

AWS re:Invent

DECEMBER 1 - 5, 2025 | LAS VEGAS, NV

Scaling Serverless with platform engineering: A blueprint for success



Anton Aleksandrov

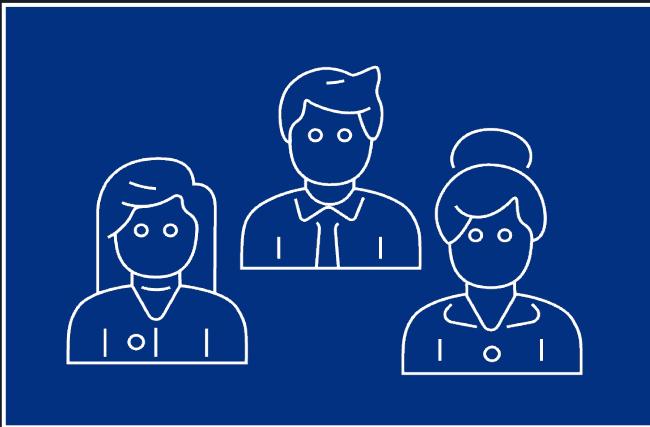
Principal Solutions Architect
AWS, Serverless



Ran Isenberg

Principal Software Architect, CyberArk
AWS Serverless Hero

The operational model evolution



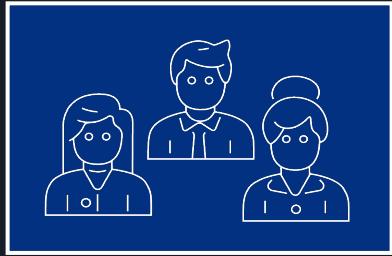
**Application
development team**



Infrastructure/ops team

The operational model evolution

We
DevOps

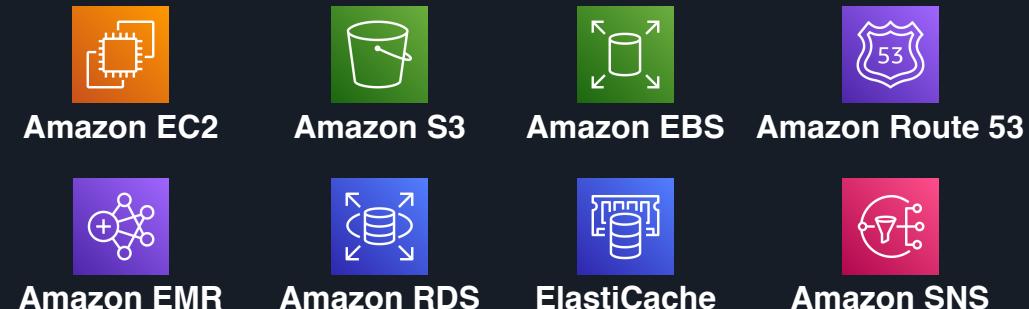


Application development team
CI/CD tools and processes

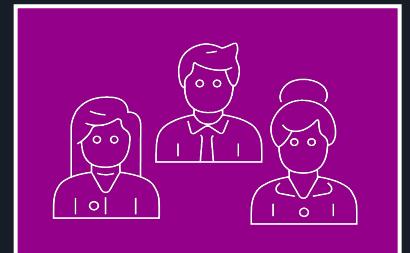
The Application Layer



The Infrastructure Layer



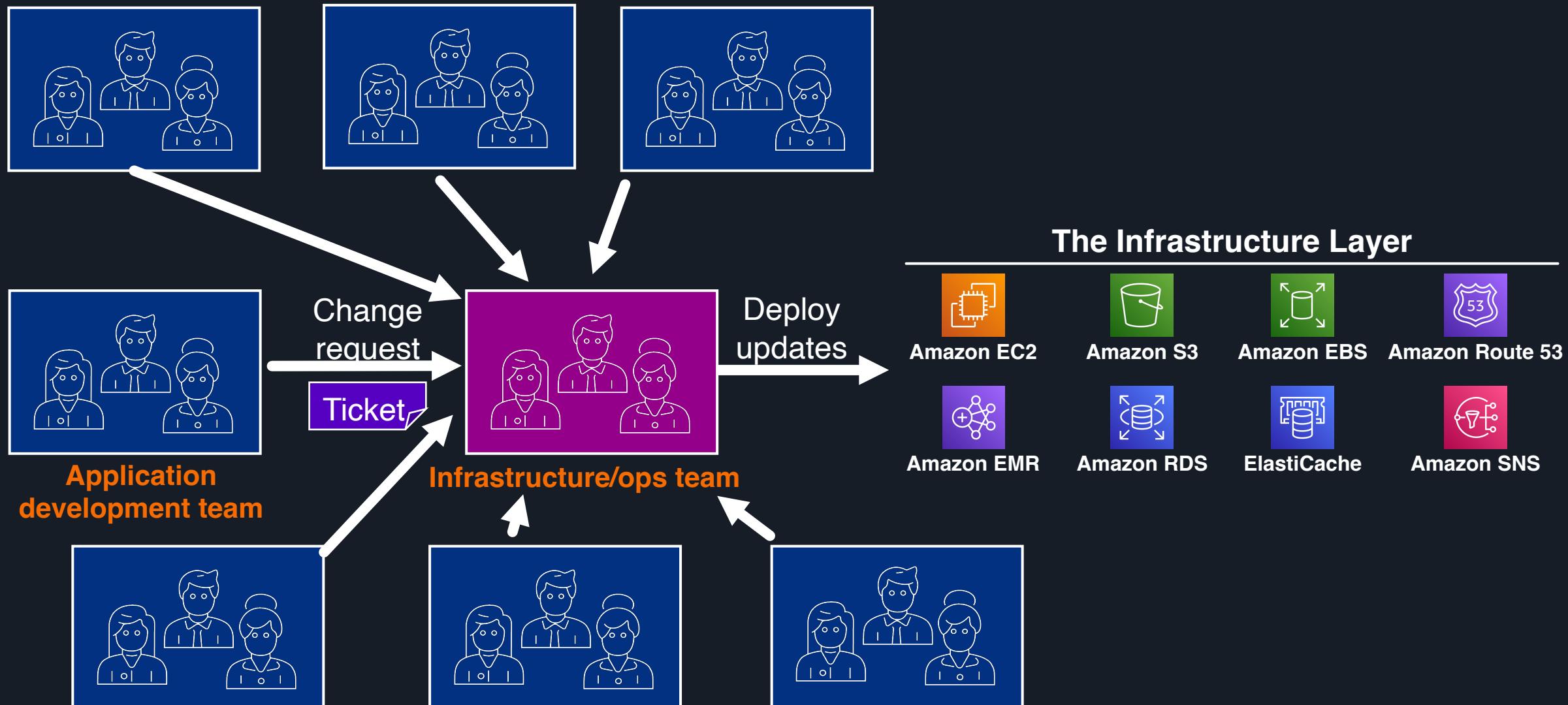
IaC tools and processes



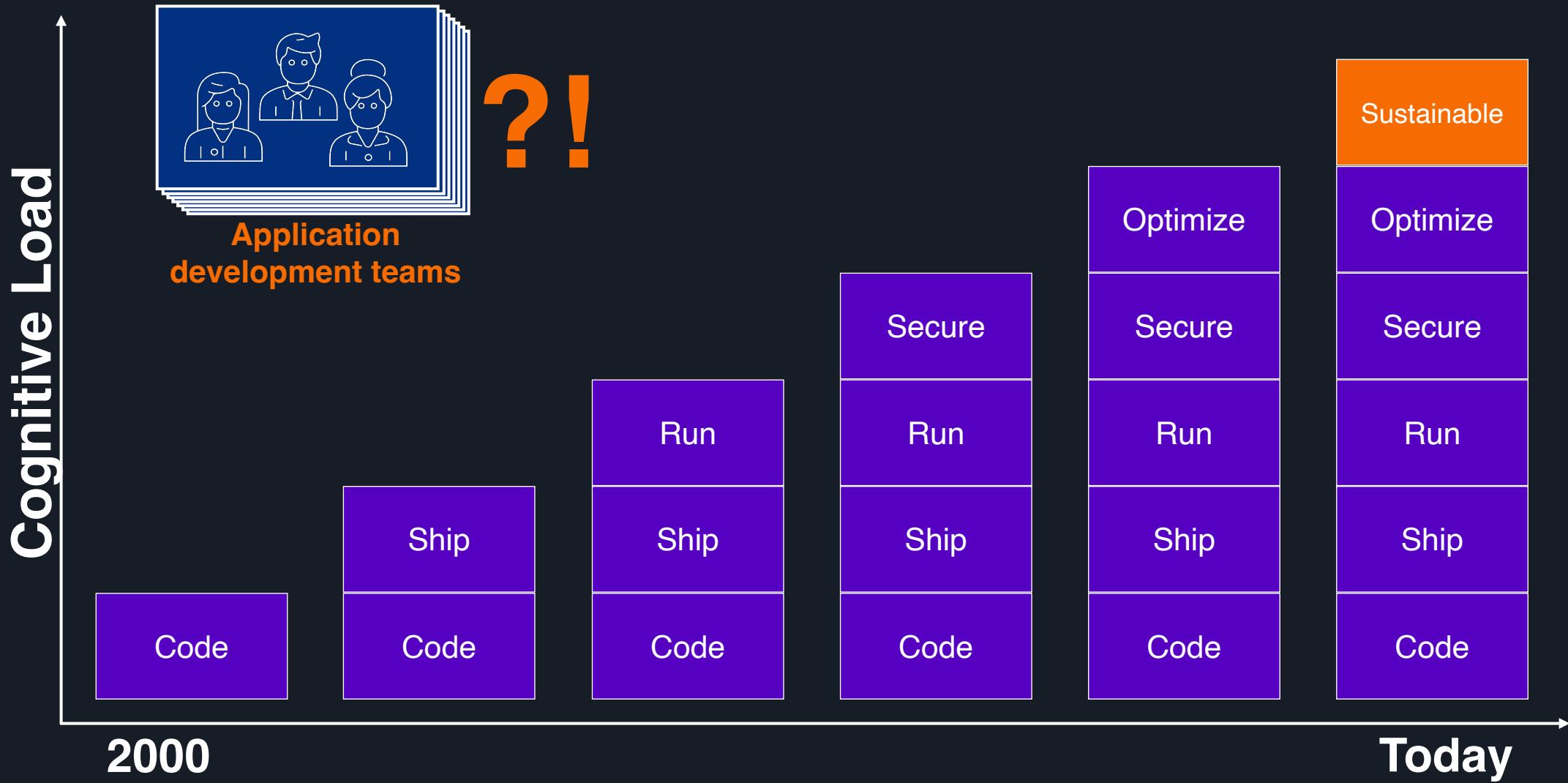
Infrastructure/ops team



The operational model evolution



Shift-left to the rescue?



Why Serverless



Reduced operational overhead



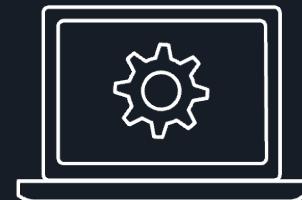
Improved availability and scalability



Improved security posture



Native integrations



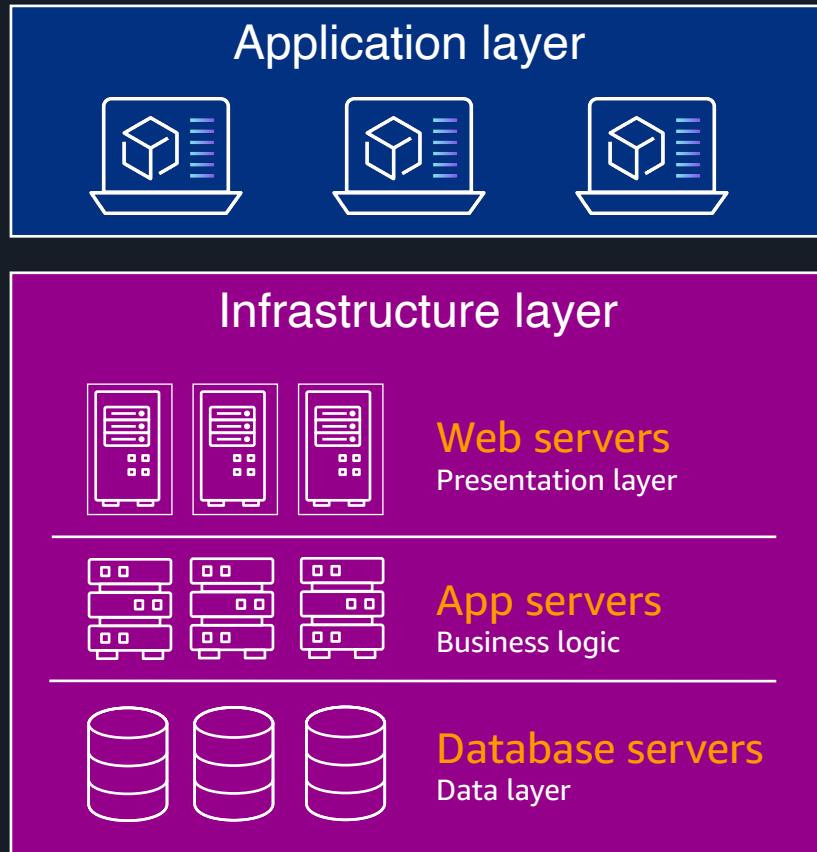
Flexible compute choice



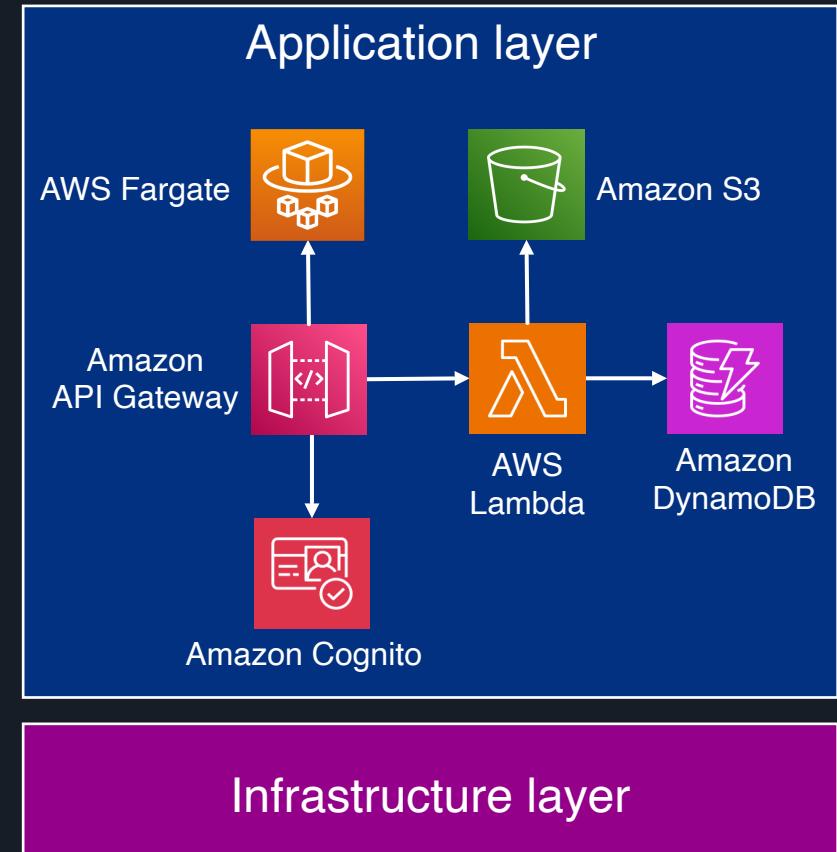
Accelerated application delivery

Application topology evolution

Traditional application

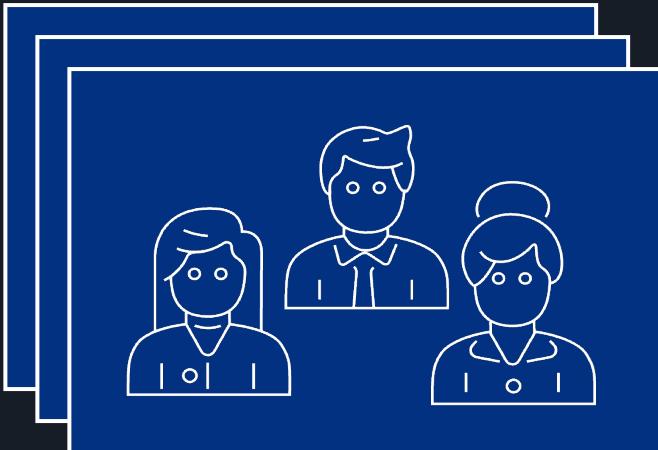


Serverless application



The ownership boundaries

This is an **application resource**! We need the flexibility to control it!



Application development teams

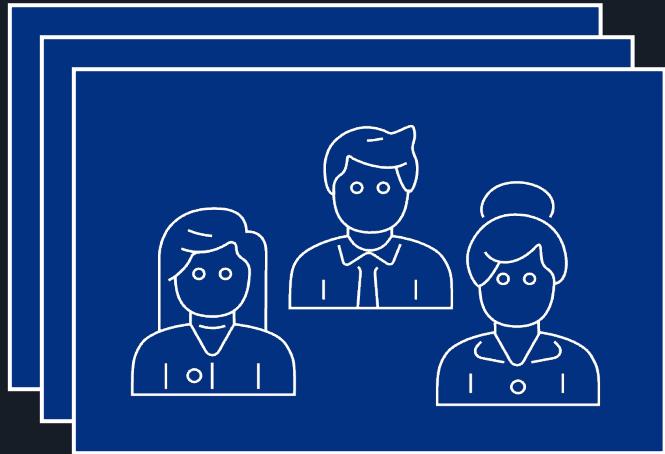


This is an **infrastructure resource**! We own and manage it!



Infrastructure/ops team

The ownership boundaries



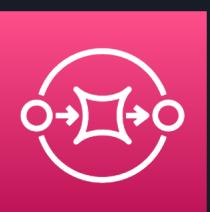
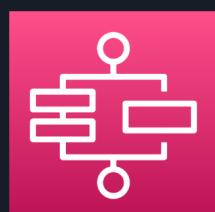
**Application
development teams**

Rapid innovation! Agility!
Time to market! Feedback
cycle! New services!

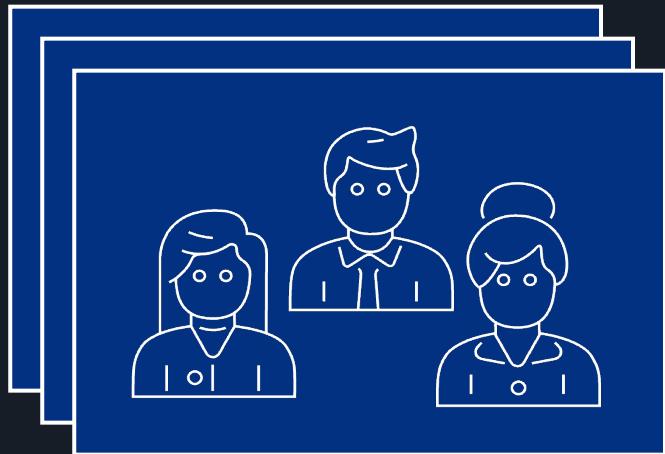


Infrastructure/ops team

Standardization! Security!
Governance! Observability!
Cost efficiency!



