

The background features a dark purple gradient on the left, transitioning into a vibrant, multi-colored geometric design on the right. This design consists of large, overlapping triangular and quadrilateral shapes in shades of magenta, blue, and orange, separated by thin white lines.

AWS re:Invent

DECEMBER 1 - 5, 2025 | LAS VEGAS, NV

CNS361

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



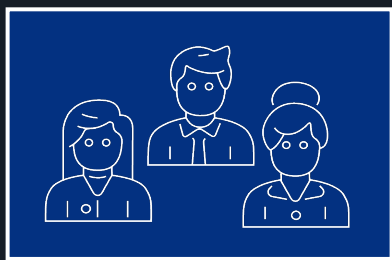
**Application
development team**



Infrastructure/ops team

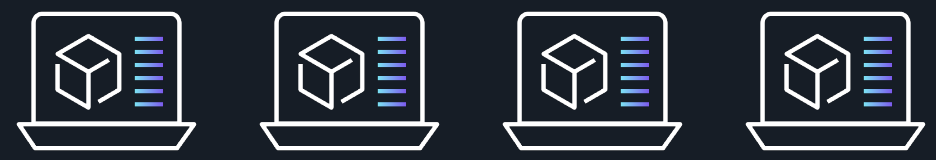
The operational model evolution

We ❤️ DevOps



Application development team
CI/CD tools and processes

The Application Layer



The Infrastructure Layer

			
Amazon EC2	Amazon S3	Amazon EBS	Amazon Route 53
			
Amazon EMR	Amazon RDS	ElastiCache	Amazon SNS

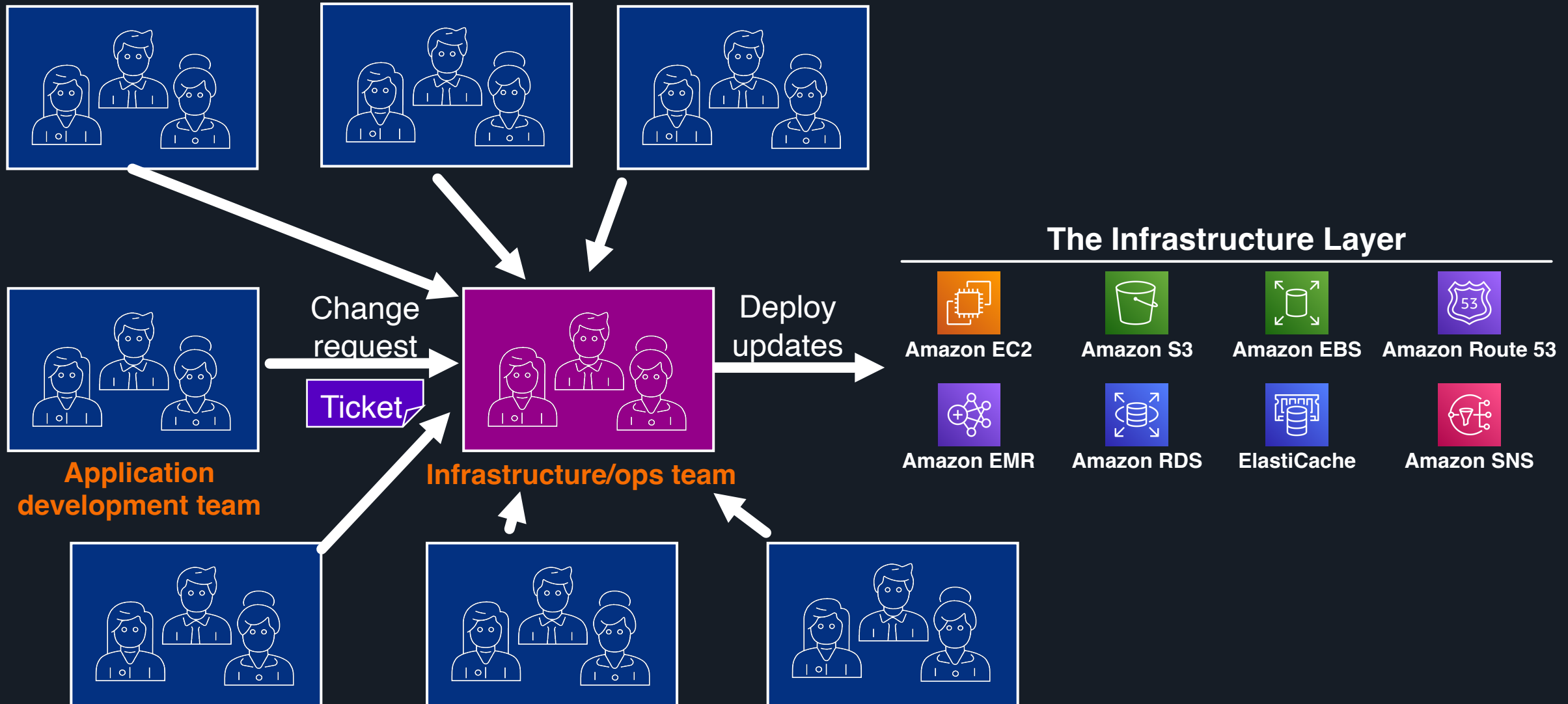
IaC tools and processes



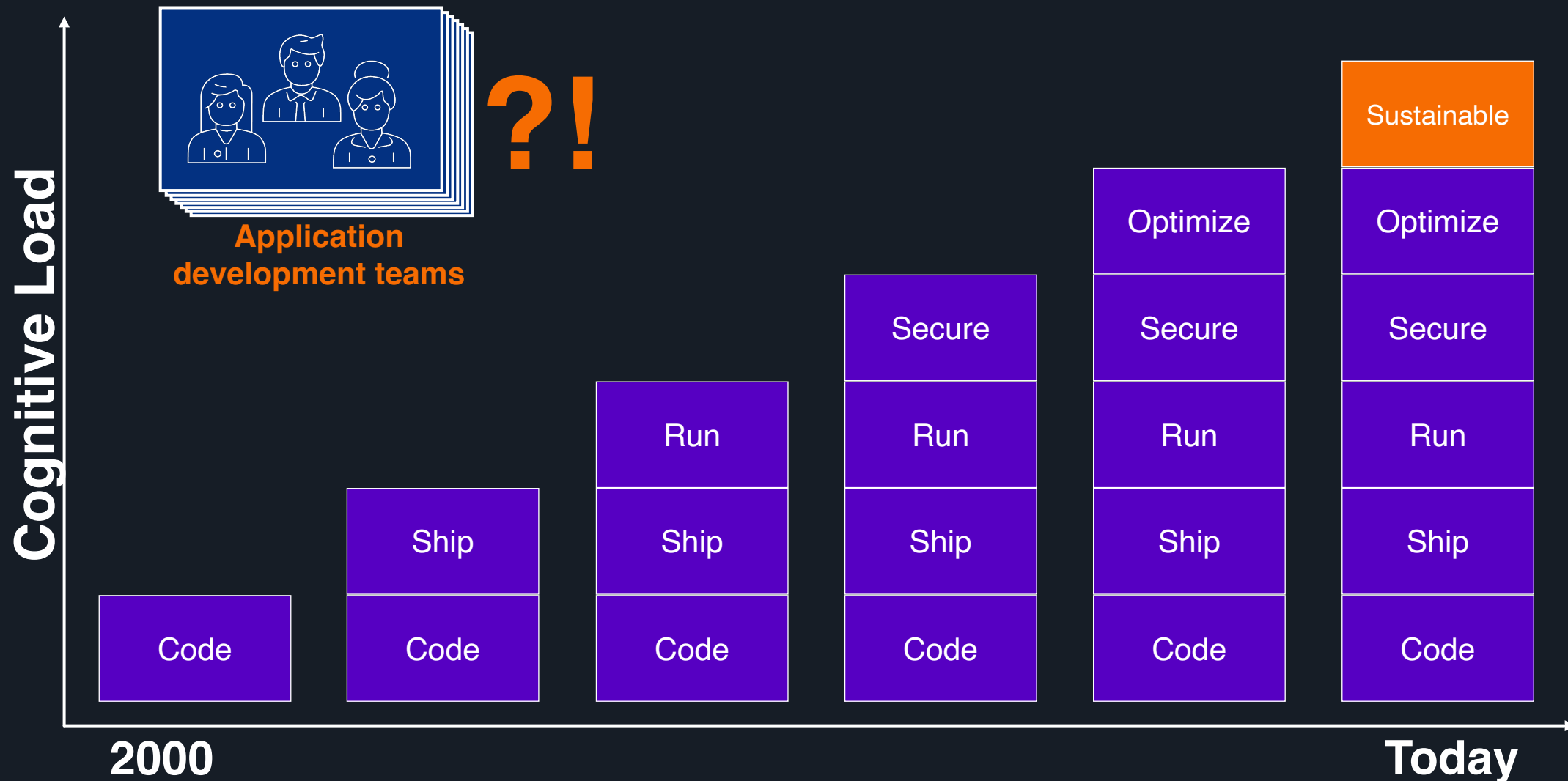
Infrastructure/ops team



The operational model evolution



Shift-left to the rescue?



