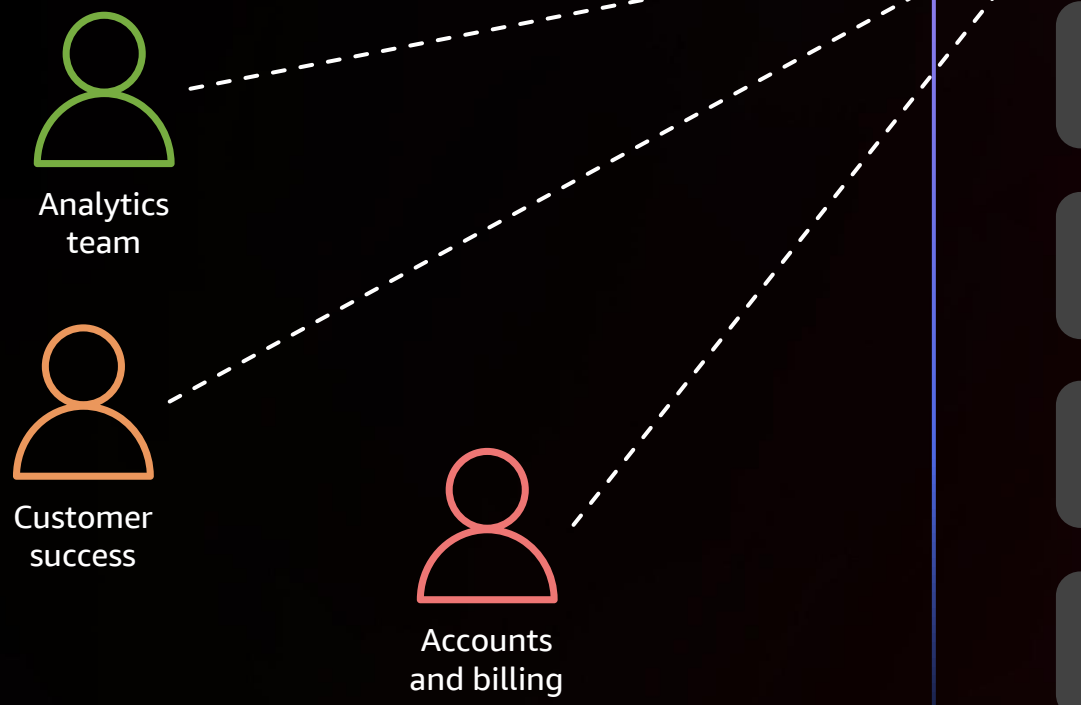
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Question: What are some control plane services?

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Control plane and tenancy

Surprise! Your control plane may not be multi-tenant.