Striking the balance



AppDev teams



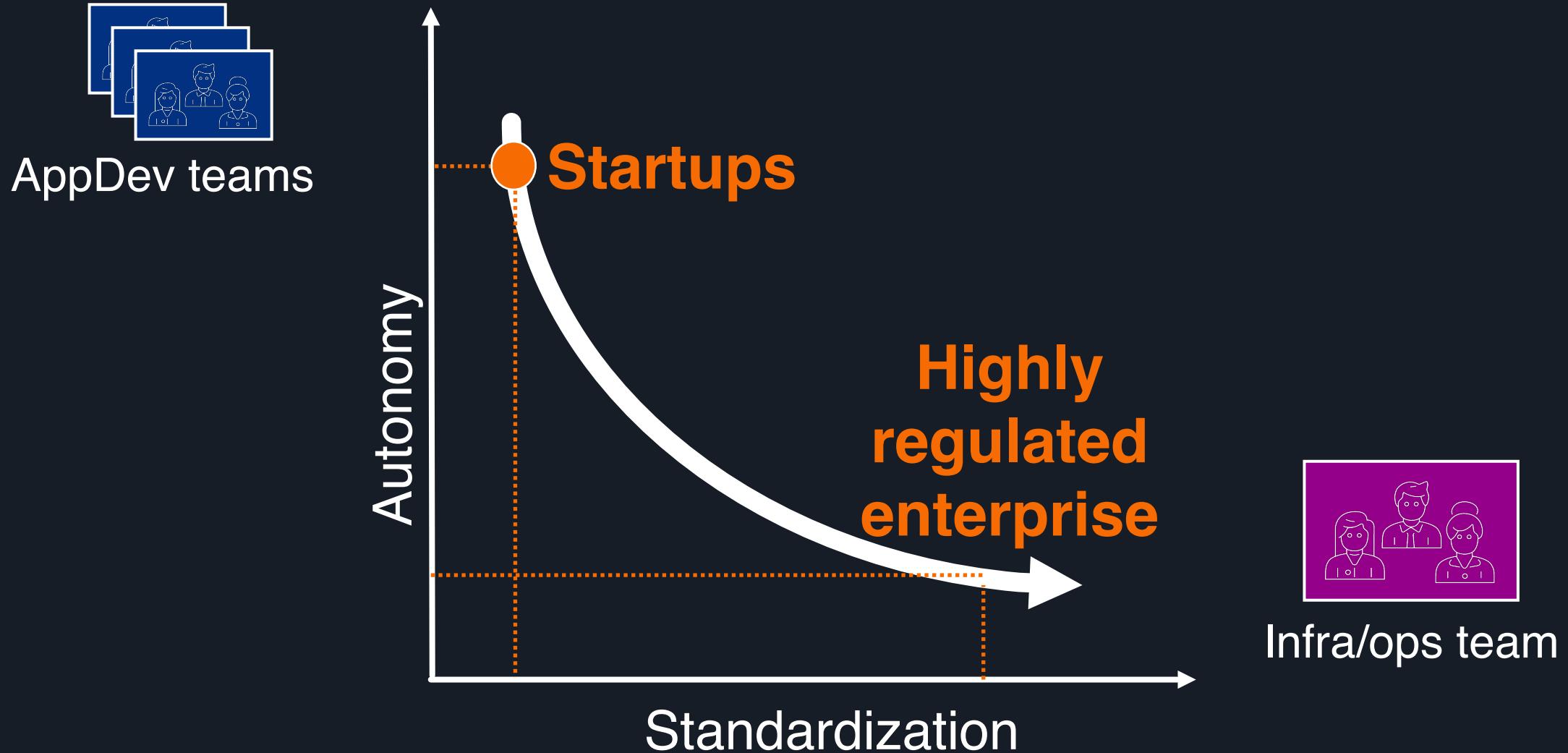
Infra/ops team

Autonomy



Standardization

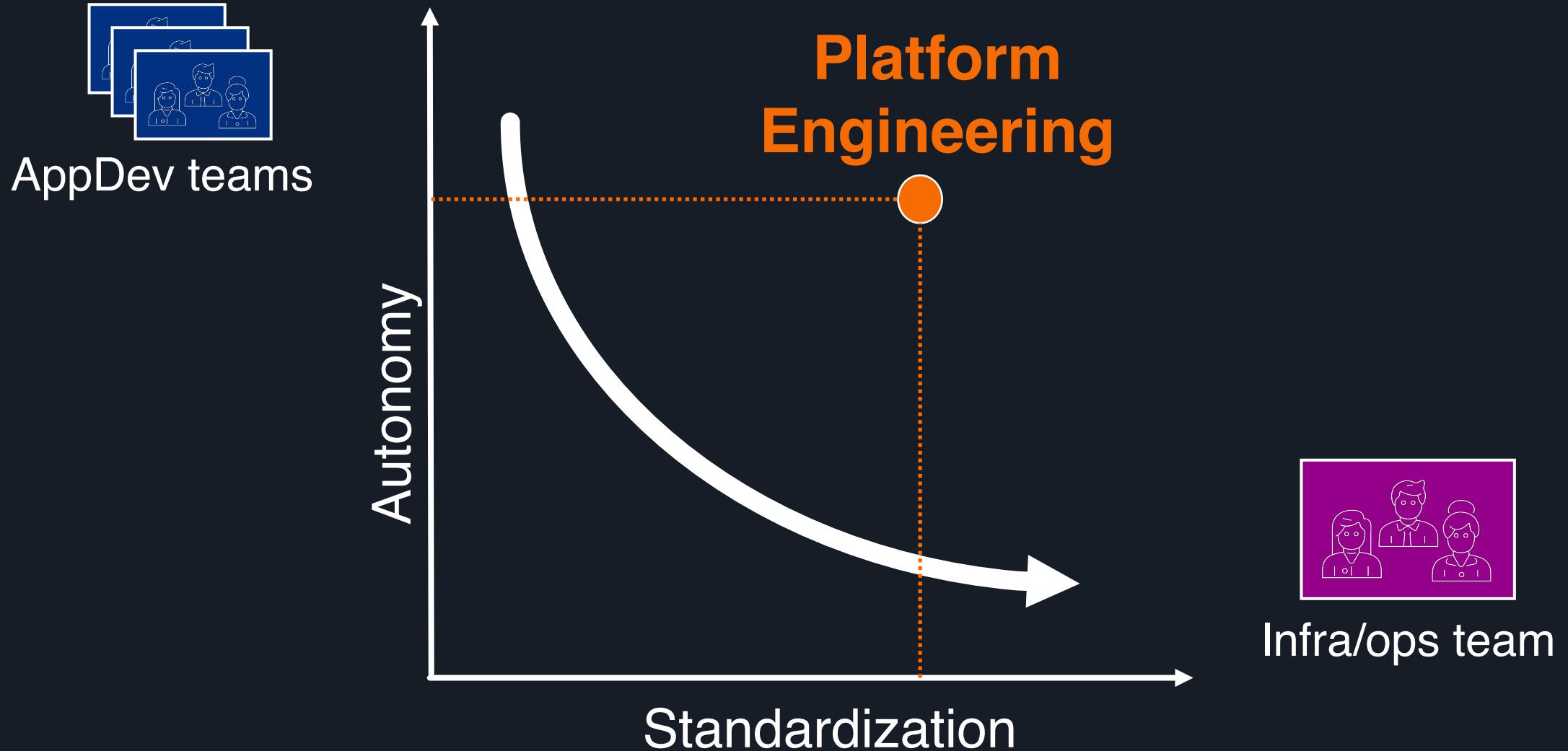
Striking the balance



Striking the balance



Striking the balance





“Implementing serverless blueprints, automation, and platform engineering practices allowed us to **reduce new service launch time from 23 weeks to 3 hours, saving over 5 months of work** for each new service we build”



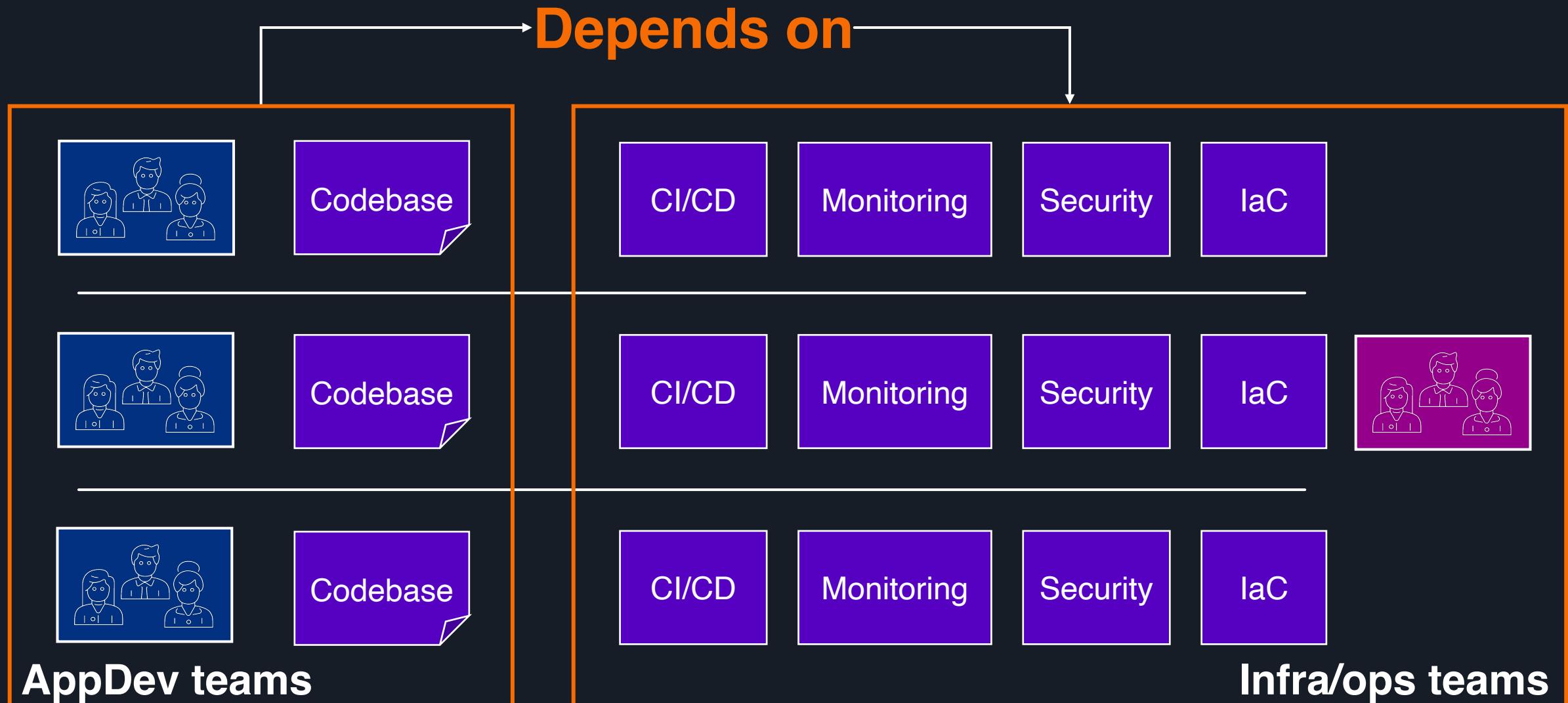
- Ran Isenberg, AWS Serverless Hero, Principal Architect, CyberArk Platform Engineering Division



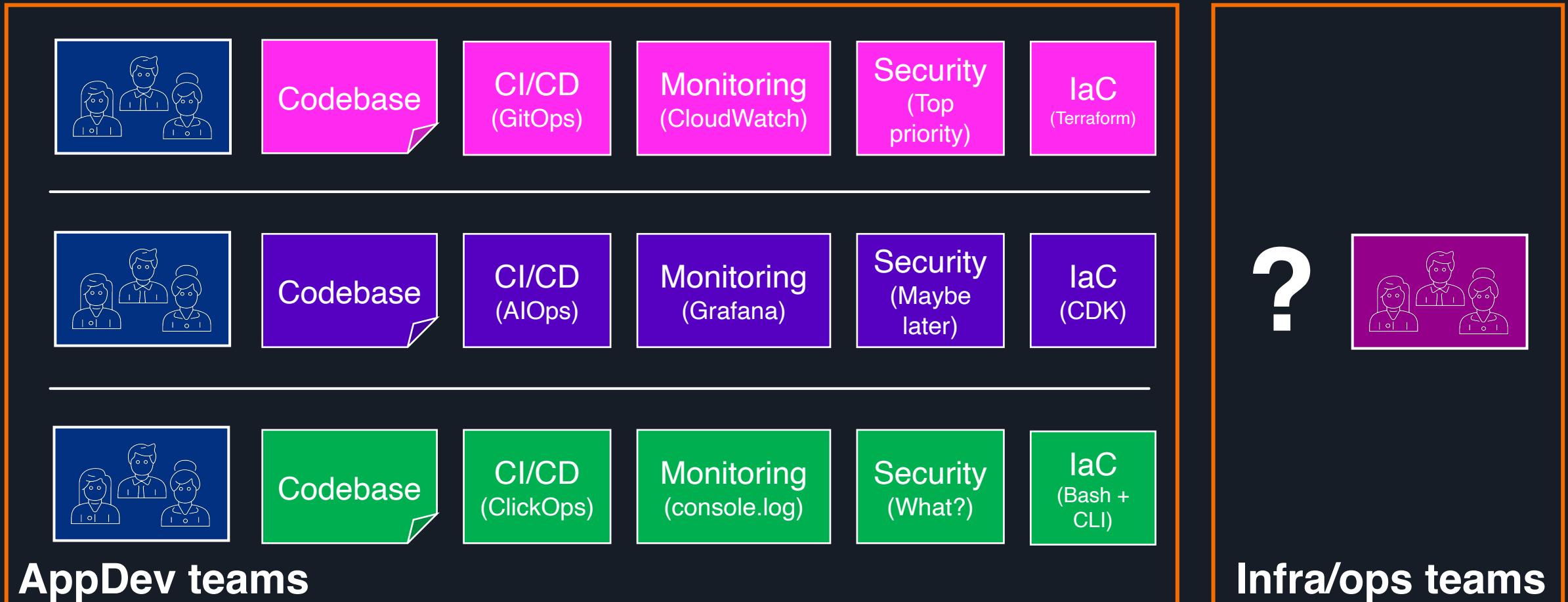
**Can you be a little
bit more specific?**



Traditional ownership boundaries

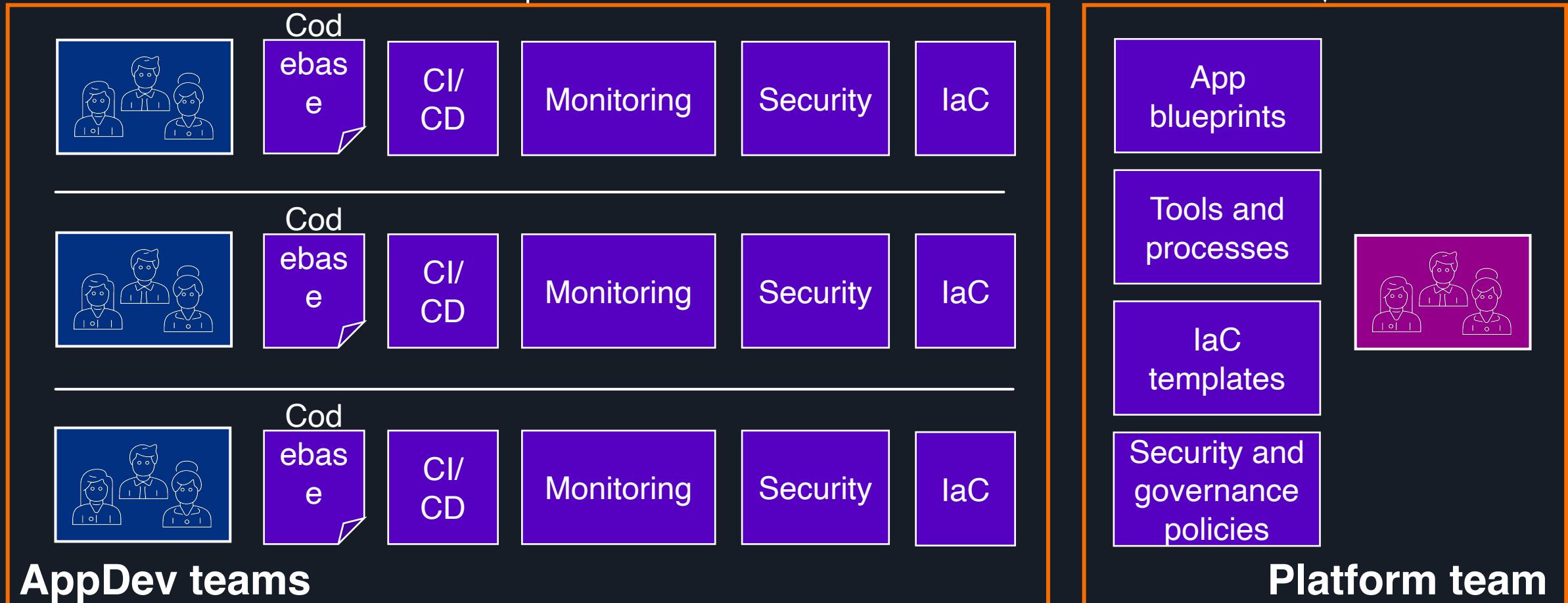


Shift-left without governance (aka wild west)



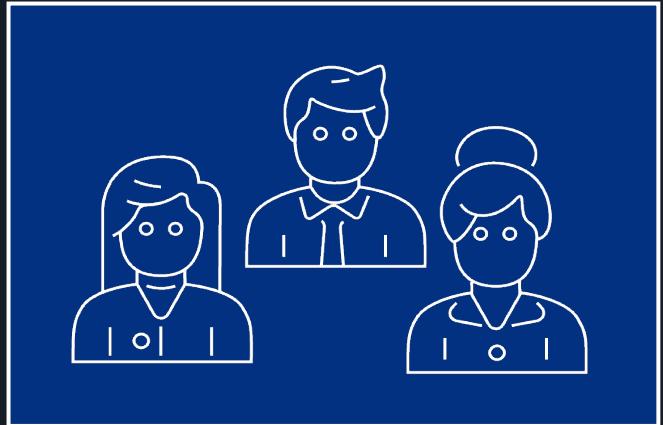
Shift-left empowered by Platform Engineering

Based on, empowered by



Building a Serverless dev platform in practice

Define infrastructure and application resources ownership model, tools, processes



Internal Developer Platform

Partners



Dev
Portal



Service Catalog



CNOE



Backstage



GitLab

Blueprints

Gove
nance



CloudFormation
Guard



Organizations



Control
Tower



cdk-nag



Sentinel



Checkov



Open Policy
Agent



Kyverno

CI/CD



CodeBuild



CodeDeploy



CodePipeline



ArgoCD



Jenkins



GitLab Actions

IAC



CloudFormation



SAM



CDK



Terraform



Pulumi



Crossplane



ACK

And
many
more

...