Why Serverless



Reduced operational overhead



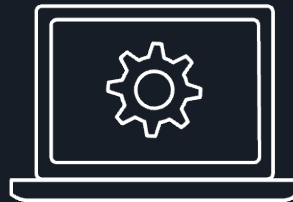
Improved availability and scalability



Improved security posture



Native integrations



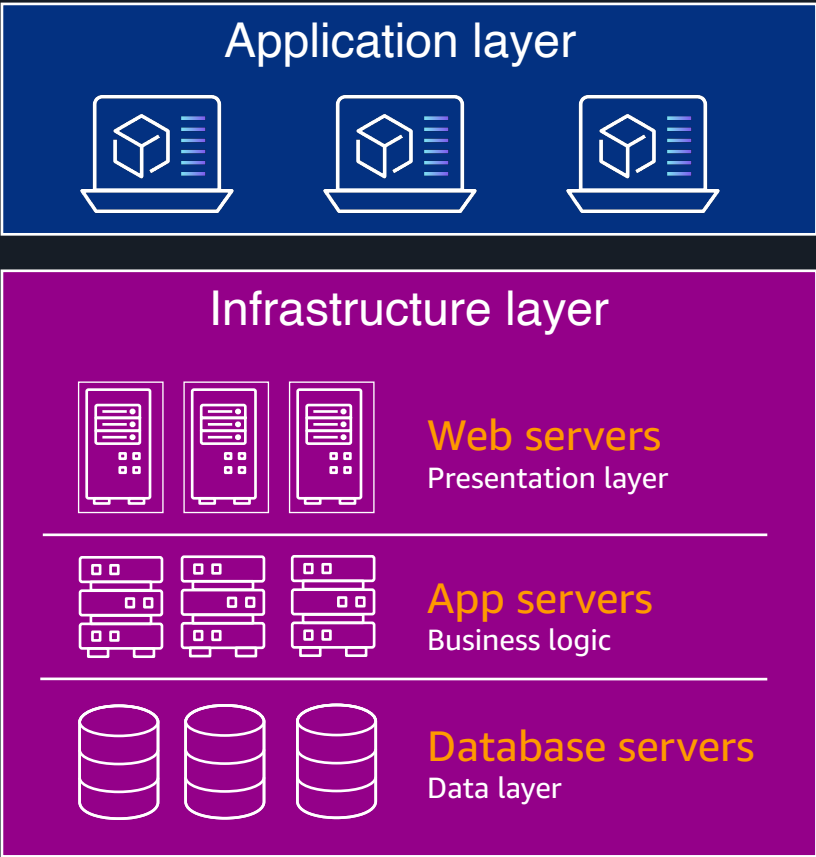
Flexible compute choice



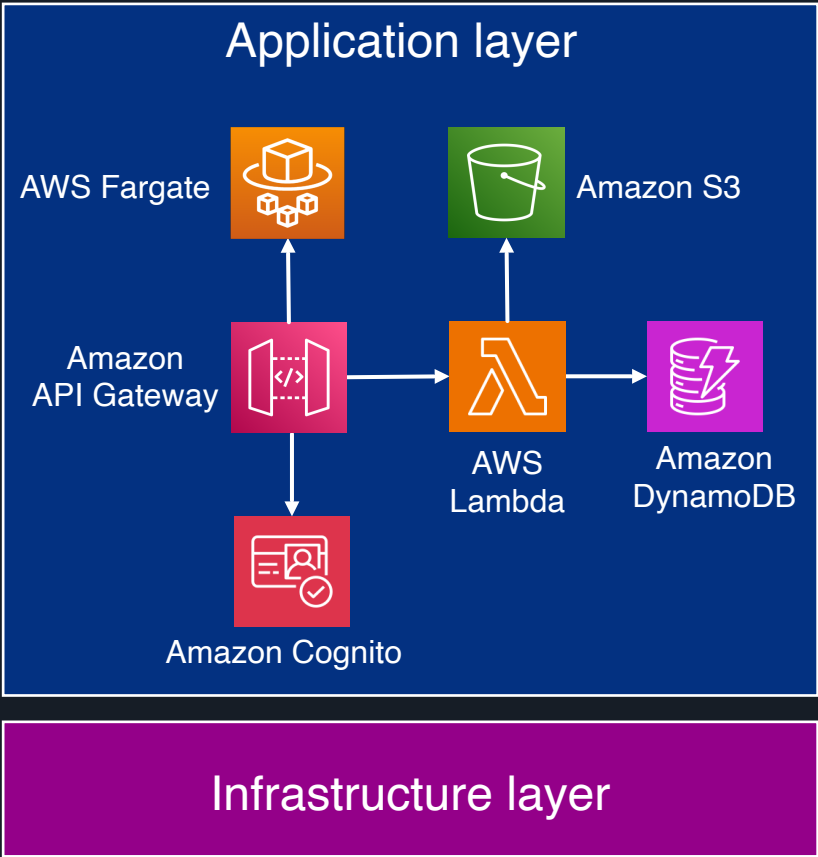
Accelerated application delivery

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



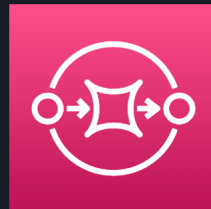
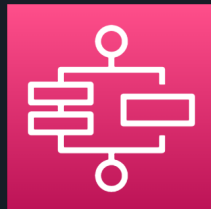
**Application
development teams**

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

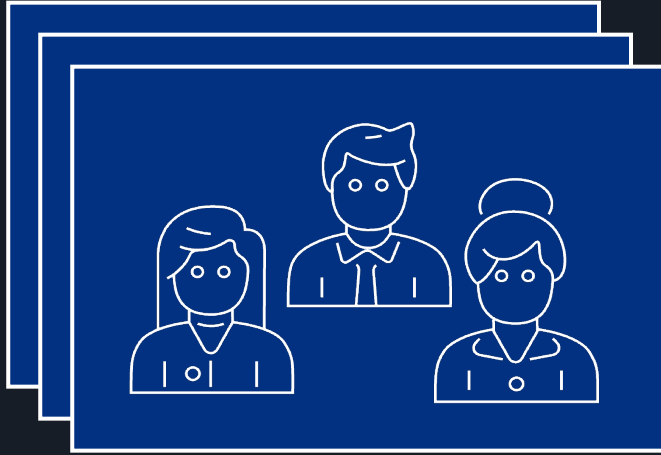
Standardization! Security!
Governance! Observability!
Cost efficiency!