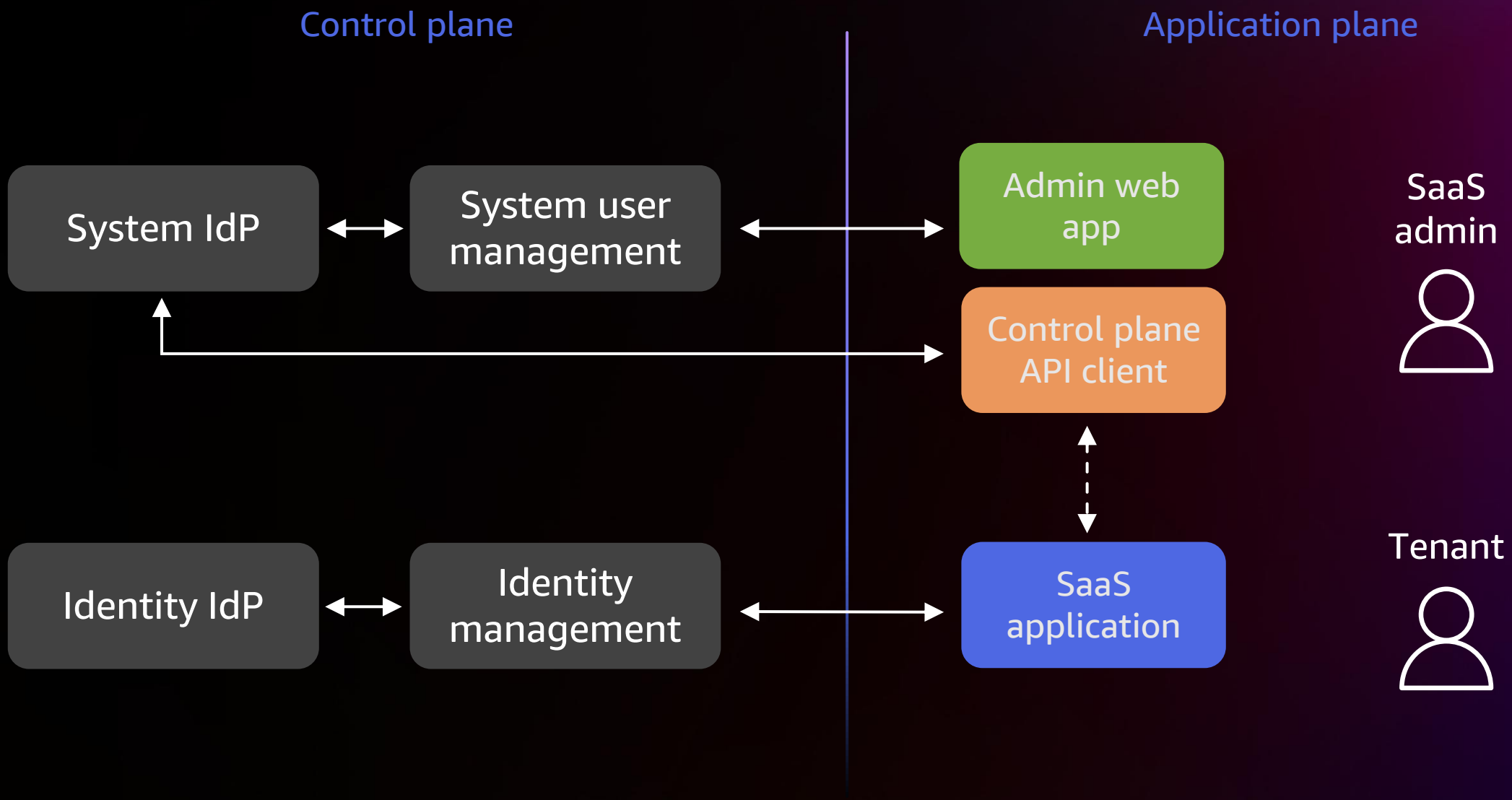
Control plane

SaaS provider admin application

- Onboarding
- Identity
- Tenant management
- User management
- Billing
- Analytics
- Tier management
- Management and monitoring

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Identity blurs the lines



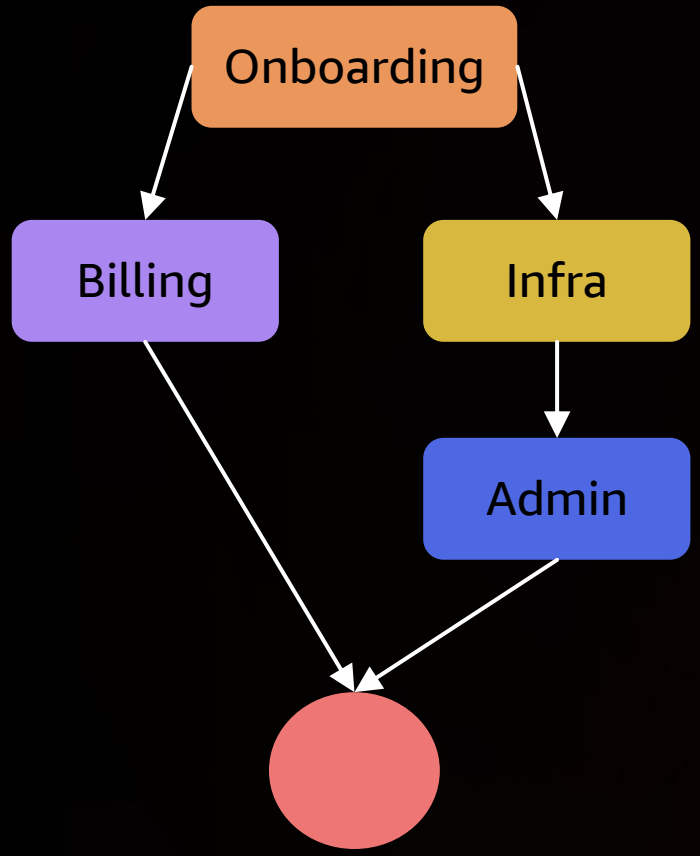
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Question: Do tenant users access your control plane?