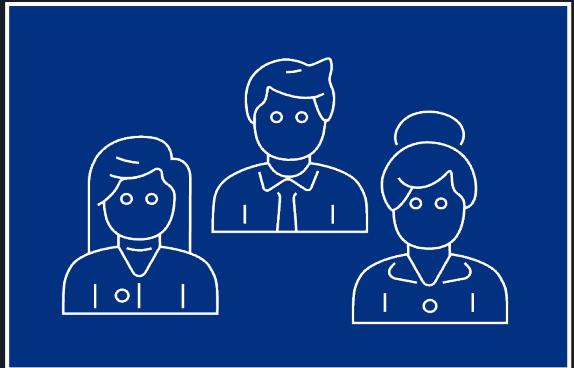
Management API

Services



Building a Serverless dev platform in practice

**Build a catalog of
vetted IaC modules
(aka constructs, aka templates)**



Modularization



Best practices



Reusability



Composability

A Terraform Module

Input (variables.tf)

```
variable "function_name" {  
    type = string  
}  
  
variable "runtime" {  
    type = string  
    default = "nodejs20.x"  
}
```

Cloud resources configuration (main.tf)

```
resource "aws_lambda_function" "lambda_function" {  
    function_name      = var.function_name  
    runtime           = var.runtime
```



A Terraform Module

Input (variables.tf)

```
variable "function_name" {  
    type = string  
}  
  
variable "runtime" {  
    type = string  
    default = "nodejs20.x"  
}  
  
variable "log_retention_days" {  
    type = number  
    default = 14  
}
```

Cloud resources configuration (main.tf)

```
resource "aws_lambda_function" "lambda_function" {  
    function_name      = var.function_name  
    runtime           = var.runtime  
    logging_config {  
        log_group = aws_cloudwatch_log_group.this.arn  
    }  
}  
  
resource "aws_cloudwatch_log_group" "this" {  
    name              = "/aws/lambda/${var.function_name}"  
    retention_in_days = var.log_retention_days  
}  
  
resource "aws_iam_policy" "this" {  
    ....  
}
```



A Terraform Module

Input (variables.tf)

```
variable "function_name" {
```

```
    resource "aws_lambda_function" "products" {
```

```
        function_name = local.function_name
```

```
        logging_config {
```

```
            application_log_level = "INFO"
```

```
            system_log_level      = "INFO"
```

```
            log_format             = "JSON"
```

```
            log_group              = aws_cloudwatch_log_group.lambda_log_group.name
```

```
        }
```

```
        tracing_config {
```

```
            mode = "Active"
```

```
        }
```

Cloud resources configuration (main.tf)

```
resource "aws_lambda_function" "lambda_function" {
```

```
    function_name = var.function_name
```

```
}
```

A Terraform Module

```
Input  
variable "f  
| type =  
| }  
  
variable "r  
| type =  
| default  
| }  
  
variable "l  
| type =  
| default  
| }  
  
resource "aws_lambda_function" "products" {  
    function_name = local.function_name  
  
    handler      = "index.handler"  
    runtime      = "nodejs20.x"  
    memory_size = 512  
    role         = aws_iam_role.lambda_role.arn  
    layers       = [local.powertools_layer_arn]  
  
    environment {  
        variables = {  
            POWERTOOLS_SERVICE_NAME      = "${var.resource_name_prefix}-products",  
            POWERTOOLS_METRICS_NAMESPACE = "${var.resource_name_prefix}-products",  
            # Below properties can help with debugging  
            POWERTOOLS_LOGGER_LOG_EVENT = false, # Logs incoming event  
            POWERTOOLS_LOG_LEVEL        = "INFO", # Changes log level  
            POWERTOOLS_DEV              = false # Increases JSON indentation  
        }  
    }  
}  
  
main.tf)  
unction" {  
.this.arn  
s" {  
.function_name}"  
days
```

A Terraform Module

Input (variables.tf)

```
variable "function_name" {  
    type = string  
}  
  
variable "runtime" {  
    type = string  
    default = "nodejs20.x"  
}  
  
variable "log_retention_days" {  
    type = number  
    default = 14  
}
```

Cloud resources configuration (main.tf)

```
resource "aws_lambda_function" "lambda_function" {  
    function_name      = var.function_name  
    runtime           = var.runtime  
    logging_config {  
        log_group = aws_cloudwatch_log_group.this.arn  
    }  
}  
  
resource "aws_cloudwatch_log_group" "this" {  
    name              = "/aws/lambda/${var.function_name}"  
    retention_in_days = var.log_retention_days  
}  
  
resource "aws_iam_policy" "this" {  
    ....  
}
```



A Terraform Module

A Terraform Module



Lambda

Best Practices

Variables

`function_name`
`memory_size`
`source_path`
`runtime`
`handler`
`attach_vpc`
`log_retention_days`
`enable_furl`
`etc...`

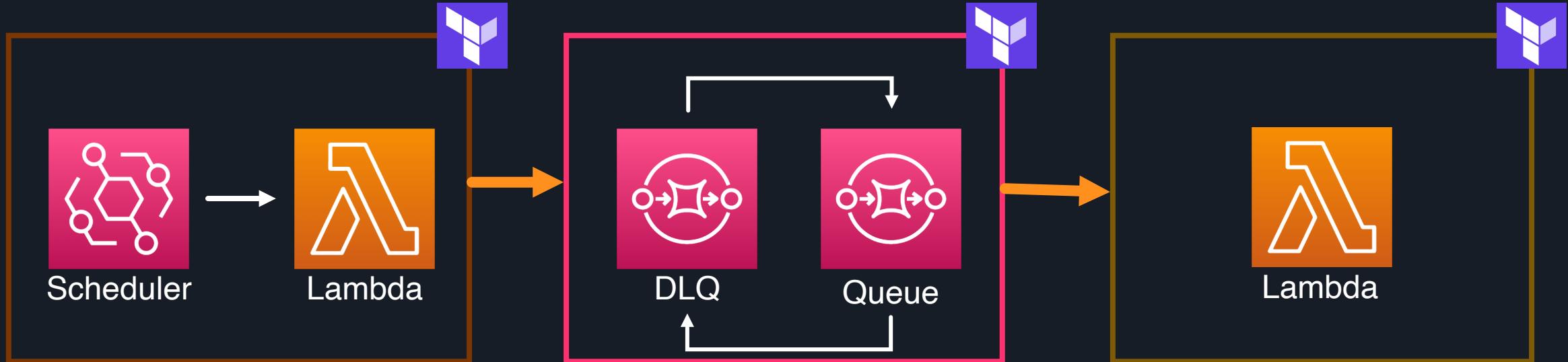
A Terraform Module



Outputs

`function_arn`
`log_group_arn`
`function_url`

Reusability and Composability

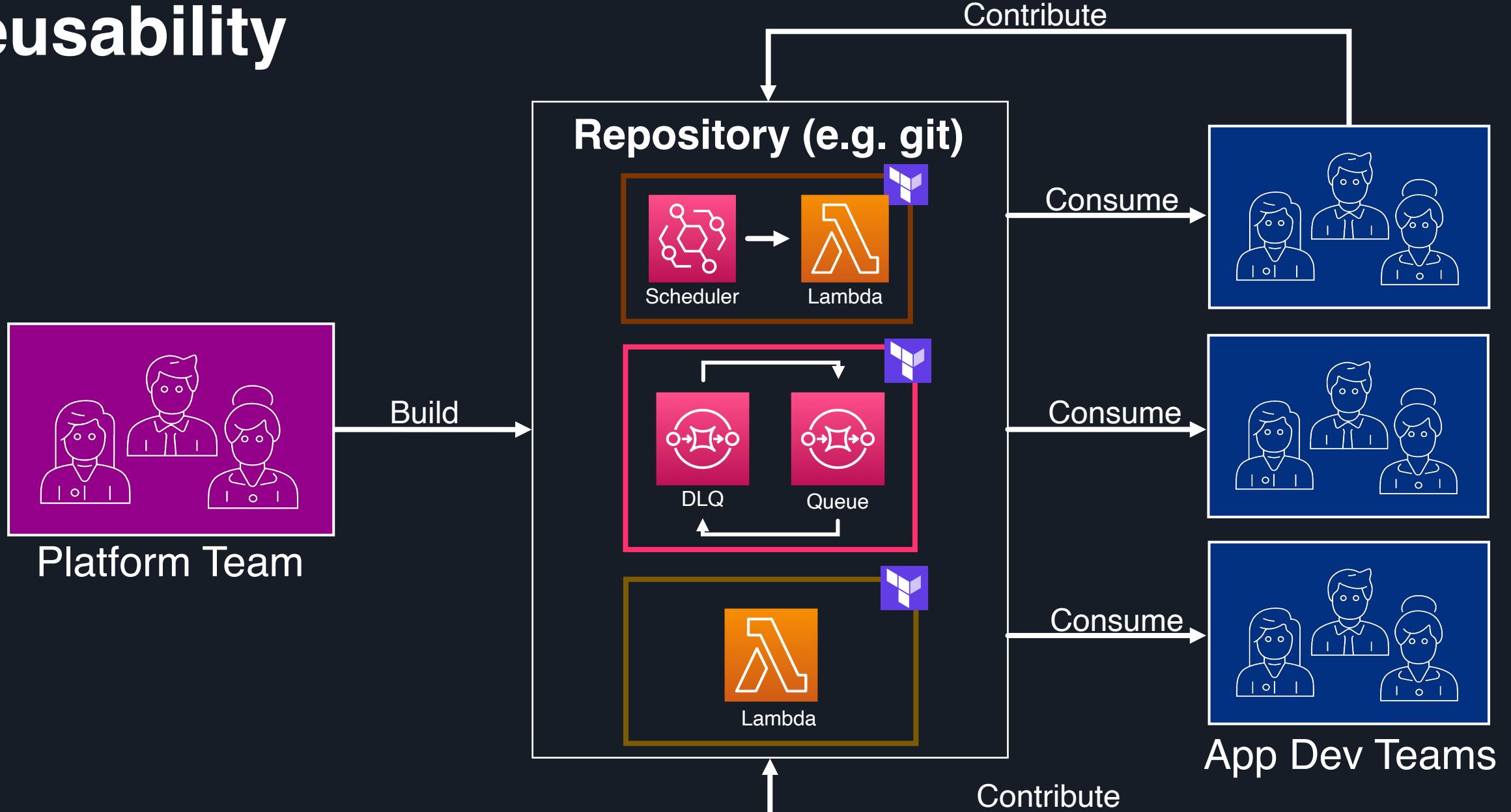


**Lambda function
with periodical
scheduler**

**SQS Queue with
redrive**

**Baseline Lambda
function**

Reusability



Open-source / community projects



Serverless.tf



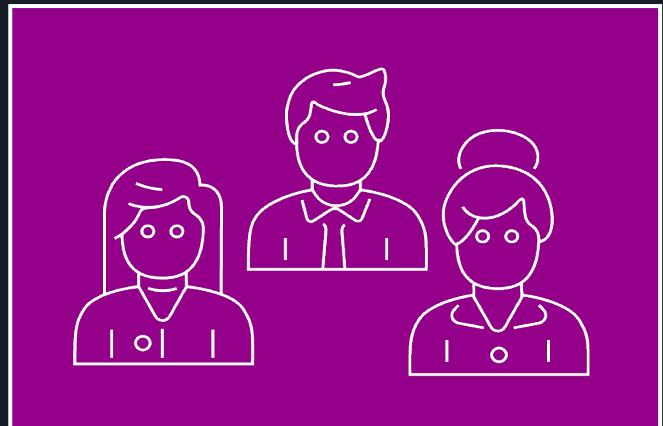
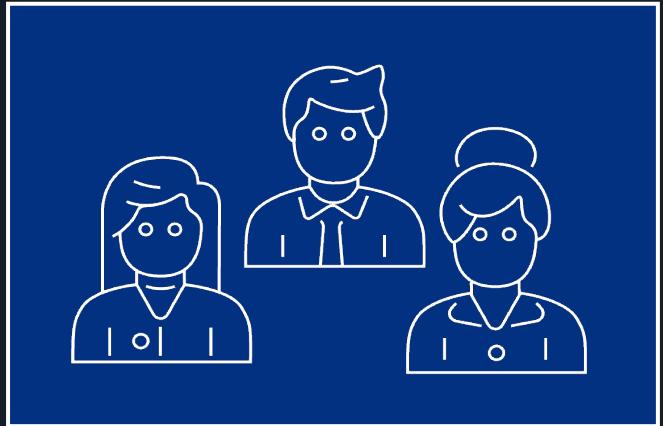
ConstructHub



Awesome-serverless-blueprints

Building a Serverless dev platform in practice

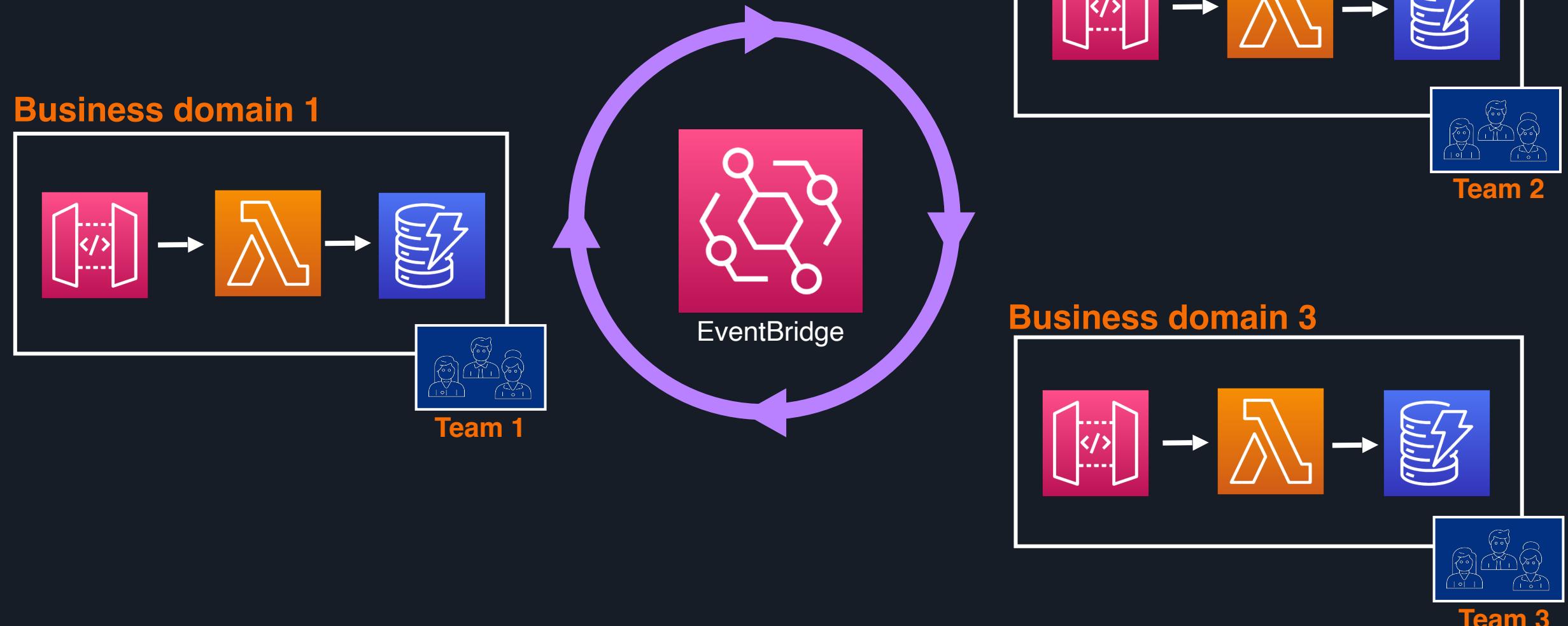
**Build and evolve
architectural blueprints**



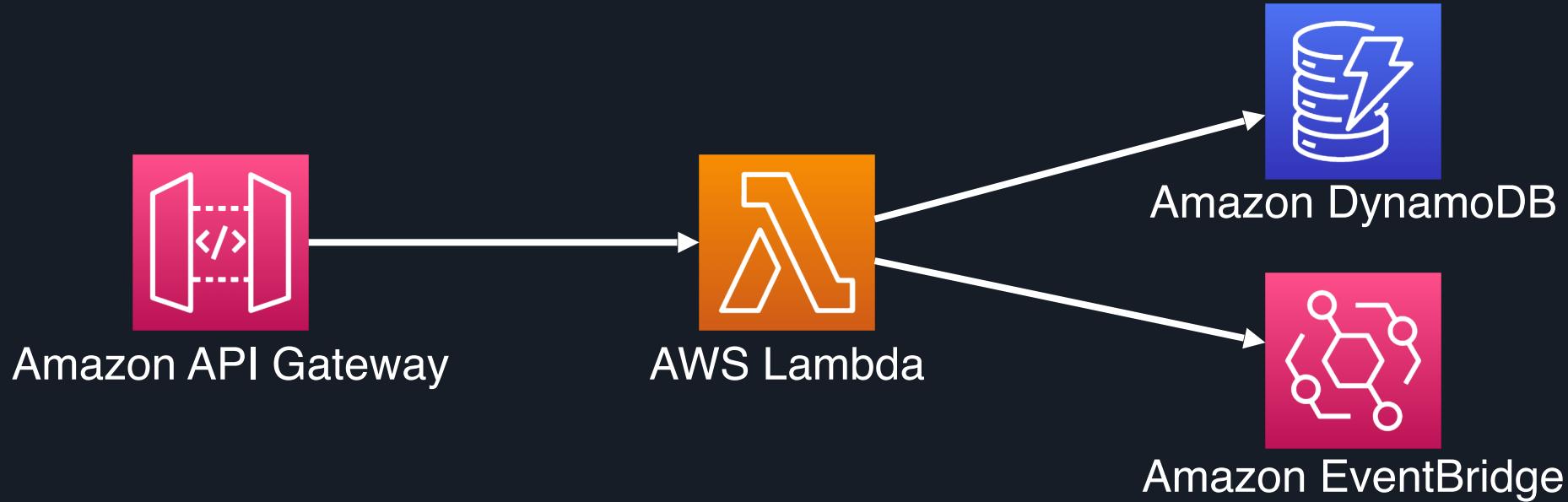
Architectural Patterns



Identify usage trends



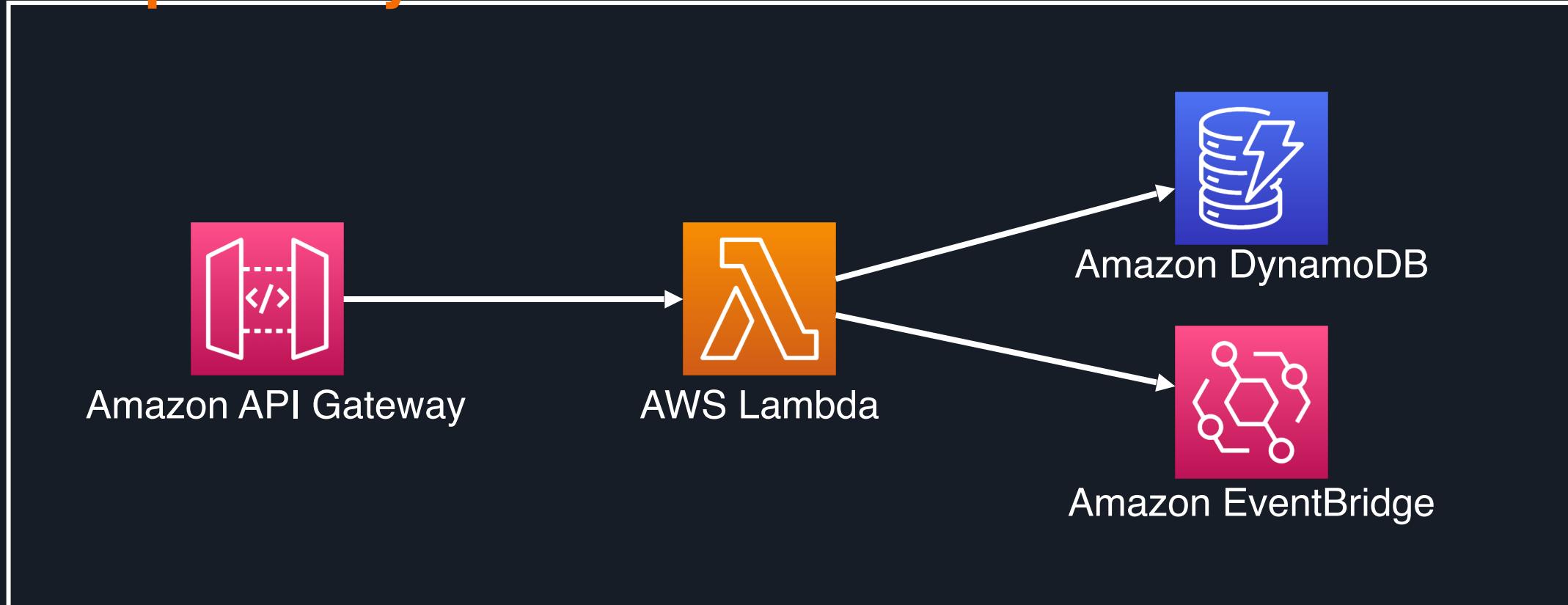
Bring it all together



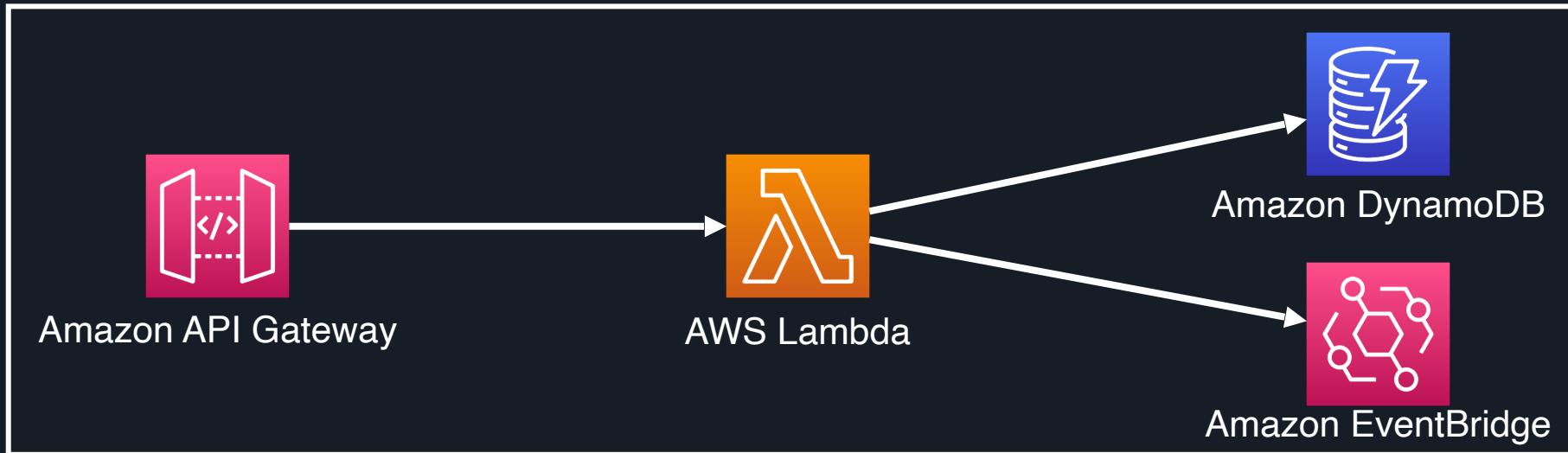
Arrows are as important as blocks

Serverless Blueprint

Blueprint - Synchronous API with database



Serverless Blueprint



Observability, security, best practices, governance, CI/CD, FinOps

- API consistency
 - Authorization
 - TLS/mTLS
 - Rate limits
 - Throttling
 - Documentation
 - WAF
- Resource allocation
 - Access policies
 - VPC-attachment
 - Code-signing
 - Versioning
 - Canary deployments
 - Tenancy management
- Billing mode
 - Deletion protection
 - Server-side encryption
 - Event rules and targets
 - Dead-letter queue
 - Event archiving
 - Secret management