Infrastructure/ops team



Striking the balance



AppDev teams



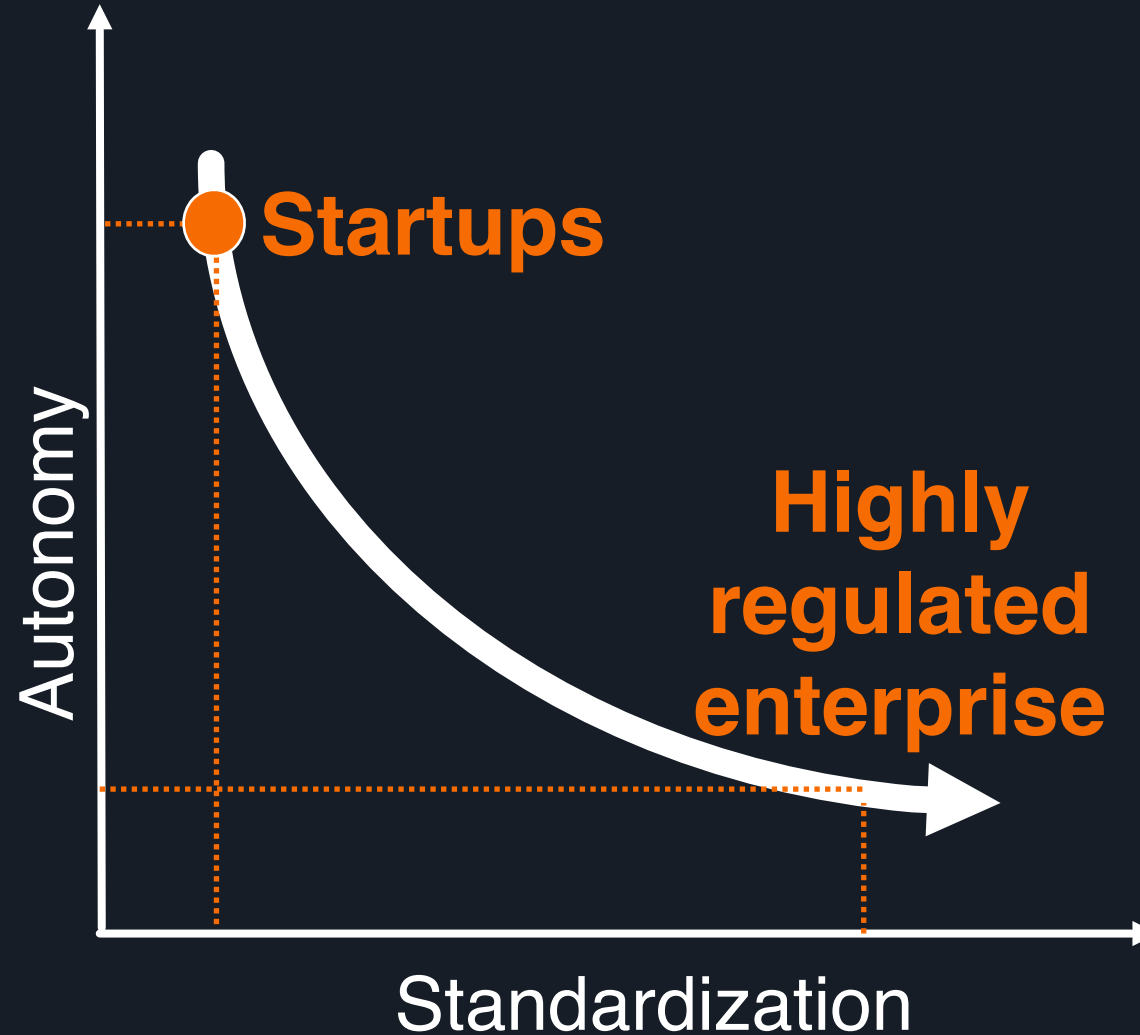
Infra/ops team

Autonomy



Standardization

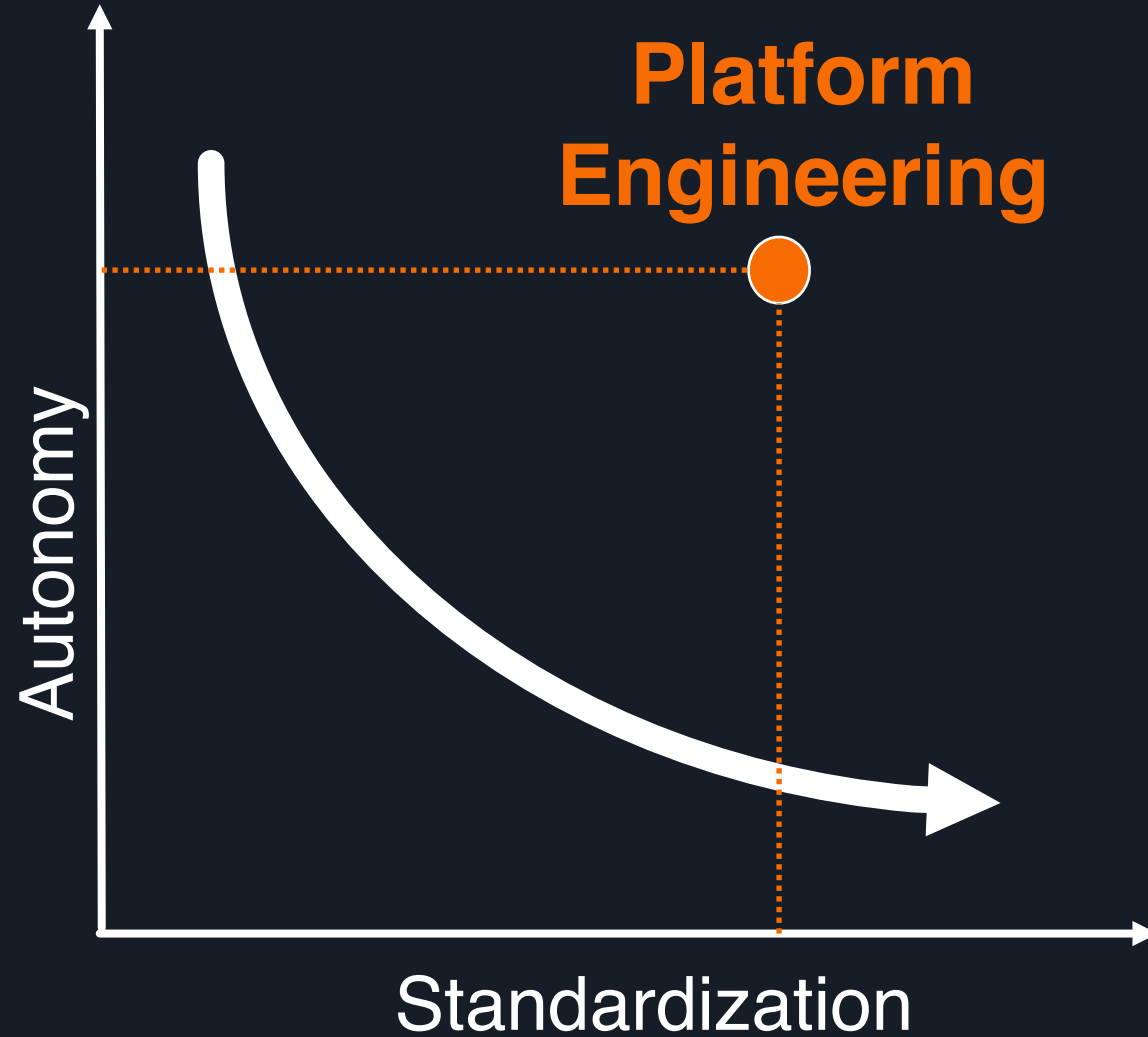
Striking the balance



Striking the balance



Striking the balance





CYBERARK®
THE IDENTITY SECURITY COMPANY®

“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”