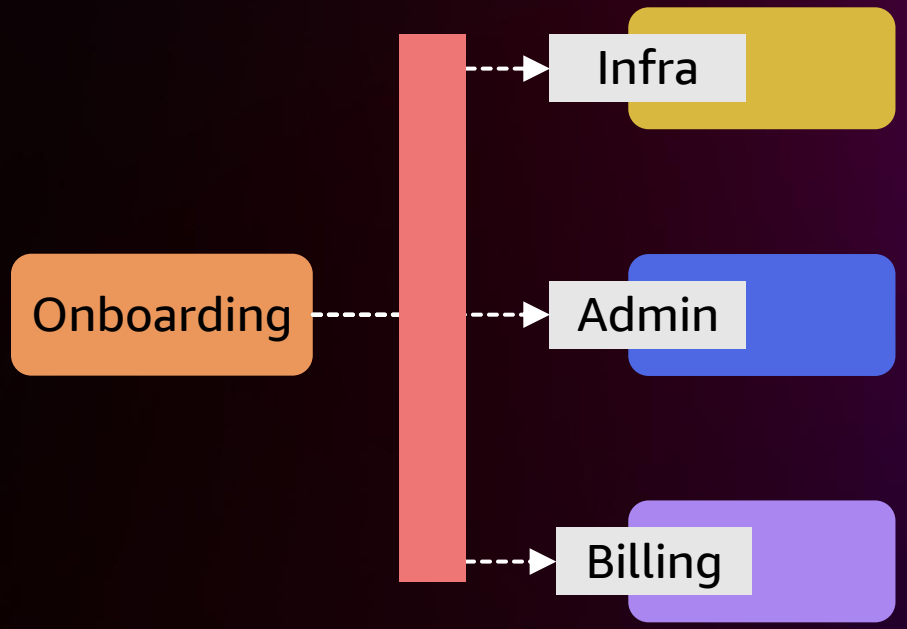
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Onboarding – orchestration vs. choreography

Blocking orchestration



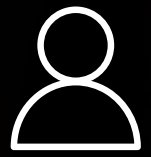
Choreographed messages



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Onboarding example

SaaS admin



Onboarding

Actions

1. Save onboarding request and enqueue for validation
2. Validate environment
3. Create tenant record
4. Provision infrastructure
5. Execute deployment pipelines
6. Wire up 3rd party billing provider
7. Change status of tenant record

Events

- Onboarding initiated
- Onboarding validated
- Onboarding tenant assigned
- Onboarding provisioned
- Onboarding deployed
- Onboarding billing integrated
- Onboarding complete