Serverless Blueprint – FinOps with Tags

```
provider "aws" {
    region = "us-east-1"

    default_tags {
        tags = {
            Environment = var.tag_environment
            Department  = var.tag_department
            Service     = var.tag_service
        }
    }
}
```

Serverless Blueprint – FinOps with Tags

```
terraform > environments >  development.tfvars >
```

```
1  tag_environment = "development"
2  tag_department = "sales"
3  tag_service = "orders-processor"
```

```
provider "aws" {
    region = "us-east-1"

    default_tags {
        tags = {
            Environment = var.tag_environment
            Department  = var.tag_department
            Service     = var.tag_service
        }
    }
}
```

```
terraform > environments >  production.tfvars >
```

```
1  tag_environment = "production"
2  tag_department = "sales"
3  tag_service = "orders-processor"
```

Serverless Blueprint - DynamoDB

```
resource "aws_dynamodb_table" "data_table" {
    name          = "${var.resource_name_prefix}-data-table"
    billing_mode = "PAY_PER_REQUEST"

    point_in_time_recovery {
        enabled = true
    }

    server_side_encryption {
        enabled = true
    }

    ttl {
        attribute_name = "TimeToLive"
        enabled       = true
    }
}
```



Terraform

CDK

CloudFormation

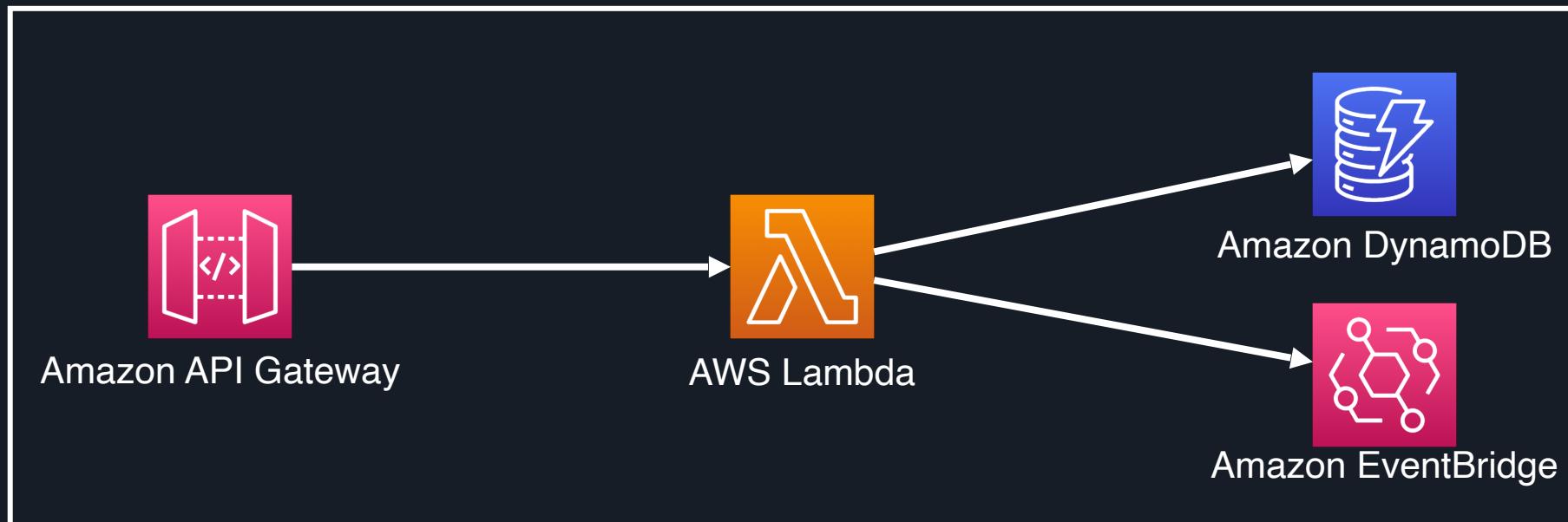
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Serverless Blueprint – Lambda + DynamoDB

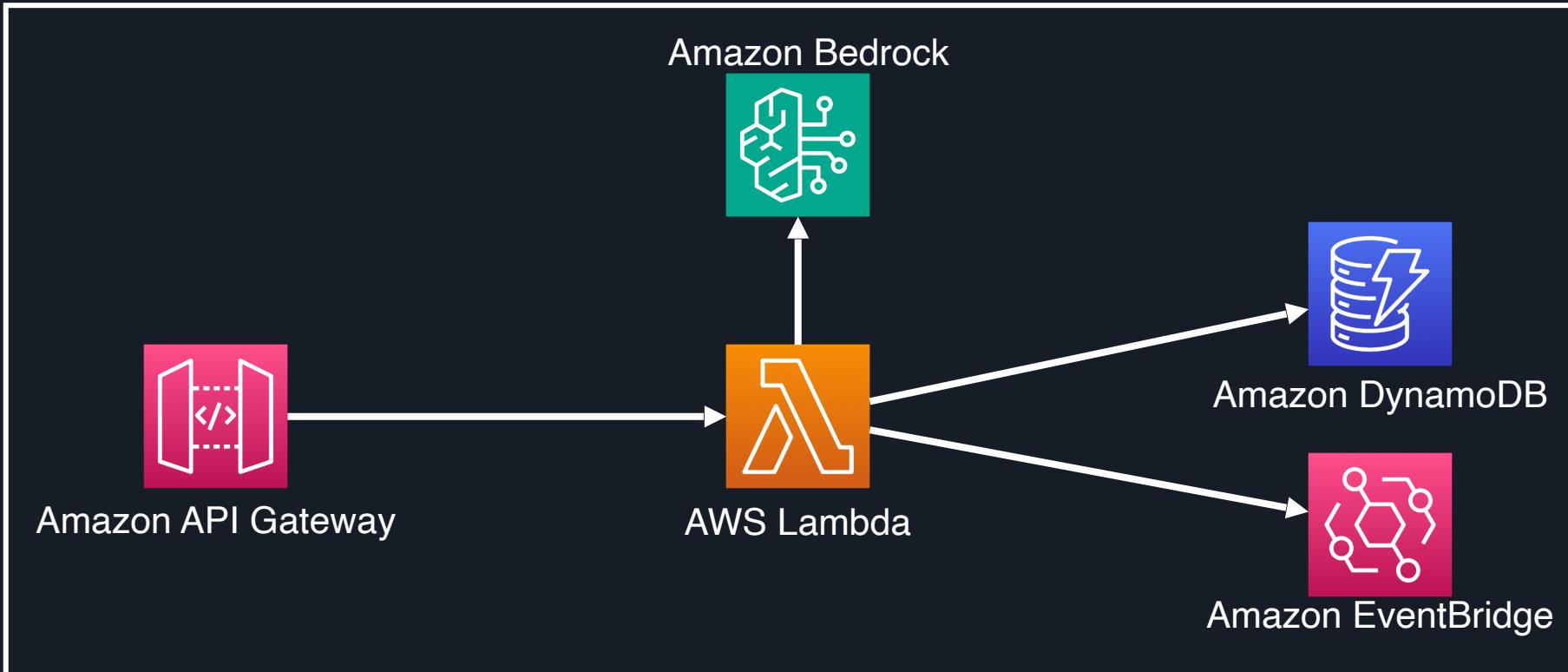
```
resource "aws_iam_policy" "lambda_ddb_data_table_access_policy" {
  name          = "${var.resource_name_prefix}-lambda-ddb-data-table-access-policy"
  description   = "Grants GetItem and PutItem access to DynamoDB data table"

  policy = jsonencode({
    Version = "2012-10-17",
    Statement = [
      {
        Action = ["dynamodb:PutItem", "dynamodb:GetItem", "dynamodb:UpdateItem"],
        Effect = "Allow",
        Resource = [var.ddb_data_table_arn]
      }
    ]
  })
}
```

Serverless Blueprint



Serverless Blueprint for genAI applications



Serverless Blueprint for genAI applications

```
resource "aws_iam_policy" "bedrock_invoke_only_specific_model" {
  policy = jsonencode({
    Version = "2012-10-17"
    Statement = [
      {
        Sid      = "AllowInvokeSpecificModel"
        Effect   = "Allow"
        Action   = [
          "bedrock:InvokeModel",
          "bedrock:InvokeModelWithResponseStream"
        ]
        Resource = "arn:aws:bedrock:us-east-1::foundation-model/anthropic.claude-sonnet-4-20250514-v1:0"
      },
      {
        Sid      = "DenyInvokeAllOtherModels"
        # redacted
      }
    ]
  })
}
```



Serverless Blueprint for genAI applications

IaC

```
resource "aws_lambda_function" "bedrock_lambda" {
  # redacted

  environment {
    variables = {
      MODEL_ID      = "anthropic.claude-opus-4-20250514-v1:0"
      MAX_TOKENS    = "512"
      TEMPERATURE   = "0.7"
      TOP_P         = "0.9"
    }
  }
}
```

Function handler code

```
def handler(event, context):
    model_id      = os.getenv("MODEL_ID")
    max_tokens    = os.getenv("MAX_TOKENS")
    temperature   = os.getenv("TEMPERATURE")
    top_p          = os.getenv("TOP_P")

    resp = bedrock.converse(
        modelId=model_id,
        messages=[...],
        inferenceConfig={
            "maxTokens": max_tokens,
            "temperature": temperature,
            "topP": top_p
        }
    )

    # redacted
```



Function Blueprints



AWS Lambda

Handler (business domain code)