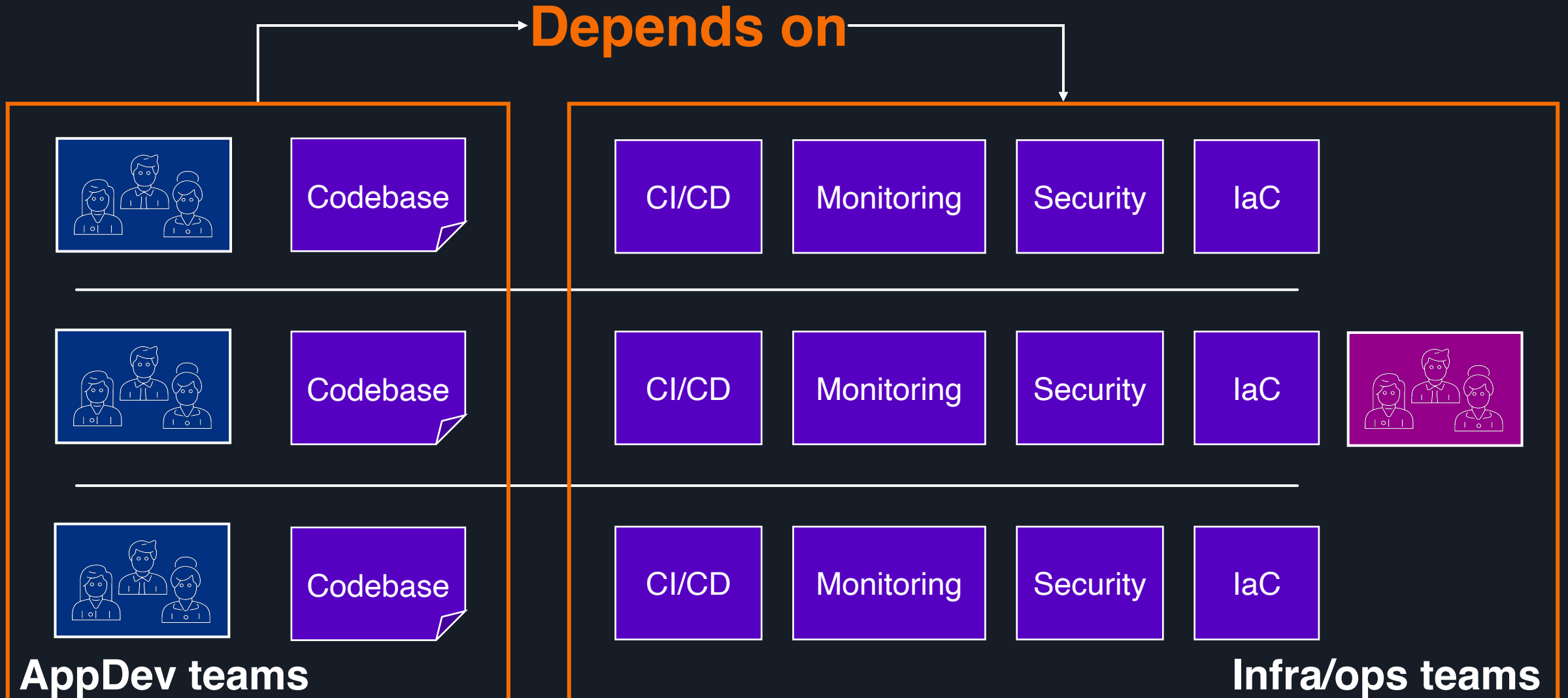
- Ran Isenberg, AWS Serverless Hero, Principal Architect, CyberArk Platform Engineering Division



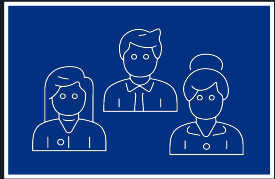
**Can you be a little
bit more specific?**



Traditional ownership boundaries



Shift-left without governance (aka wild west)



Codebase

CI/CD
(GitOps)

Monitoring
(CloudWatch)

Security
(Top
priority)

IaC
(Terraform)



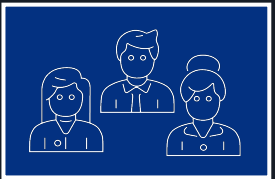
Codebase

CI/CD
(AIOps)

Monitoring
(Grafana)

Security
(Maybe
later)

IaC
(CDK)



Codebase

CI/CD
(ClickOps)

Monitoring
(console.log)

Security
(What?)

IaC
(Bash +
CLI)