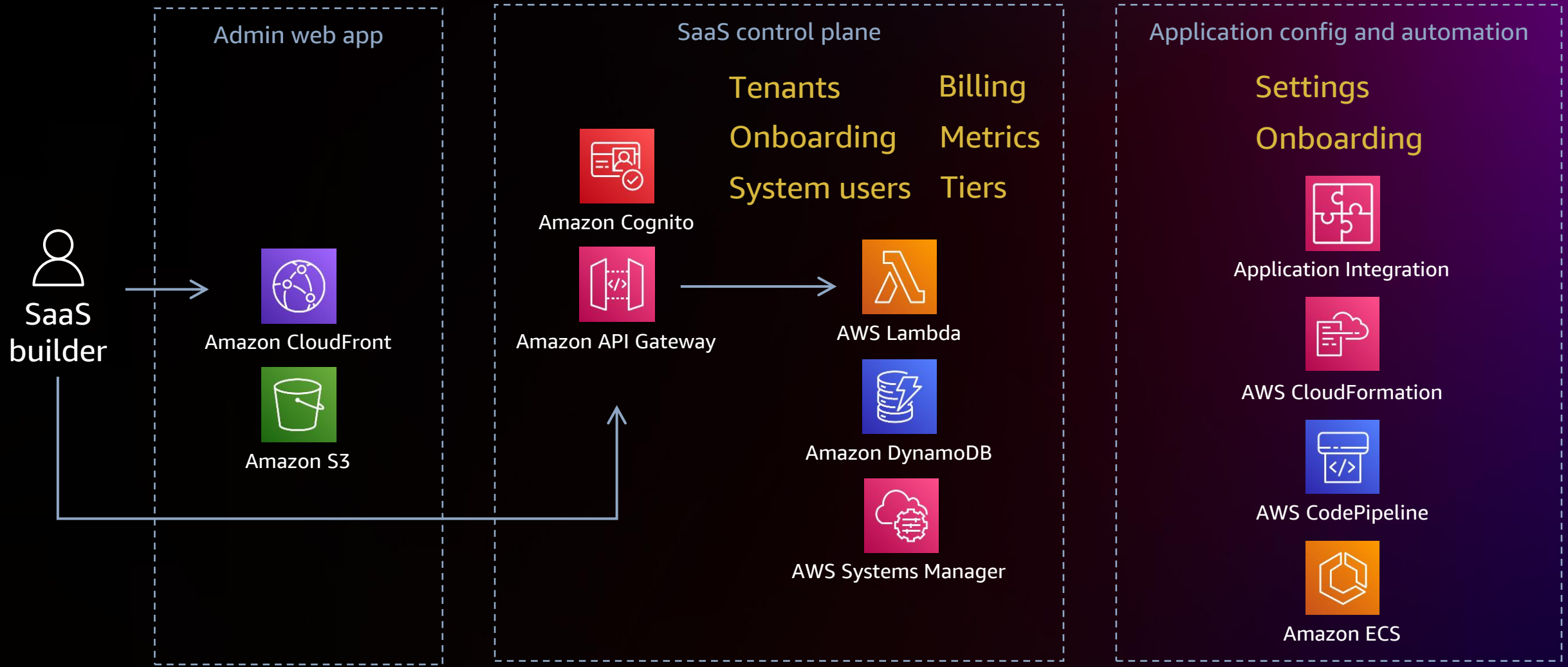
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Question: Should you split your application and control plane?

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AWS SaaS Boost



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What makes a great control plane?



Reliable



Cost optimized



Secure

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More SaaS sessions

Breakout sessions

- SAS305 – SaaS architecture patterns: From concept to implementation
- SAS405 – SaaS microservices deep dive: Simplifying multi-tenant development
- SAS306 – SaaS migration: Inside a real-world multi-tenant transformation
- SAS302 – Supporting extensibility in SaaS environments
- PEX310 – Optimizing your multi-tenant SaaS architecture

Workshops

- SAS403 - SaaS microservices deep dive: Multi-tenancy meets microservices
- SAS402 – Serverless meets SaaS: Inside a real-world serverless SaaS solution
- SAS401 – Amazon EKS SaaS: Building a working multi-tenant environment

Business session

- PEX209 – Building your SaaS journey on AWS

More SaaS sessions (cont'd)

Chalk talks

- SAS307 – DevOps and SaaS: Applying automation in multi-tenant environments
- SAS303 – SaaS anywhere: Building SaaS solutions that run in hybrid models
- SAS301 – Multi-tenant meets ML: Building ML-based SaaS environments
- SAS304 – Solving the SaaS compliance puzzle
- PEX313 – The SaaS control plane: The heart of SaaS growth
- ARC403 – Amazon EKS SaaS deep dive: Inside a multi-tenant EKS solution
- ARC323 – Designing a multi-tenant SaaS tiering and throttling strategy
- SVS315 – Building multi-tenant applications with AWS Lambda and AWS Fargate

Builder session

- ARC327 – How to optimize cost in your multi-tenant architecture

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Additional resources

1

Subscribe to AWS SaaS Insights

Get monthly emails with bite-size advice and the latest updates.

2

Explore the SaaS on AWS hub

Check out the SaaS on AWS page for more resources and insights.

3

Discover resources for builders

Access our curated list of SaaS reference solutions, demos, tech events, and more.

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Thank you!



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