Function Blueprints



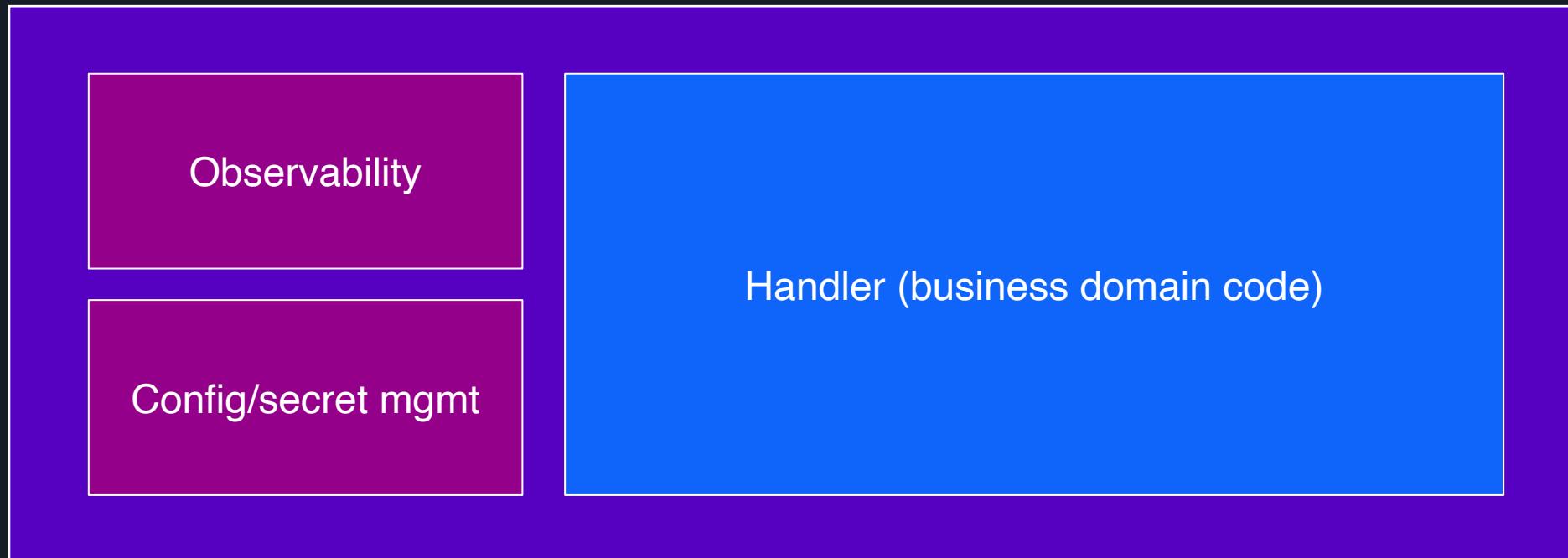
AWS Lambda



Function Blueprints



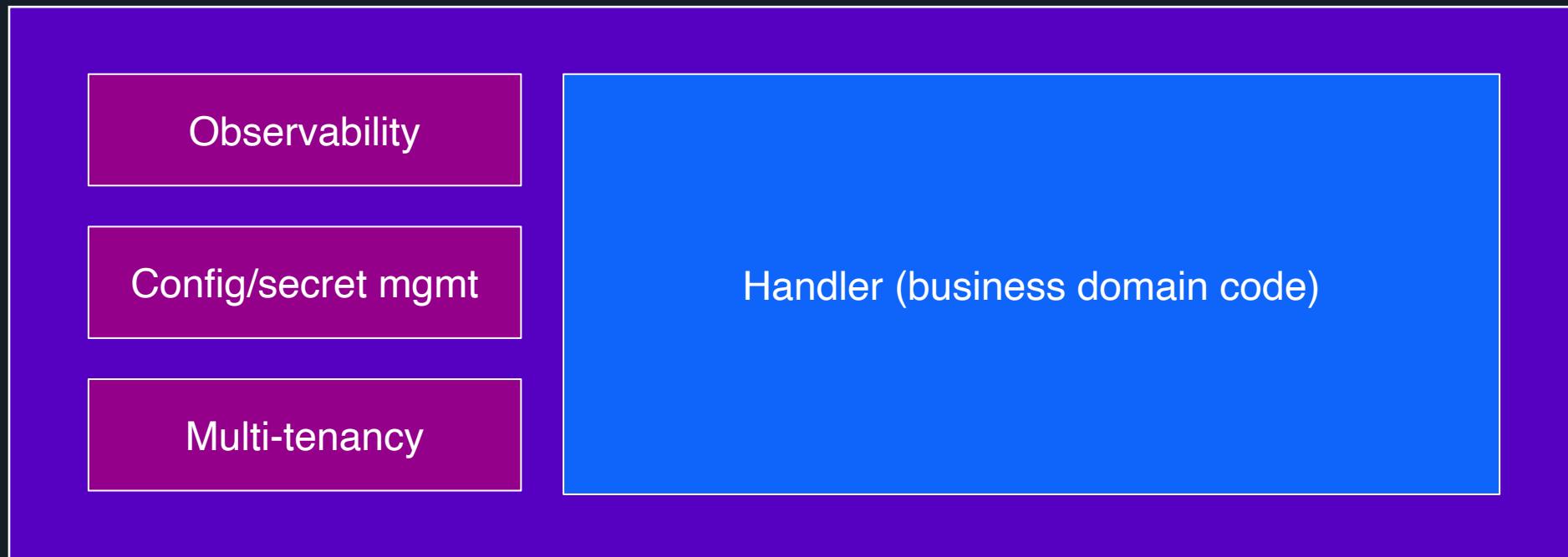
AWS Lambda



Function Blueprints



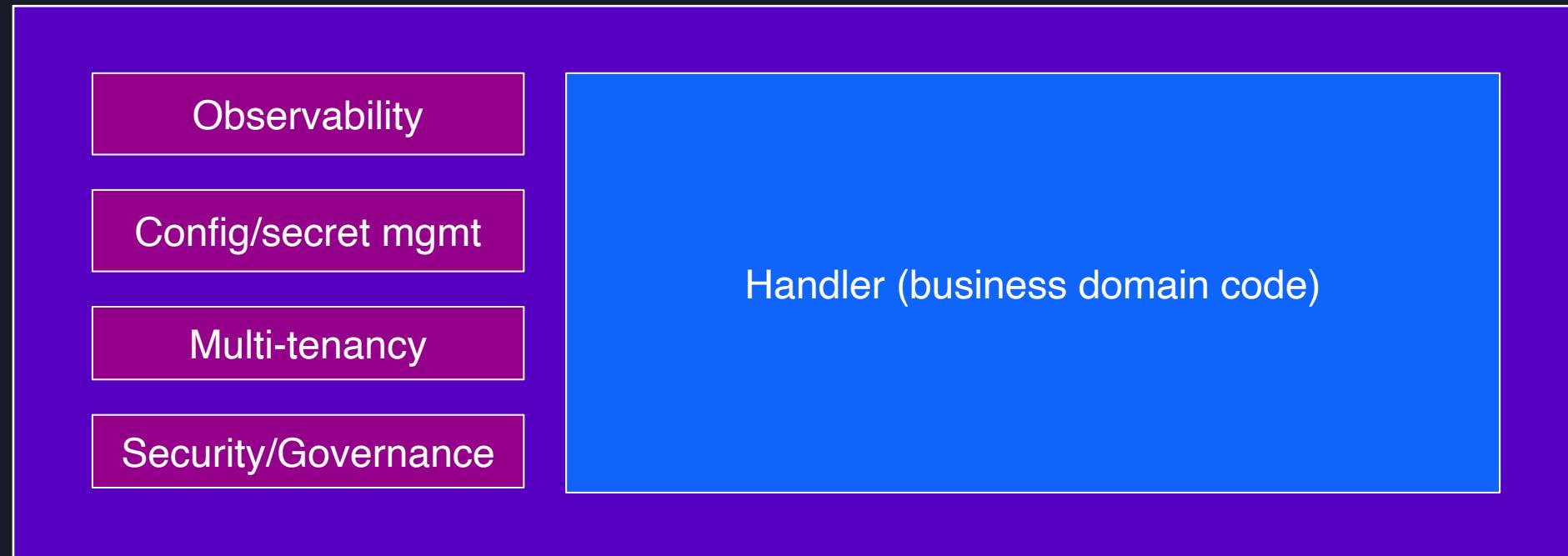
AWS Lambda



Function Blueprints



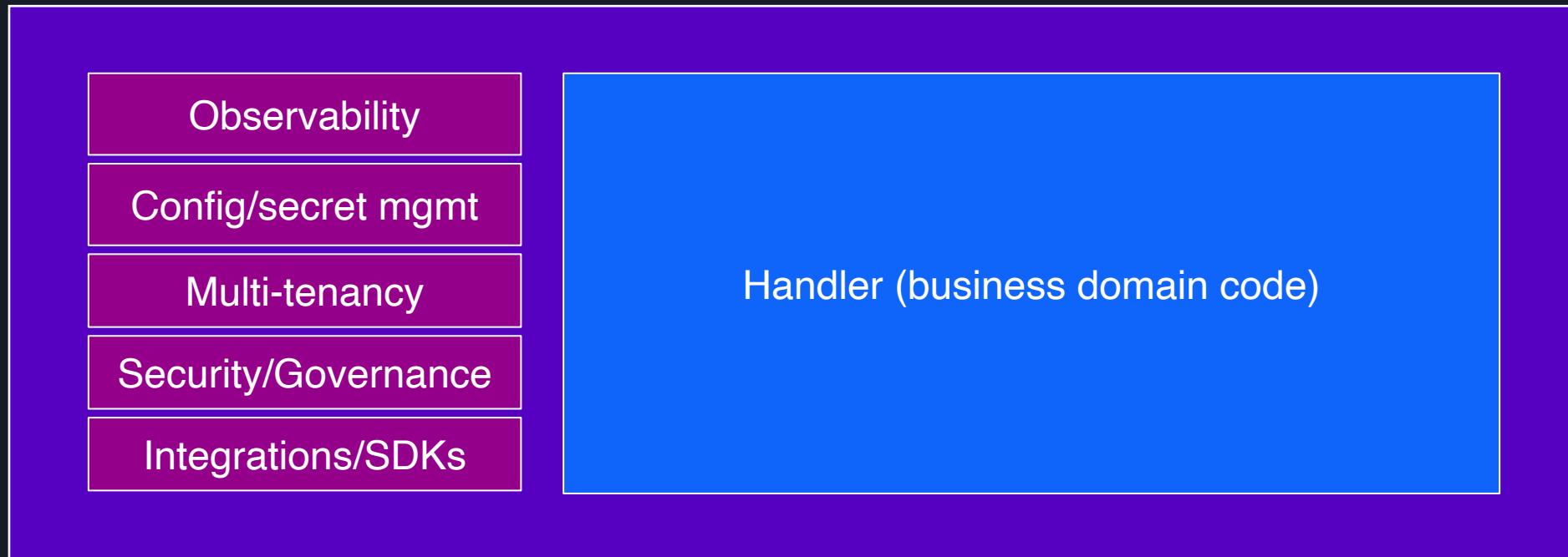
AWS Lambda



Function Blueprints

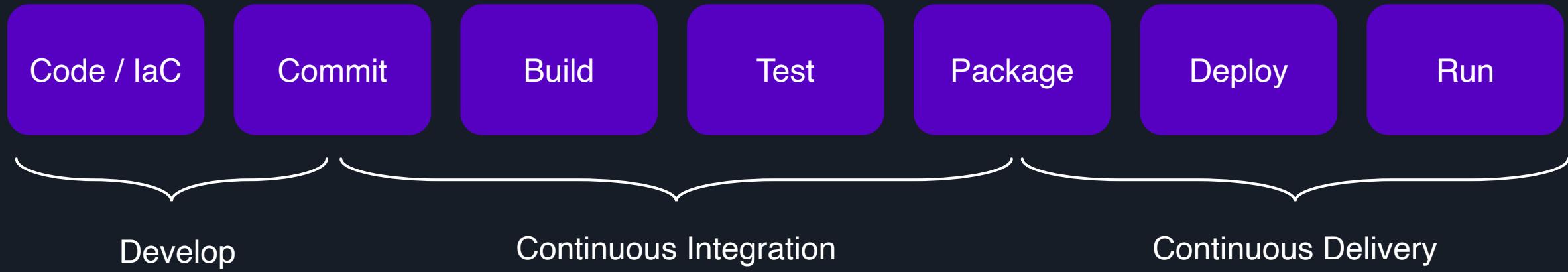


AWS Lambda

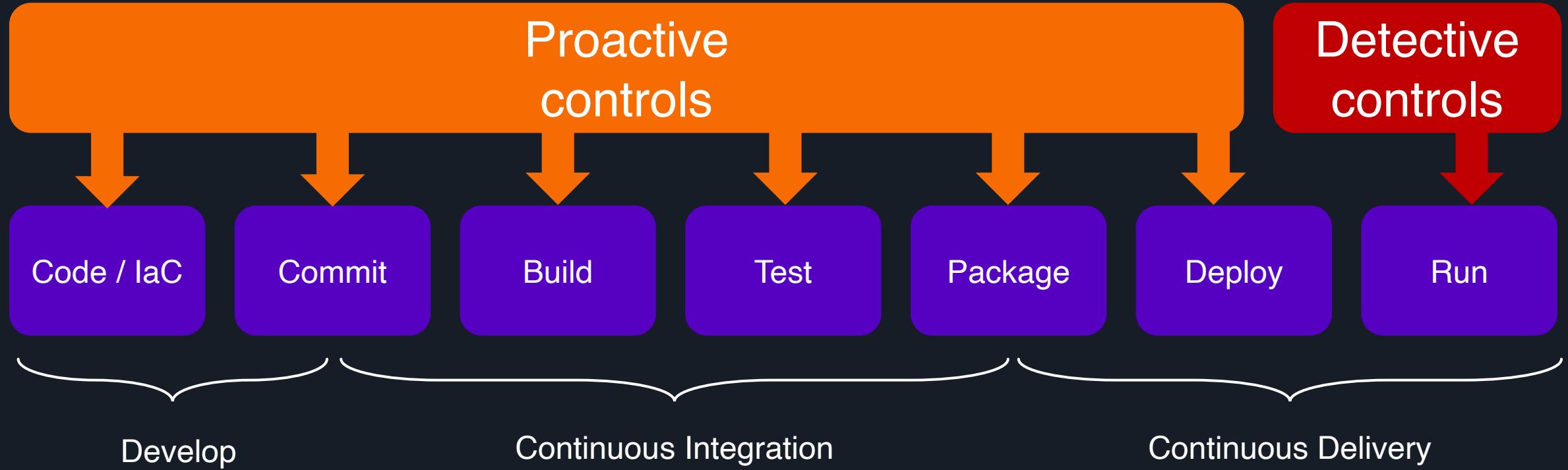


But what if developers want to make changes to the blueprint / pattern!?

End-to-end governance with CI/CD



End-to-end governance with CI/CD



End-to-end governance with CI/CD



AWS CloudFormation Guard
(template validation)



AWS Signer
(code signing)



AWS Config
(proactive/detective)



Amazon Inspector
(code scanning)



AWS CDK
(cdk-nag)



AWS Organizations
(proactive/detective)



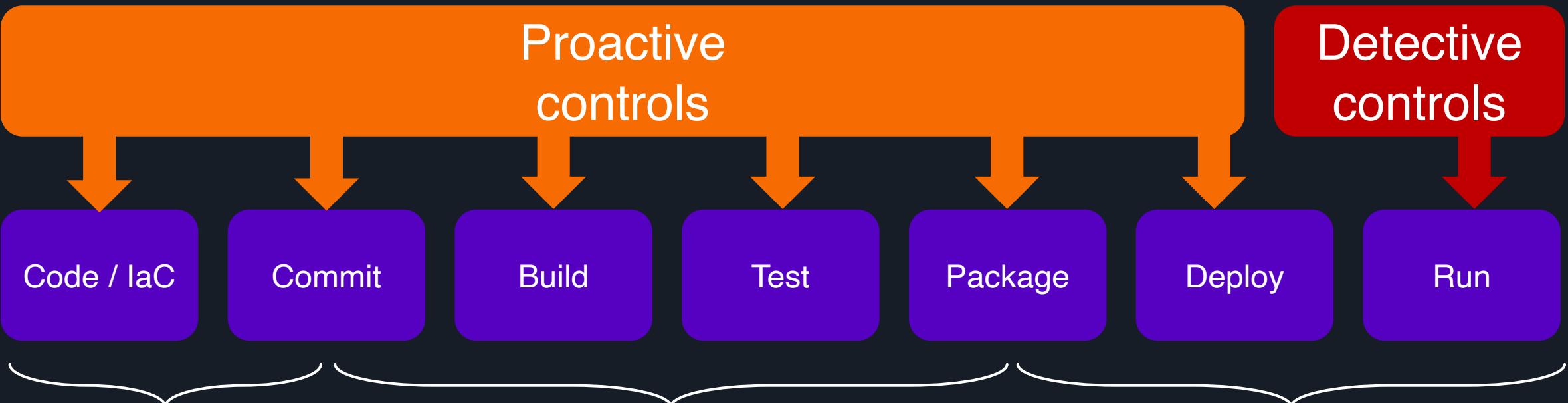
AWS Control Tower
(multi-account environments)



HashiCorp Sentinel
Policies

Proactive
controls

Detective
controls



Proactive Governance Controls



Checkov



AWS CloudFormation
Guard



CDK-NAG



HashiCorp
Sentinel

Proactive Governance Controls



Passed checks: 41, Failed checks: 0, Skipped checks: 5

```
Check: CKV_AWS_274: "Disallow IAM roles, users, and groups from using the AWS AdministratorAccess policy"
    PASSED for resource: aws_iam_role.lambda_role
    File: /main.tf:7-23
    Guide: https://docs.prismacloud.io/en/enterprise-edition/policy-reference/aws-policies/aws-iam-policies/bc-aws-274
Check: CKV_AWS_61: "Ensure AWS IAM policy does not allow assume role permission across all services"
    PASSED for resource: aws_iam_role.lambda_role
    File: /main.tf:7-23
    Guide: https://docs.prismacloud.io/en/enterprise-edition/policy-reference/aws-policies/aws-iam-policies/bc-aws-iam-45
Check: CKV_AWS_60: "Ensure IAM role allows only specific services or principals to assume it"
    PASSED for resource: aws_iam_role.lambda_role
    File: /main.tf:7-23
    Guide: https://docs.prismacloud.io/en/enterprise-edition/policy-reference/aws-policies/aws-iam-policies/bc-aws-iam-44
Check: CKV_AWS_66: "Ensure that CloudWatch Log Group specifies retention days"
    PASSED for resource: aws_cloudwatch_log_group.lambda_log_group
    File: /main.tf:31-35
    Guide: https://docs.prismacloud.io/en/enterprise-edition/policy-reference/aws-policies/aws-logging-policies/logging-13
Check: CKV_AWS_338: "Ensure CloudWatch log groups retains logs for at least 1 year"
    PASSED for resource: aws_cloudwatch_log_group.lambda_log_group
    File: /main.tf:31-35
    Guide: https://docs.prismacloud.io/en/enterprise-edition/policy-reference/aws-policies/aws-logging-policies/bc-aws-338
```



Terraform CDK CloudFormation

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Proactive Governance Controls

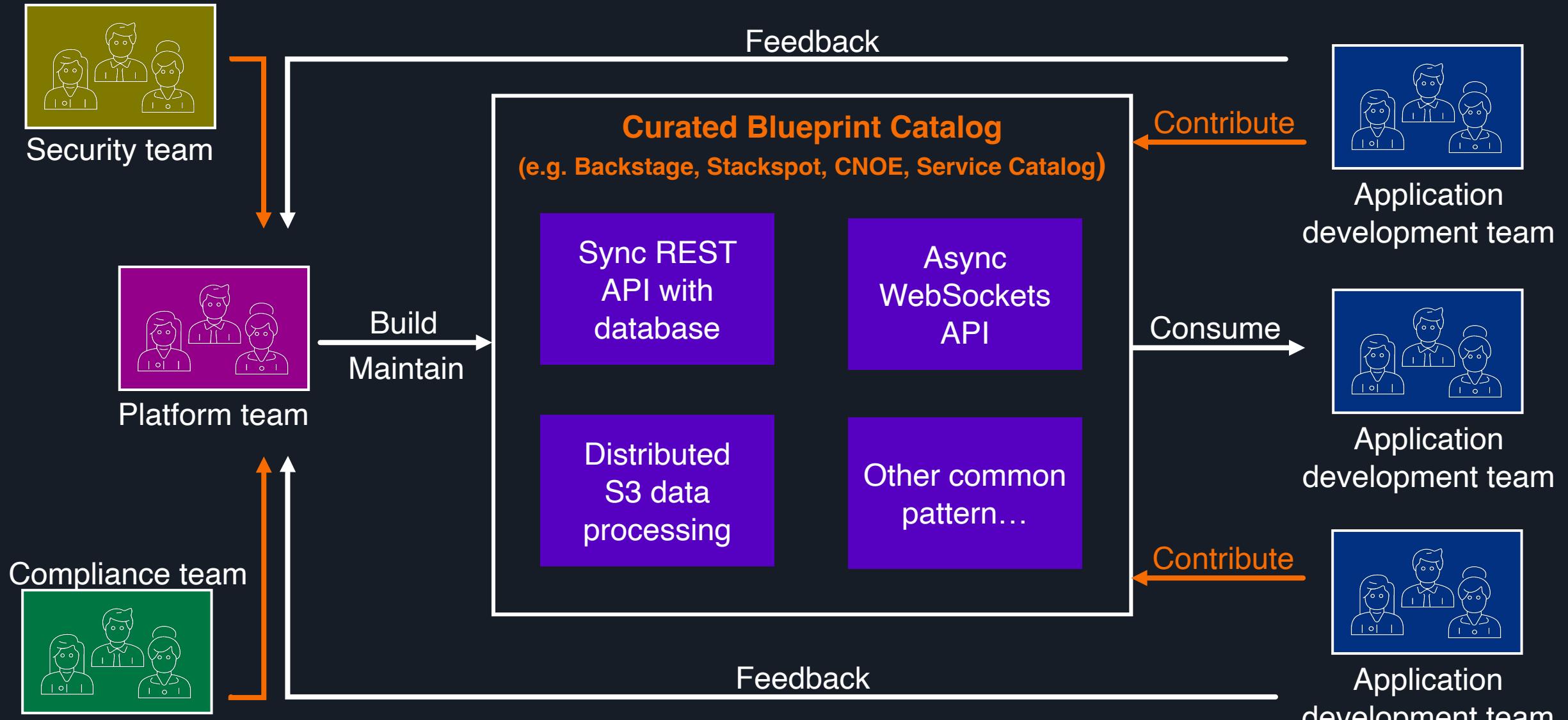


```
Check: CKV_AWS_66: "Ensure that CloudWatch Log Group specifies retention days"
    PASSED for resource: aws_cloudwatch_log_group.lambda_log_group
    File: /main.tf:31-35
    Guide: https://docs.prismacloud.io/en/enterprise-edition/policy-reference/aws-policies/aws-logging-policies/logging-13
Check: CKV_AWS_338: "Ensure CloudWatch log groups retains logs for at least 1 year"
    PASSED for resource: aws_cloudwatch_log_group.lambda_log_group
    File: /main.tf:31-35
    Guide: https://docs.prismacloud.io/en/enterprise-edition/policy-reference/aws-policies/aws-logging-policies/bc-aws-338
```



```
Check: CKV_AWS_66: "Ensure that CloudWatch Log Group specifies retention days"
    FAILED for resource: aws_cloudwatch_log_group.lambda_log_group
    File: /main.tf:31-35
    Guide: https://docs.prismacloud.io/en/enterprise-edition/policy-reference/aws-policies/aws-logging-policies/logging-13
Check: CKV_AWS_338: "Ensure CloudWatch log groups retains logs for at least 1 year"
    FAILED for resource: aws_cloudwatch_log_group.lambda_log_group
    File: /main.tf:31-35
    Guide: https://docs.prismacloud.io/en/enterprise-edition/policy-reference/aws-policies/aws-logging-policies/bc-aws-338
```

Blueprint Lifecycle





CYBERARK®
THE IDENTITY SECURITY COMPANY®

**CyberArk identity security platform
enables secure access for any
identity – human or machine – to
any resource or environment from
anywhere, using any device.**



Founded 1999



Identity and Access
Management Leader



4,000+ employees
1,000+ developers



Cloud-native, serverless-first
SaaS company



The SaaS Provider Evolution



Fragmented:

- Developer experience
- Tech stack
- Architecture
- Observability
- User Experience

🚀 Platform Engineering team established with 15 engineers

- Streamlined **tech stack**, **observability**, security, governance, **customer experience**, tooling...
- Used by 100s of developers
- Saved **years** of dev time
- 100+ engineers, 2 divisions



Early days

2020

Today

One down, **hundreds** to go



Adopt and scale
Serverless
across organization



Maintain **standards and best-practices** for architecture, governance, security, observability



Help organization to
deliver value faster for our customers

So, we've built a **serverless** platform



Encapsulated automation
and best practices into
blueprints **used by 100s of**
developers for dozens of
services



New service creation time
reduced by **99%**



Saved **YEARS of**
development time and
MILLIONS of \$\$\$

Ran Isenberg



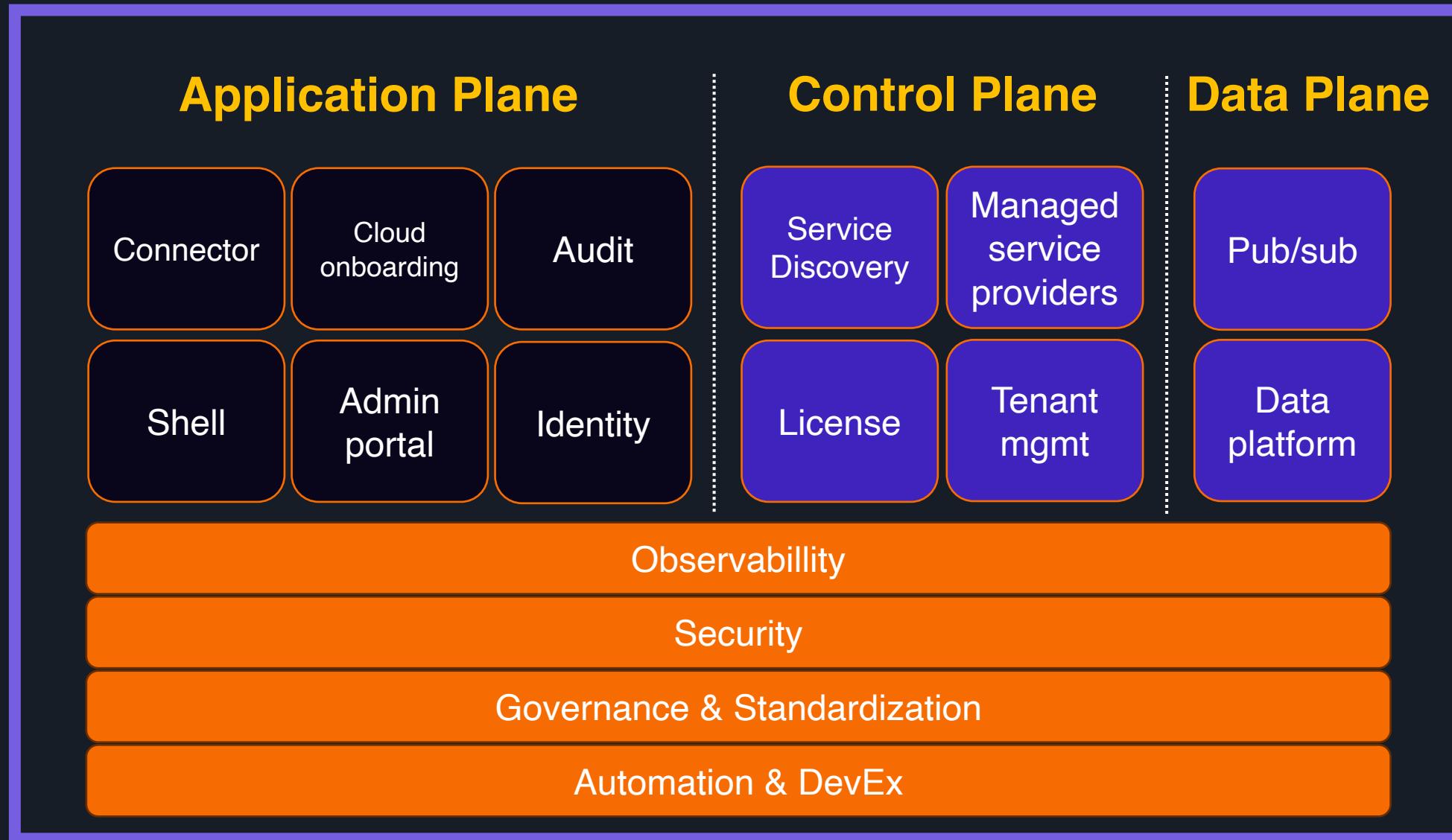
- Principal Software Architect @**CyberArk**
- AWS Serverless Hero
- <https://www.RanTheBuilder.Cloud>
- RanBuilder