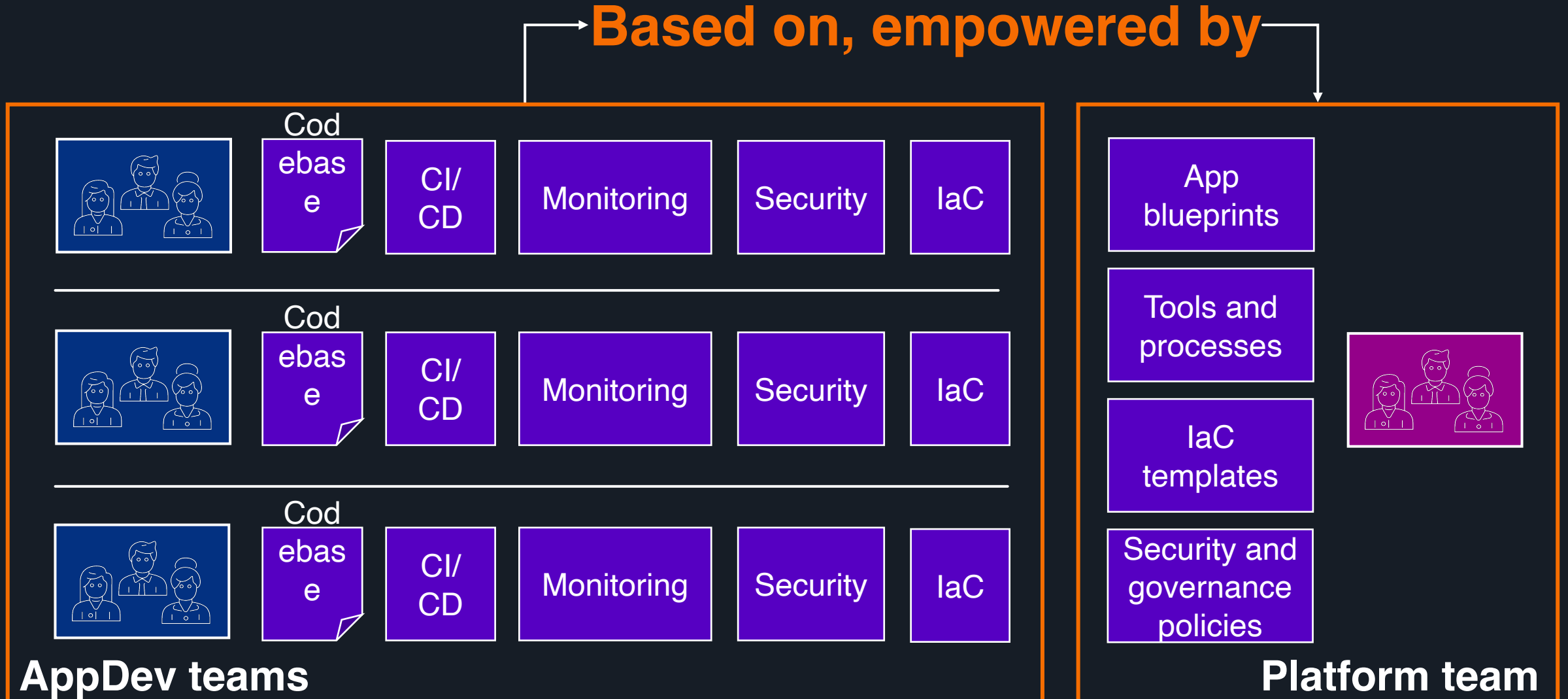
AppDev teams

?



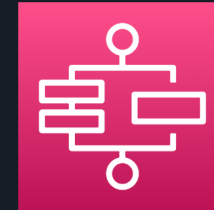
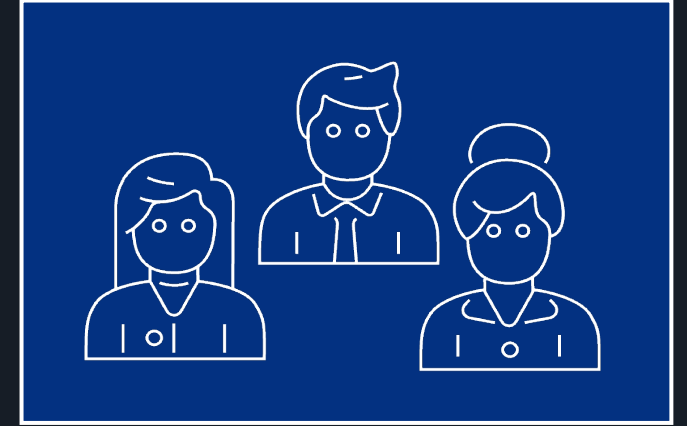
Infra/ops teams

Shift-left empowered by Platform Engineering



Building a Serverless dev platform in practice

**Define infrastructure and
application resources
ownership model, tools,
processes**



Internal Developer Platform

Partners


DATADOG




snyk

And many more ...

Dev Portal	 Service Catalog	 CNOE	 Backstage	 GitLab				
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	
 aws	Management API							
	Services							
								

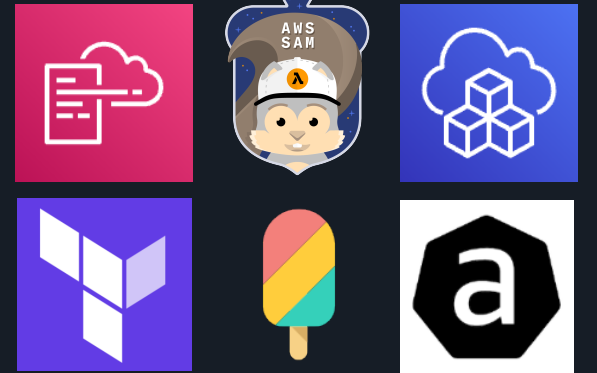
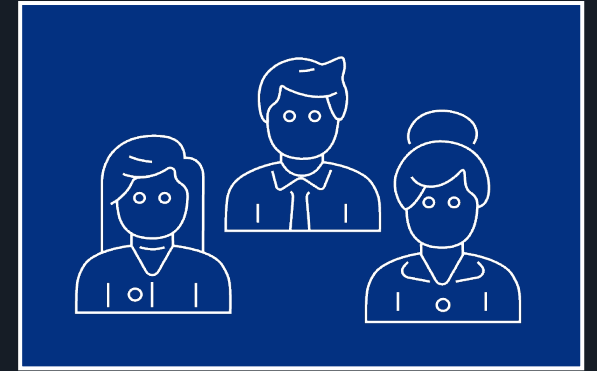
Blueprints

?



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" {
```

Cloud resources configuration (**main.tf**)

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

A Terraform Module

```
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  
    }  
  }  
}
```

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



Best Practices

Variables

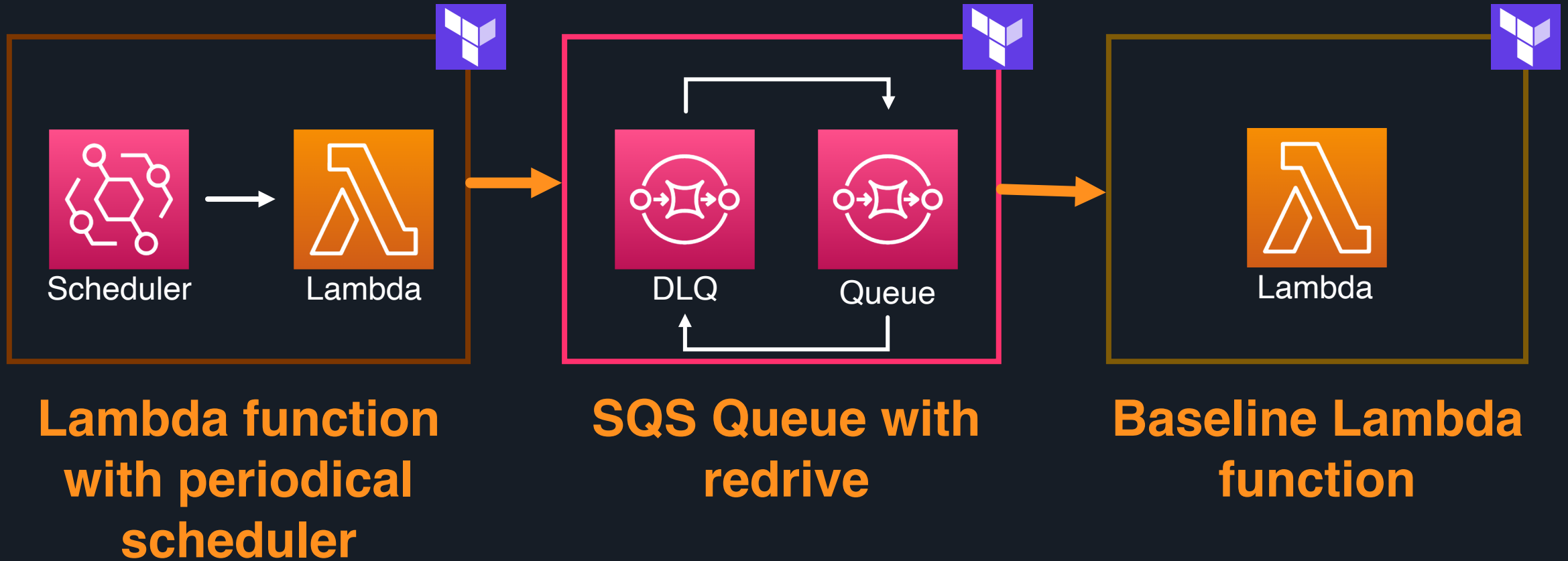
function_name
memory_size
source_path
runtime
handler
attach_vpc
log_retention_days
enable_furl
etc...



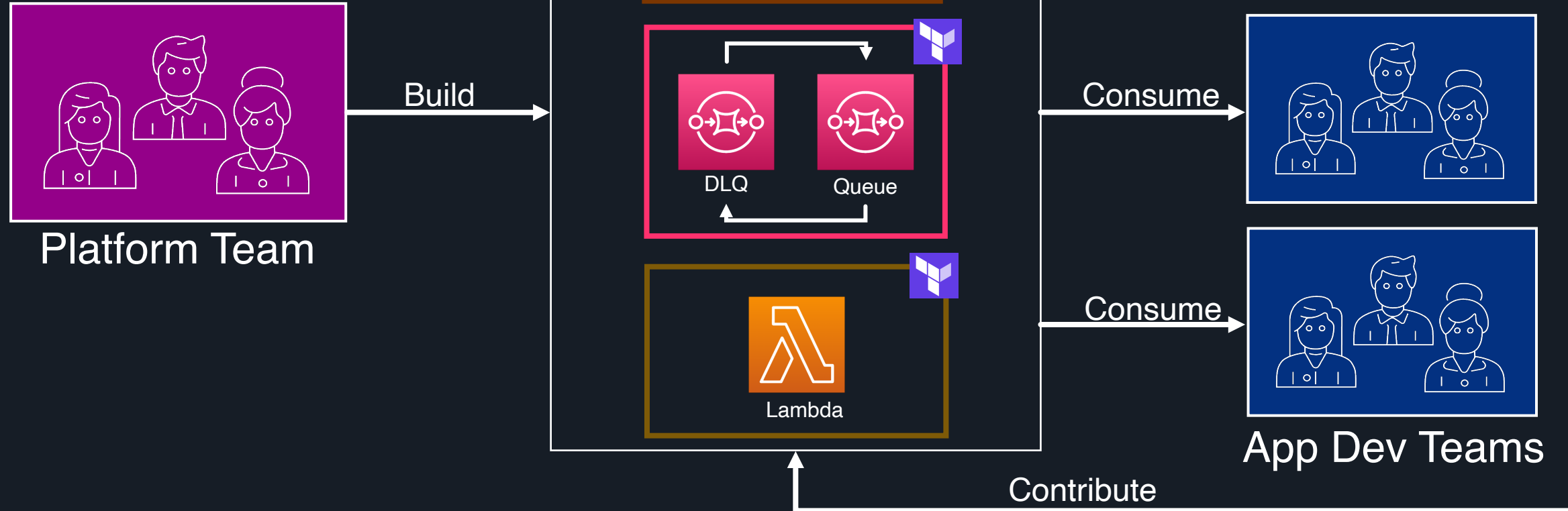
Outputs

function_arn
log_group_arn
function_url

Reusability and Composability



Reusability