@RanTheBuilder.cloud



Platform Engineering: SaaS Products Overview

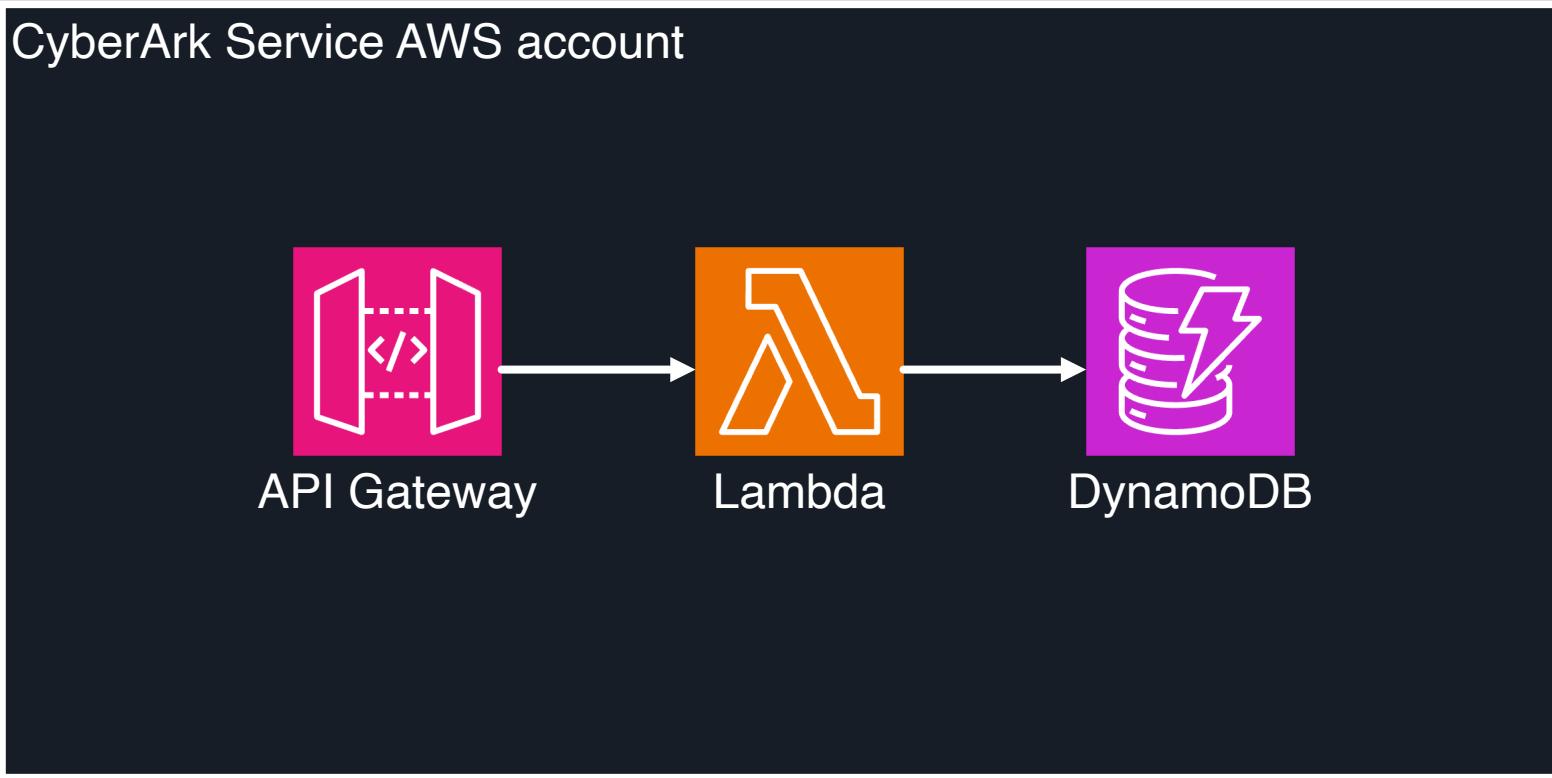


Scaling Enterprise-Grade Serverless Services

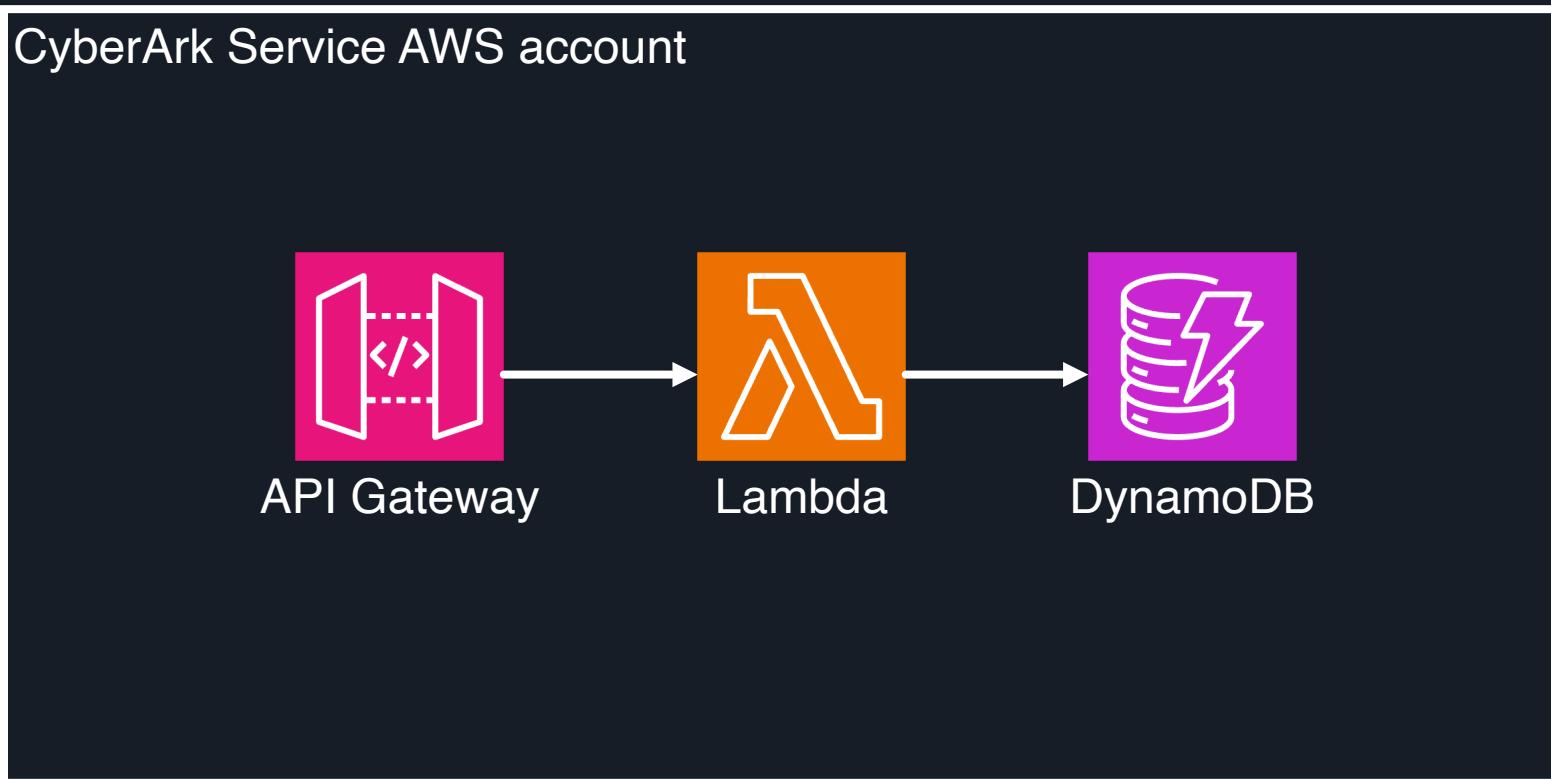


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Challenges for a new enterprise-grade SaaS Service



Challenges for a new enterprise-grade SaaS Service



IaC

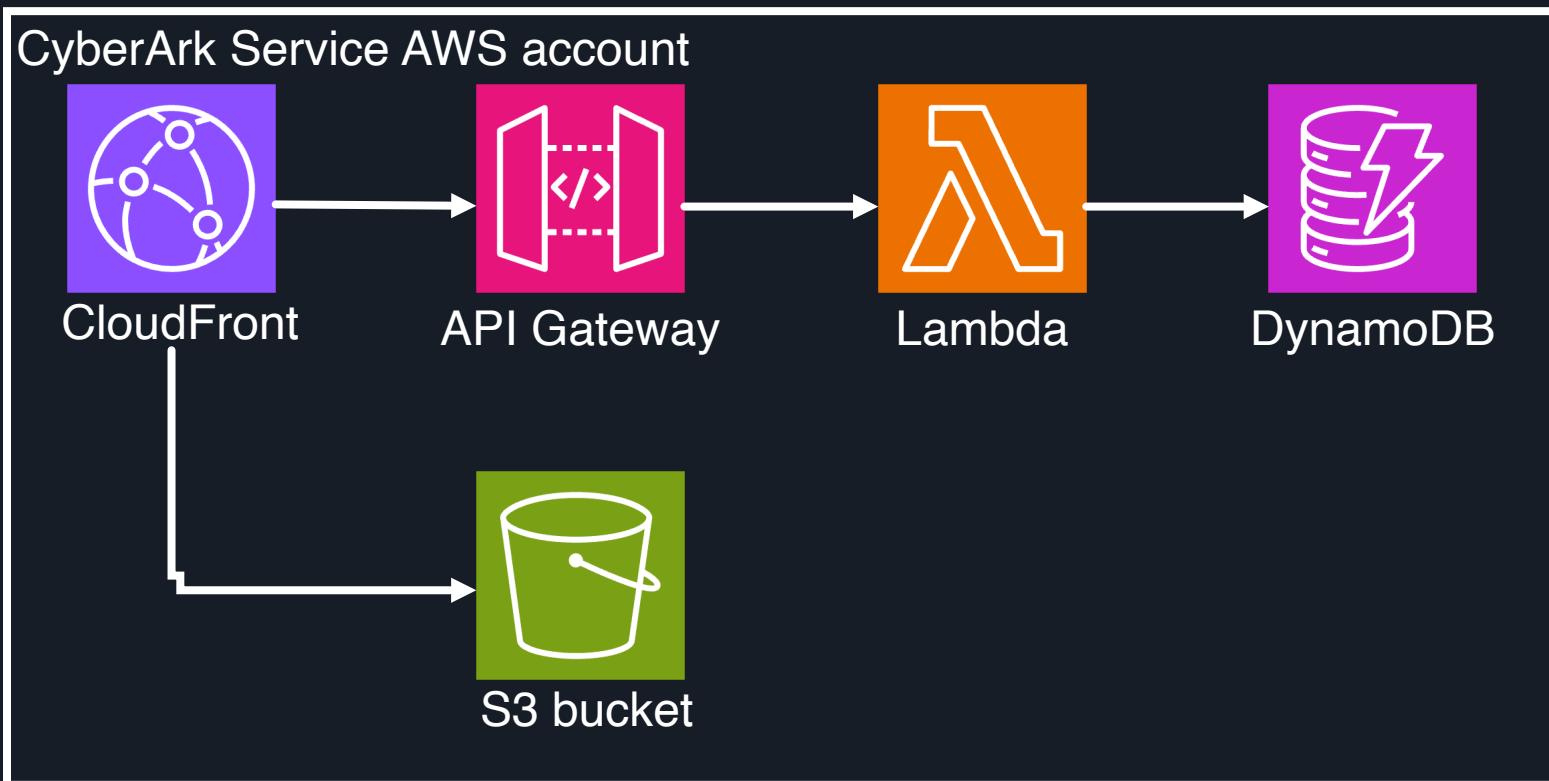
CI/CD
pipeline

Best
practices

Testing

Observability

Challenges for a new enterprise-grade SaaS Service



IaC

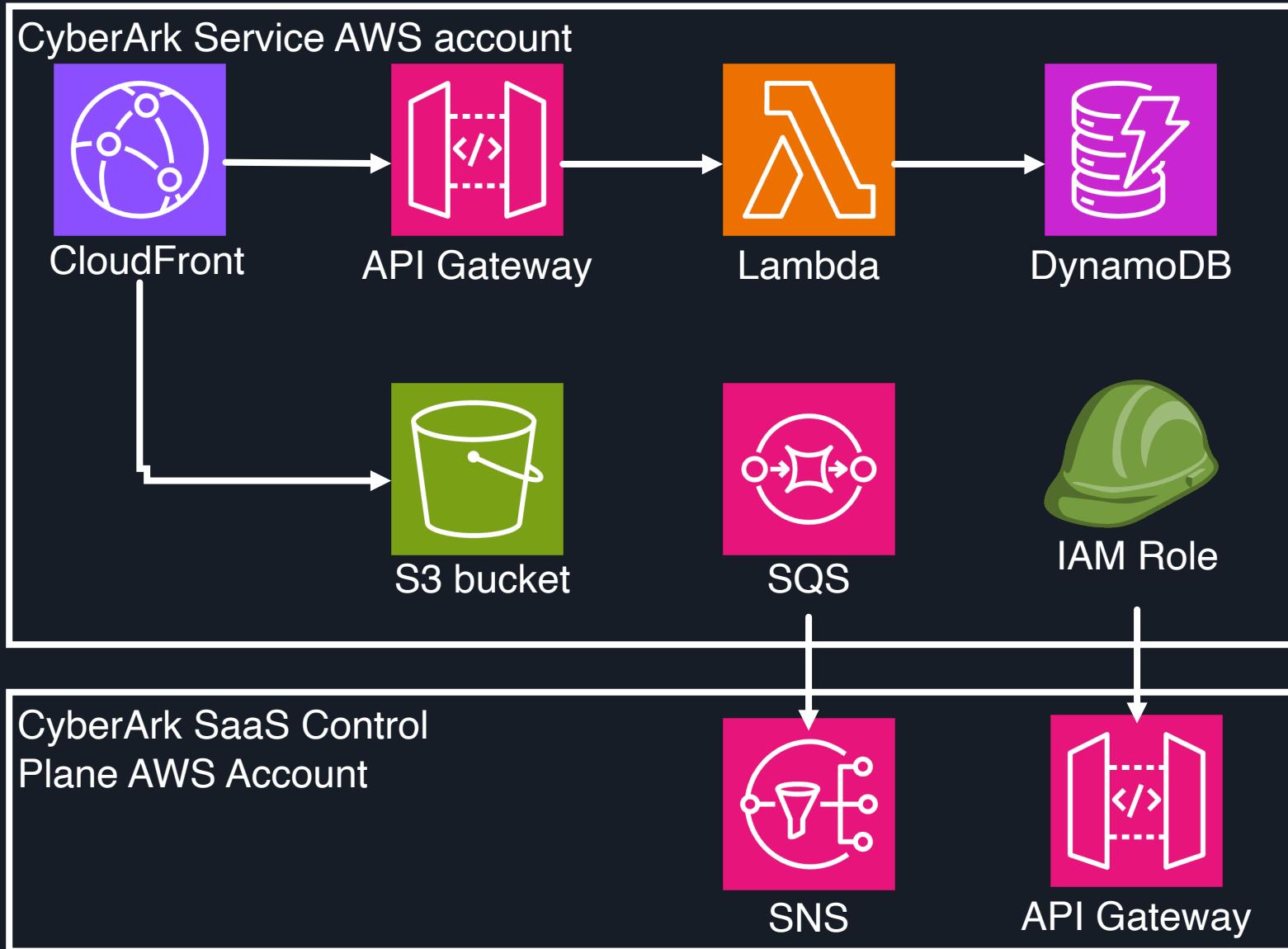
CI/CD
pipeline

Best
practices

Testing

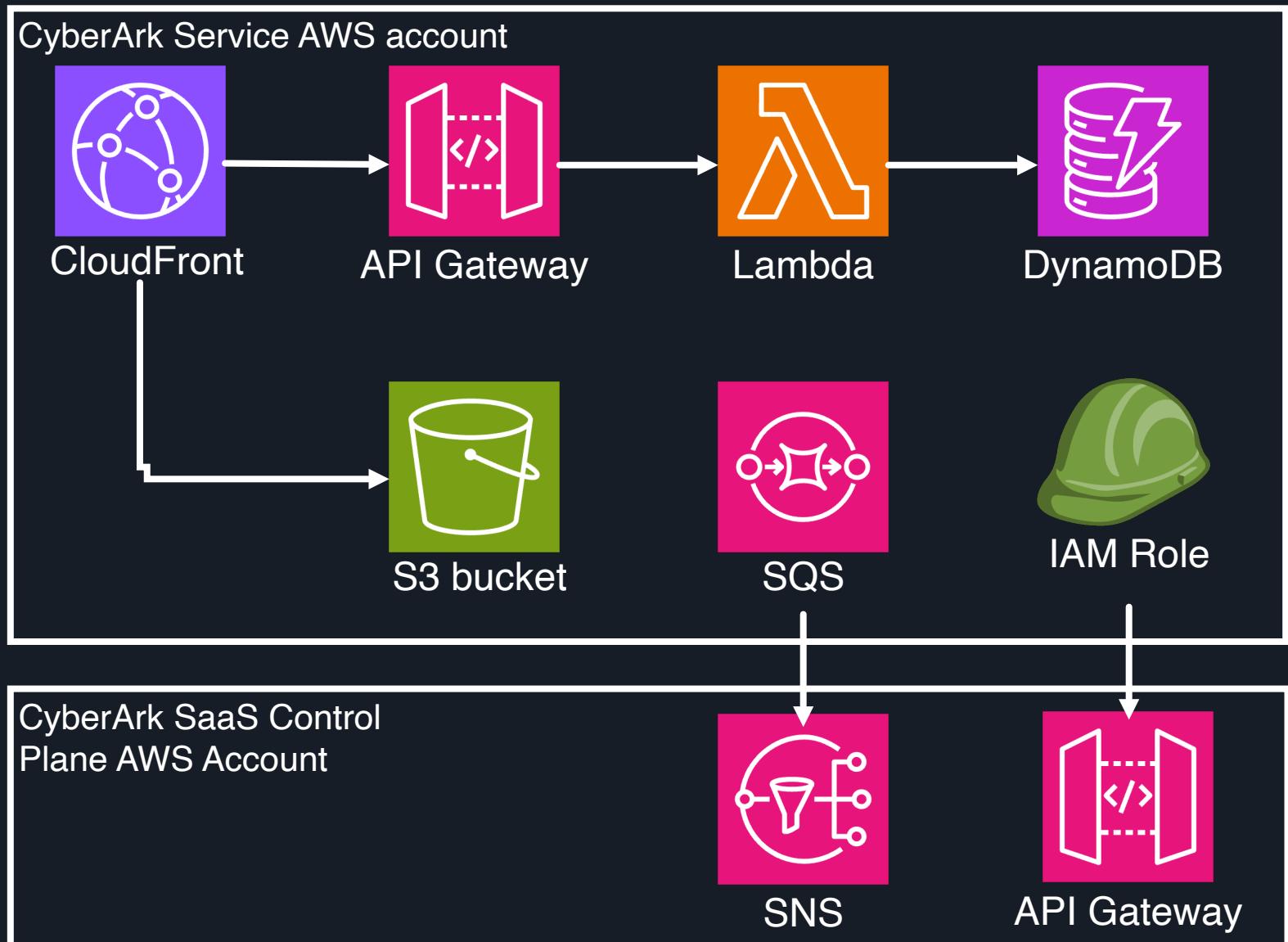
Telemetry

Challenges for a new enterprise-grade SaaS Service



Integrating with the SaaS Control Plane

- Tenant management integration
- Subdomain registration (hostname, certificate)
- Cross account access (role delegation, topic registration)



Enterprise-grade is complex!



- One microservice is **NOT** enough
 - We need multiple microservices
 - **Integration** with other SaaS components
 - **Deploy** to **multiple** AWS accounts & regions
 - **Adhere** to serverless and enterprise best-practices

Enterprise-grade “Hello World” Saas Service



BEFORE

5+ months

AFTER

3 hours

Serverless Platform Engineering

Automation DevEx



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Let's Build a “One Click” SaaS Serverless Service

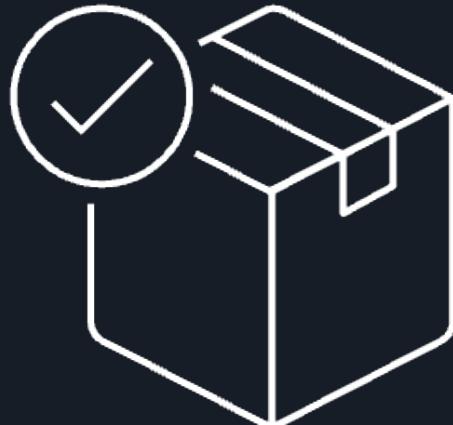
CRUD API

BEST
PRACTICE
S

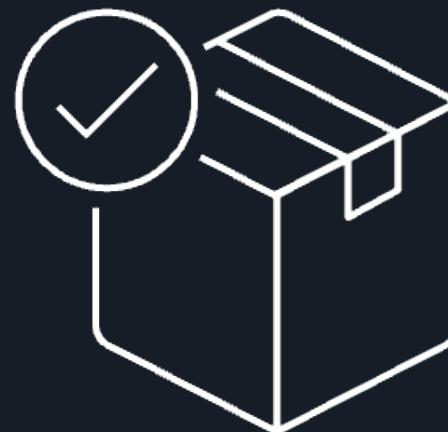
FRONTEN
D

CYBERAR
K UNIFIED
UI

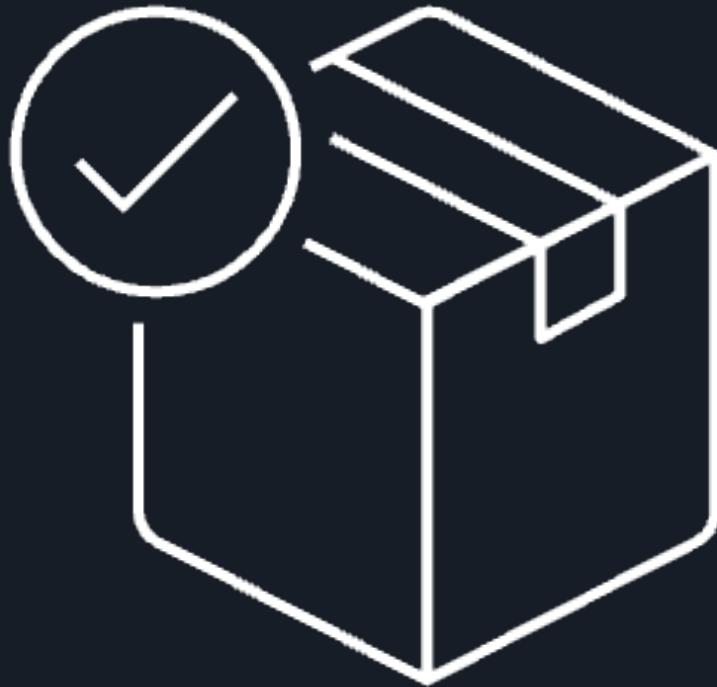
SAAS
CONTROL
PLANE



Let's Build a “One Click” SaaS Serverless Service



Let's Build a “One Click” SaaS Serverless Service



It all Starts with the Developer Portal

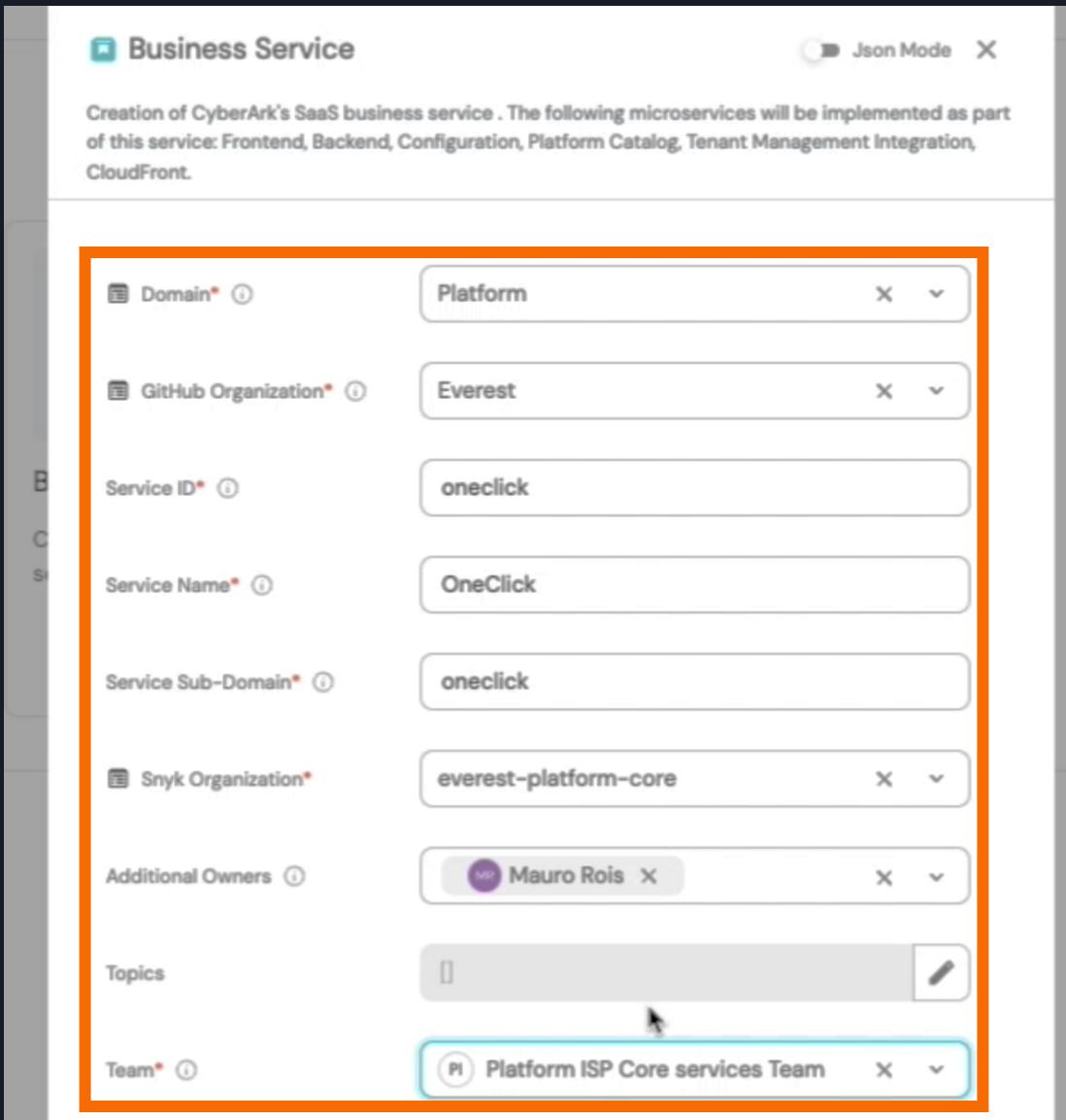
The screenshot shows the CyberArk Self-Service Hub interface. At the top, there is a navigation bar with the CyberArk logo, Home, Catalog, and Self-service tabs. Below the navigation bar, the title "Self-Service Hub" is displayed next to a lightning bolt icon. A search bar is present below the title. The main content area is titled "Create Actions" and contains three project creation options:

- GitHub Repo & Seed Pipelines**: Scratch Project including a standard protected GitHub repository with Jenkins... [Create](#)
- GitHub Repo & Pipelines**: Create a project from scratch or from an existing template. The project contains... [Create](#)
- Business Service**: Creation of CyberArk's SaaS business service . The following microservices will b... [Create](#)

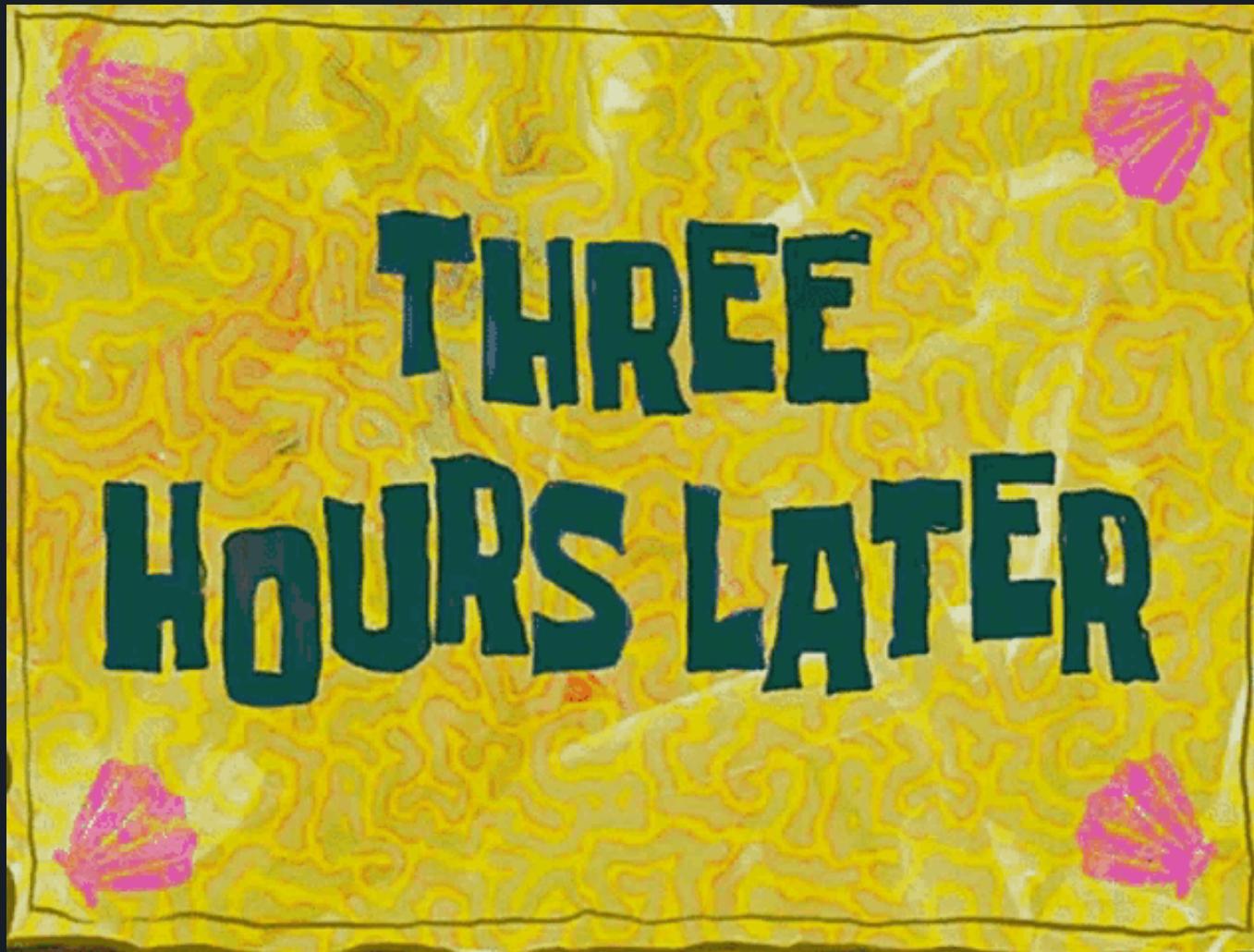
The "Business Service" card is highlighted with a thick orange border.



It all Starts with the Developer Portal



It all Starts with the Developer Portal



New components and integrations provisioned

Component	Owner	Language	Status
oneclick-backend	Platform ISP Core services Team	Python	A
oneclick-cloud-front	Platform ISP Core services Team	Python	A
oneclick-configuration	Platform ISP Core services Team	Python	B
oneclick-frontend	Platform ISP Core services Team	TypeScript	A
oneclick-platform-catalog	Platform ISP Core services Team	Python	A
oneclick-tenant-management	Platform ISP Core services Team	Python	B

New service deployed to production, UI included

The screenshot shows a web application interface with the following structure:

- Header:** CYBERARK
- Left Sidebar:** One Click (highlighted with an orange border)
- Content Area:**
 - Title:** Oneclick (FF Enabled)
 - Table:** Displays 4 items with the following data:

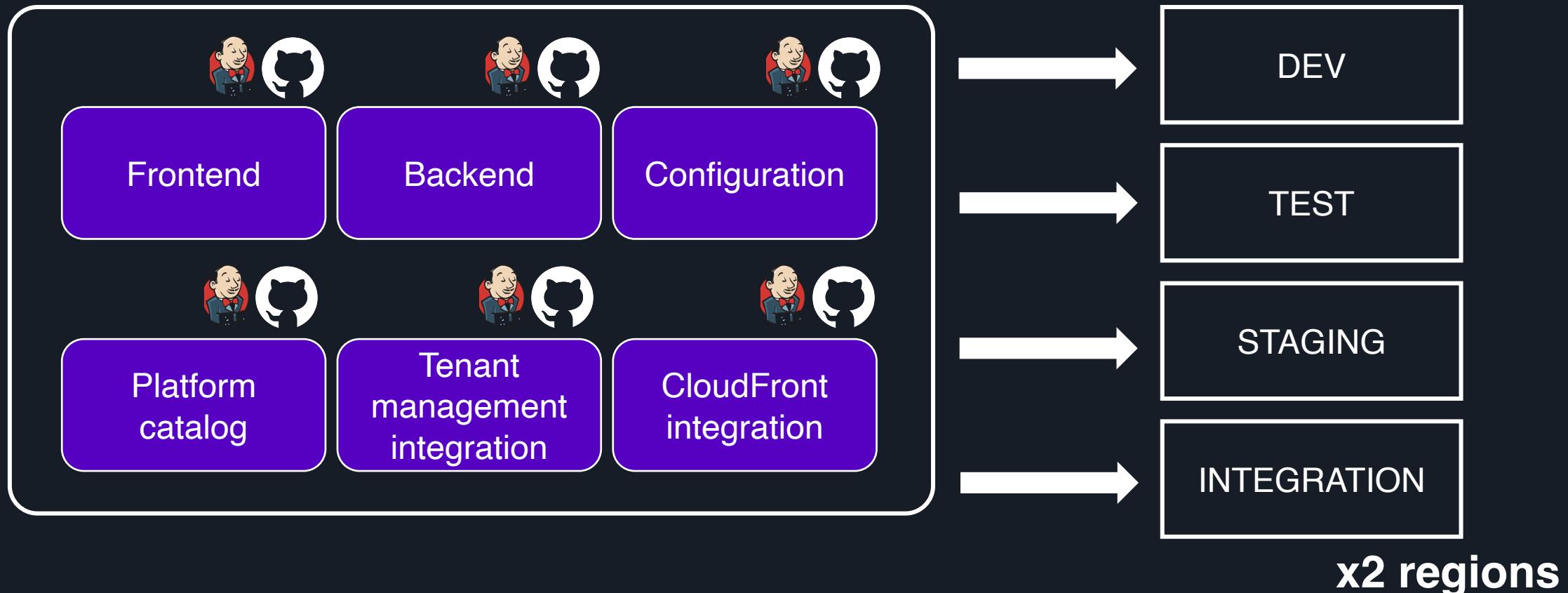
Name	Created At	Updated At	Entry Type
Cloa-Zero	Jul 31, 2024 01:43:45 PM	Jul 31, 2024 01:43:45 PM	Soft-Drinks
Coca-Cola	Jul 31, 2024 01:43:45 PM	Jul 31, 2024 01:43:45 PM	Soft-Drinks
Fanta	Jul 31, 2024 01:43:45 PM	Jul 31, 2024 01:43:45 PM	Soft-Drinks
Pepsi	Jul 31, 2024 01:43:45 PM	Jul 31, 2024 01:43:45 PM	Soft-Drinks

An orange arrow points from the 'Entry Type' column of the last row to a pink icon of three coins with a lightning bolt.



What did we see?

6 blueprints. Best practices, security, observability, tooling baked-in.



Go and build value!

Focus on business domain instead of undifferentiated heavy lifting



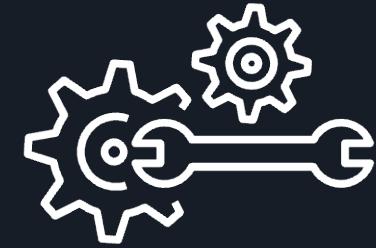
Automation DevEx Tips



Simple to use, with
minimal prerequisites



**Retry-able, customize-
able, ability to clean-up
failures.**



**Ongoing
maintenance, "fake
services" runs**

Architectural Bluprints

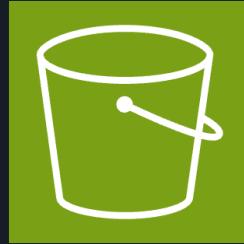


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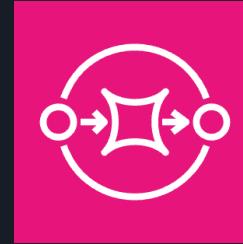
Architectural Bluprints Examples



Lambda with dynamic provisioned concurrency



Secure S3 bucket



SQS Queue with DLQ and redrive



KMS with CMK



Tenant aware Idempotency table



WAF ACL association

Secure S3 Bucket CDK Construct

```
1 from aws_cdk import RemovalPolicy
2 from aws_cdk import aws_s3 as s3
3 from constructs import Construct
4
5 class SecureBucket(Construct):
6     def __init__(self, scope, identifier, bucket_name, is_versioned):
7         super().__init__(scope, identifier)
8         production_env = ...
9         self.bucket = s3.Bucket(
10             self,
11             id=f'{identifier}Bucket',
12             bucket_name=bucket_name,
13             enforce_ssl=True,
14             removal_policy=RemovalPolicy.RETAIN if production_env else RemovalPolicy.DESTROY,
15             auto_delete_objects=False if production_env else True,
16             block_public_access=s3.BlockPublicAccess.BLOCK_ALL,
17             encryption=s3.BucketEncryption.S3_MANAGED,
18             versioned=is_versioned)
```

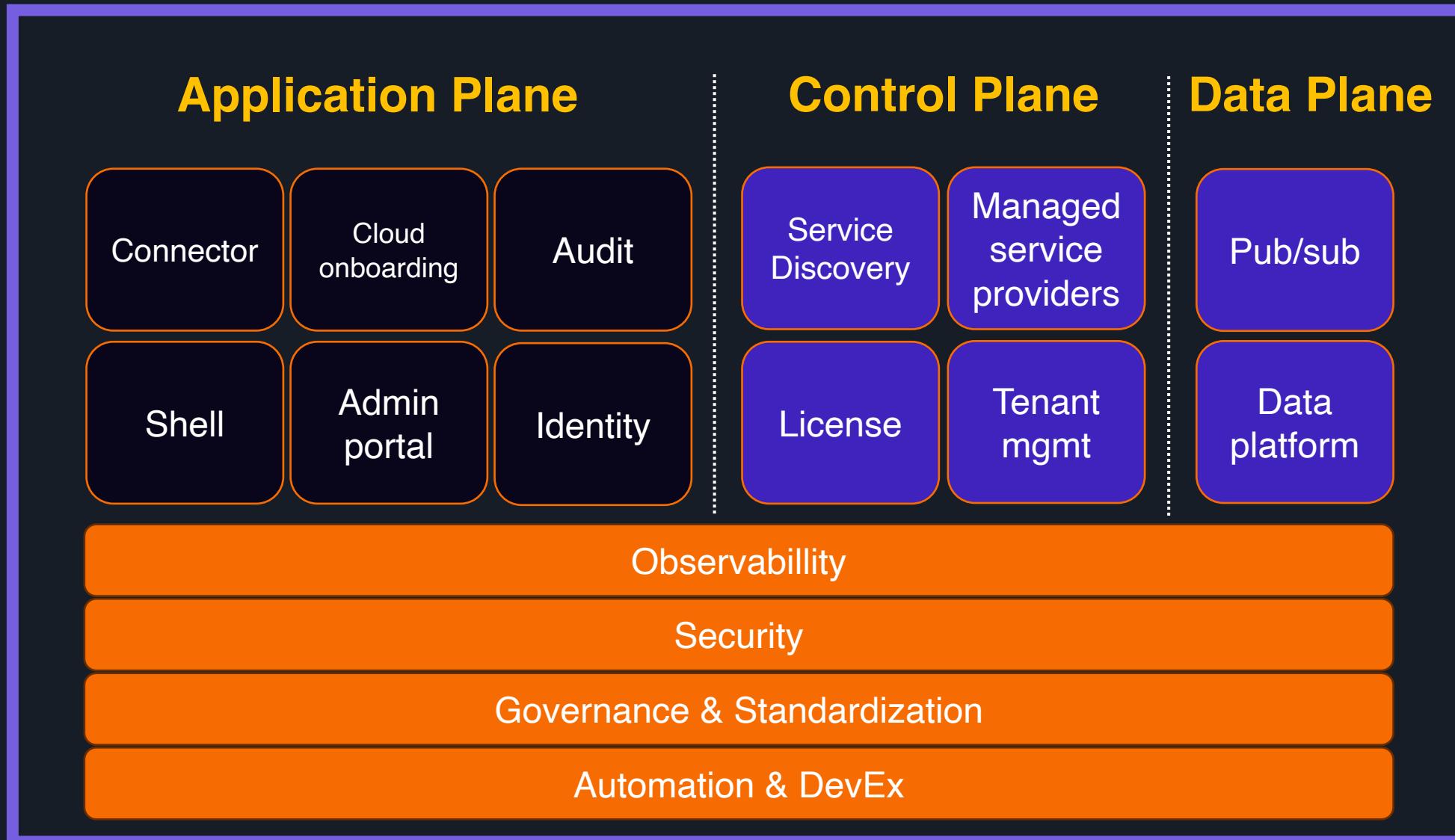


Your products are evolving

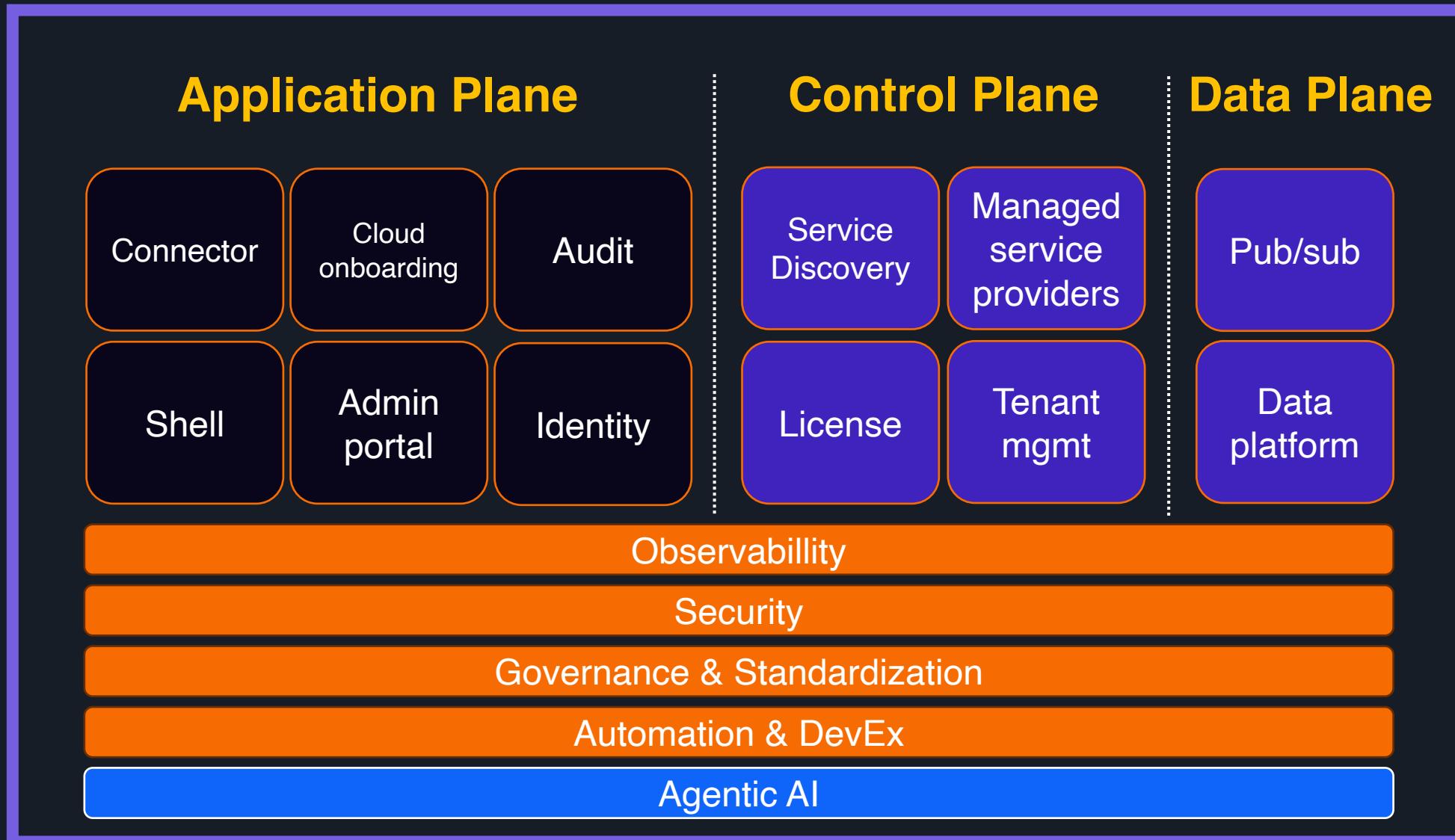


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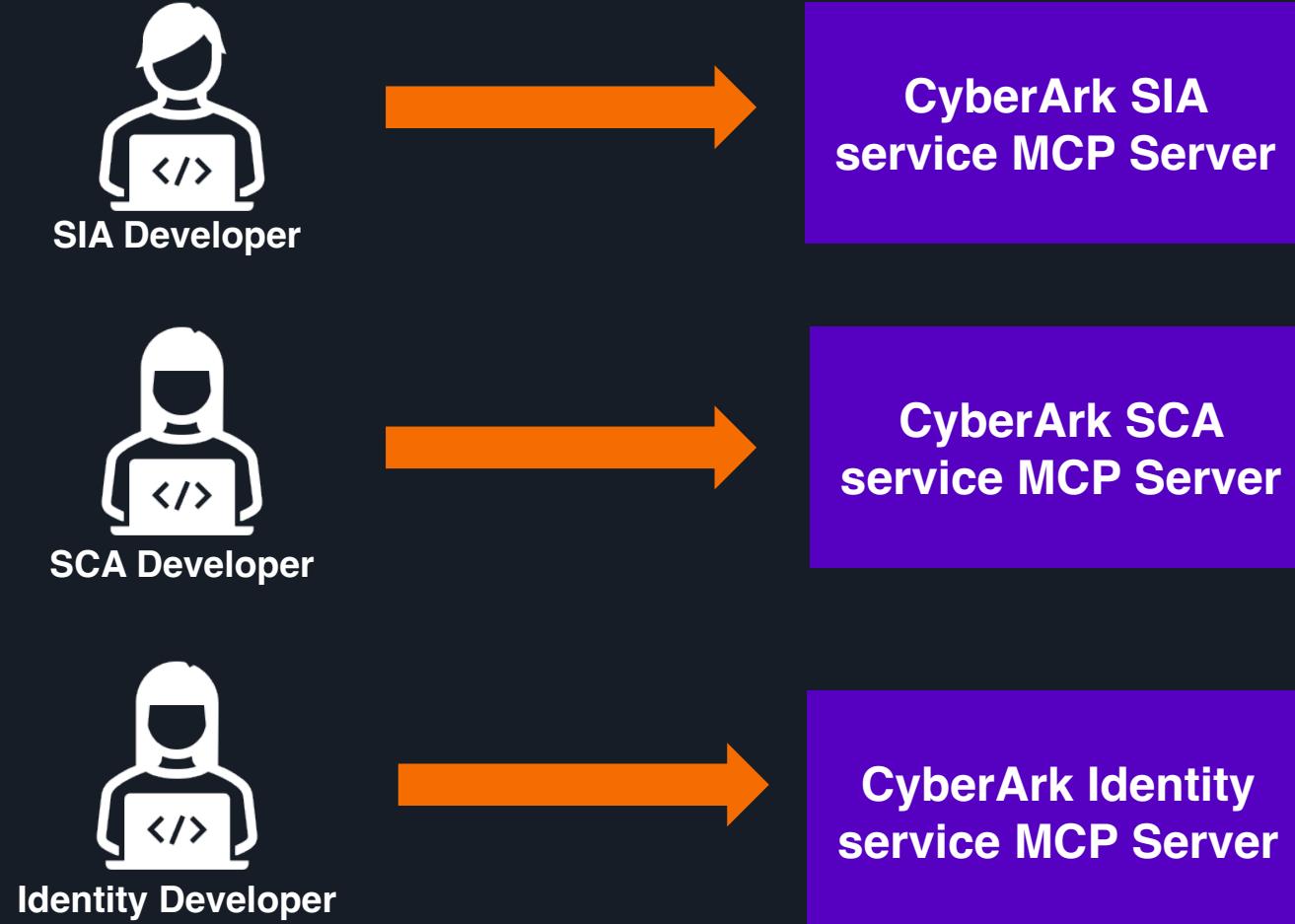
Platform Engineering: SaaS Products Overview



Platform Engineering: SaaS Products Overview



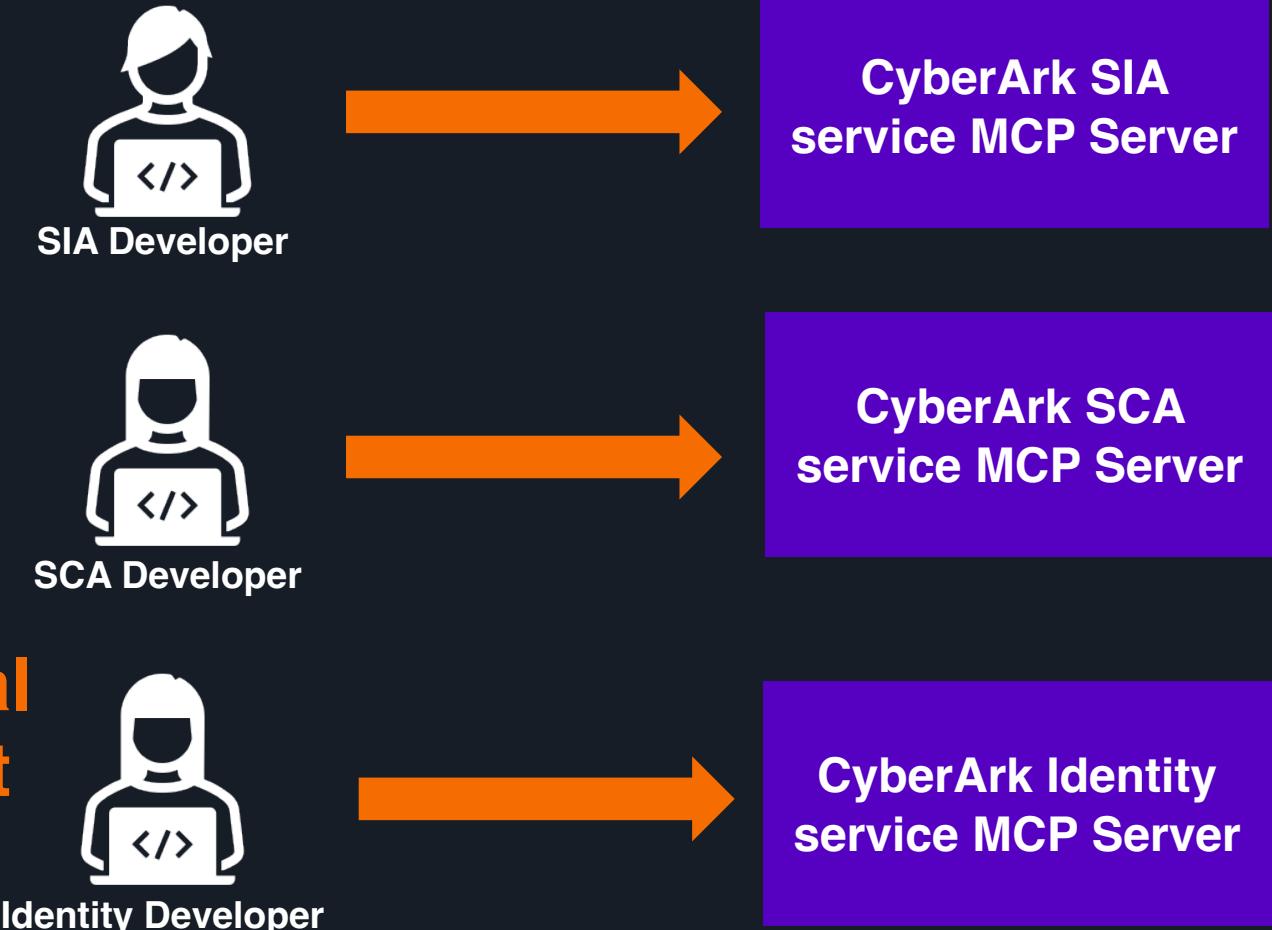
Building MCP Servers at scale can be challenging



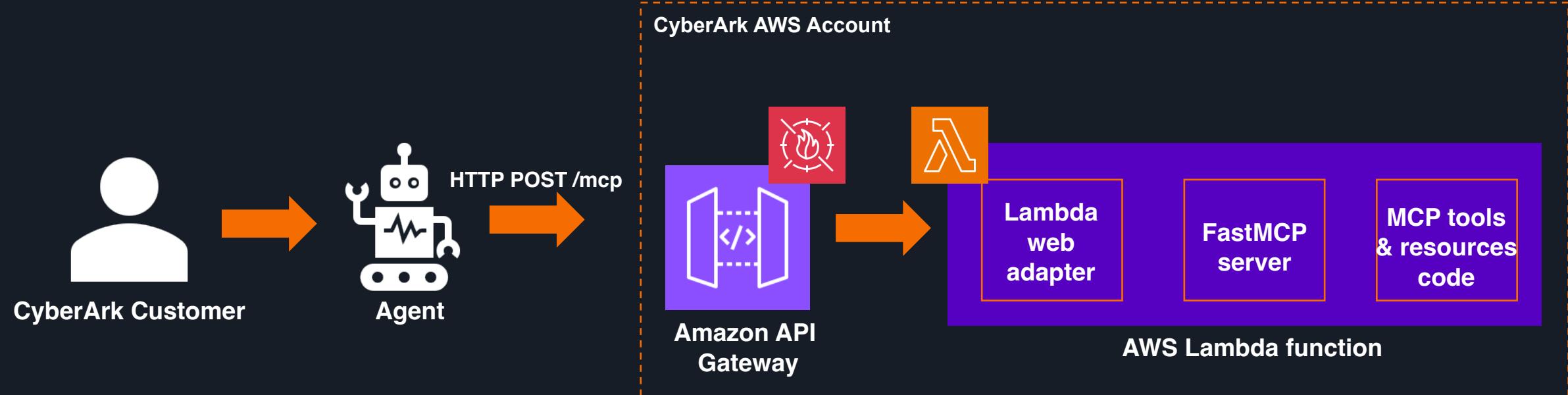
Building MCP Servers at scale can be challenging

- Teams “**reinventing the wheel**”

- Authentication & authorization
 - CDK IaC
 - CI/CD pipeline
 - Testing with MCP client
 - Observability



Platform Engineering and MCP Blueprints



IaC

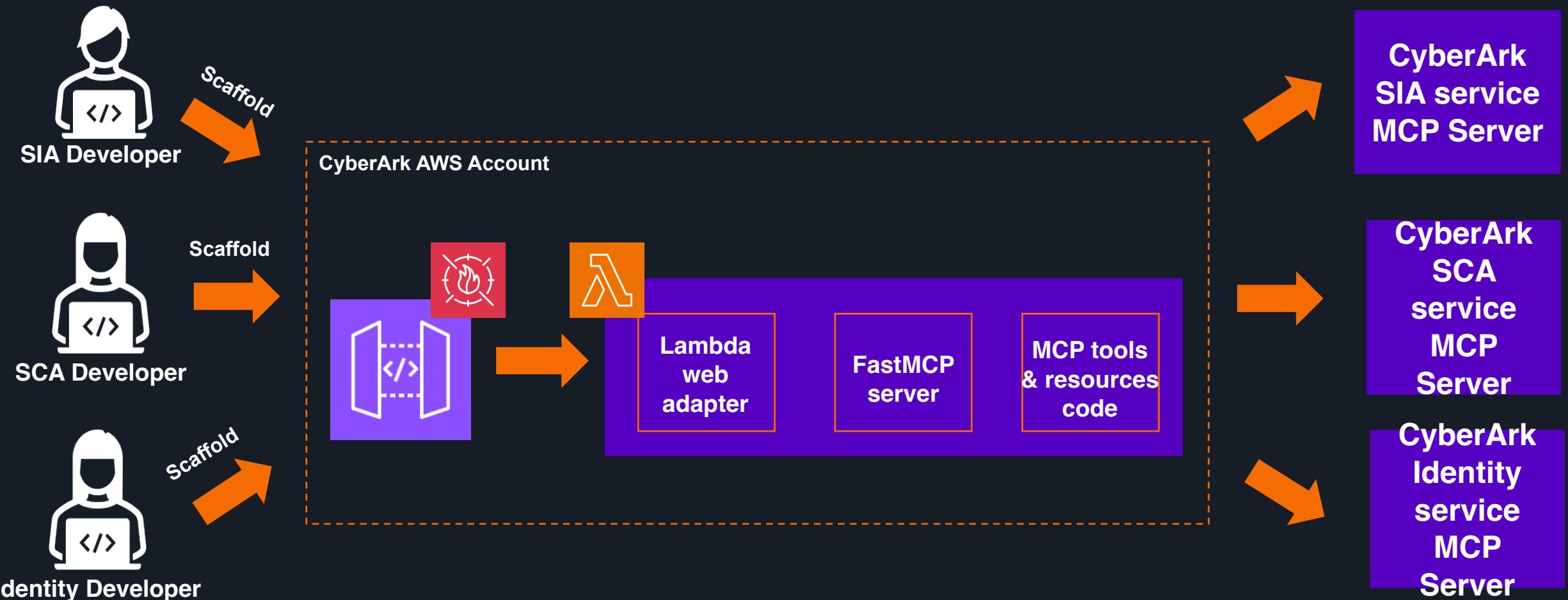
CI/CD
pipeline

Security
best
practices

Testing

Observability

Platform Engineering and MCP Blueprints



In conclusion



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A wide-angle photograph of a volcanic eruption at sunset. A massive, dark plume of smoke and ash rises from the ocean, illuminated from behind by the setting sun. In the foreground, a bright, white plume of steam and smoke billows out from where molten lava is entering the water. The sky is a deep orange and yellow, transitioning to darker blues and purples at the top.

Don't boil the ocean

A dark, slightly blurred photograph showing a row of clothes hangers. The hooks of the hangers are facing the viewer, and each hook has a small, color-coded cylindrical tag attached to it. The tags are labeled with garment sizes: 'S' (Small), 'M' (Medium), 'L' (Large), 'XL' (Extra Large), and 'XXL' (Double Extra Large). The colors of the tags correspond to the size: green for S, orange for M, light blue for L, yellow for XL, and red for XXL.

One size doesn't fit all workloads



Documentation and education are key

A man with a beard and a blue plaid shirt stands on the left, gesturing with his hands as if speaking. A woman with long brown hair and a yellow cable-knit sweater stands on the right, also gesturing. They are positioned in front of a dark chalkboard. A large, empty speech bubble is drawn in white chalk above them, centered between their heads.

Build with your customers

Check out these other sessions

CNS206: Building Agentic AI Architectures with AWS Serverless

Monday (Dec 1) @ 10:00a – MGM 304 – Builders Session

CNS403: Best practices for serverless developers

Tuesday (Dec 2) @ 12:00p – Mandalay Bay Islander F – Breakout Session

API309: Serverlesspresso: Build an event-driven application from the ground up

Thursday (Dec 4) @ 12:00p – MGM Grand 120 - Workshop



Serverless & Applnt Resources



<https://s12d.com/RIV2025>

Continue your AWS serverless learning
PowerTools for AWS Lambda
Serverless Land patterns

Serverless Patterns Collection
Build integrations using infrastructure as code with [serverless patterns](#)

941 PATTERNS

The diagram displays three examples of serverless patterns:

- WAF to CloudFront to S3**: Shows a flow from AWS WAF to CloudFront, which then points to an S3 bucket.
- Amazon API Gateway WebSocket**: Shows a flow from AWS WAF to Amazon CloudFront, then to Amazon API Gateway, and finally to AWS Lambda.
- Lambda function with X-Ray**: Shows a flow from X-Ray to AWS Lambda.

[View Pattern →](#) [View Pattern →](#) [View Pattern →](#)





Thank You!

Anton Aleksandrov



antonal80

aal80.github.io/whoami

Ran Isenberg



ranbuilder



ranthebuilder.cloud



This session's content
and much more

Please complete the session
survey in the mobile app