Open-source / community projects



Serverless.tf



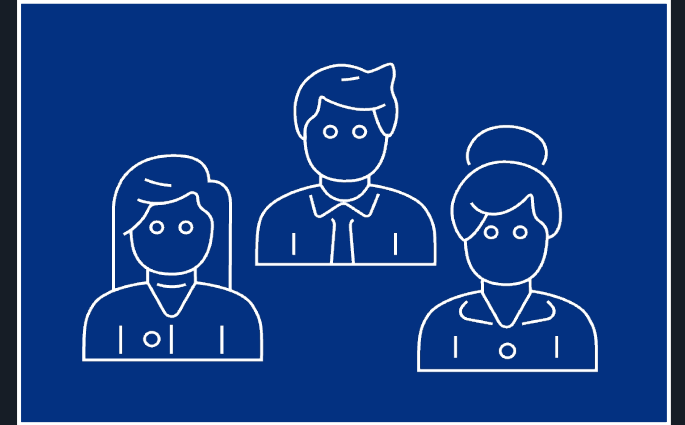
ConstructHub



**Awesome-serverless-
blueprints**

Building a Serverless dev platform in practice

**Build and evolve
architectural blueprints**

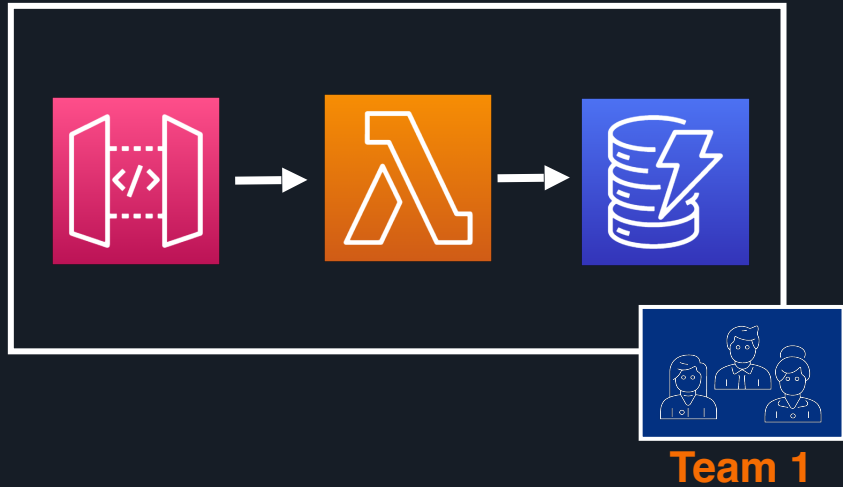


Architectural Patterns

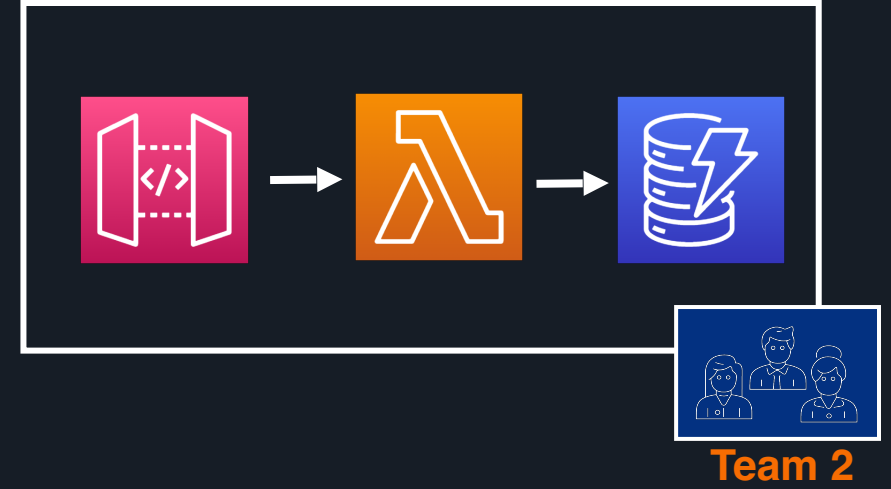


Identify usage trends

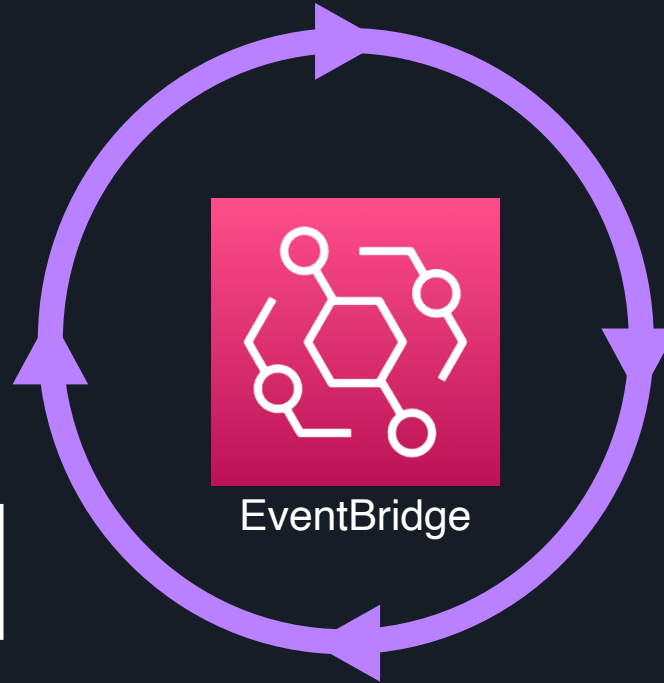
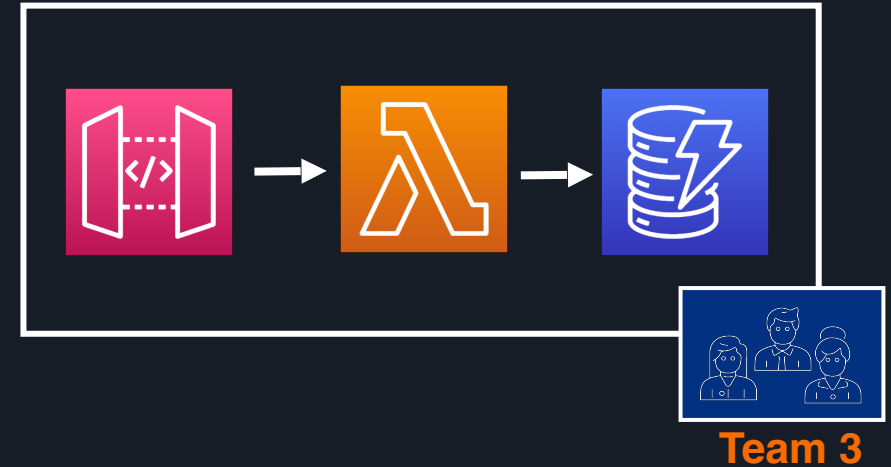
Business domain 1



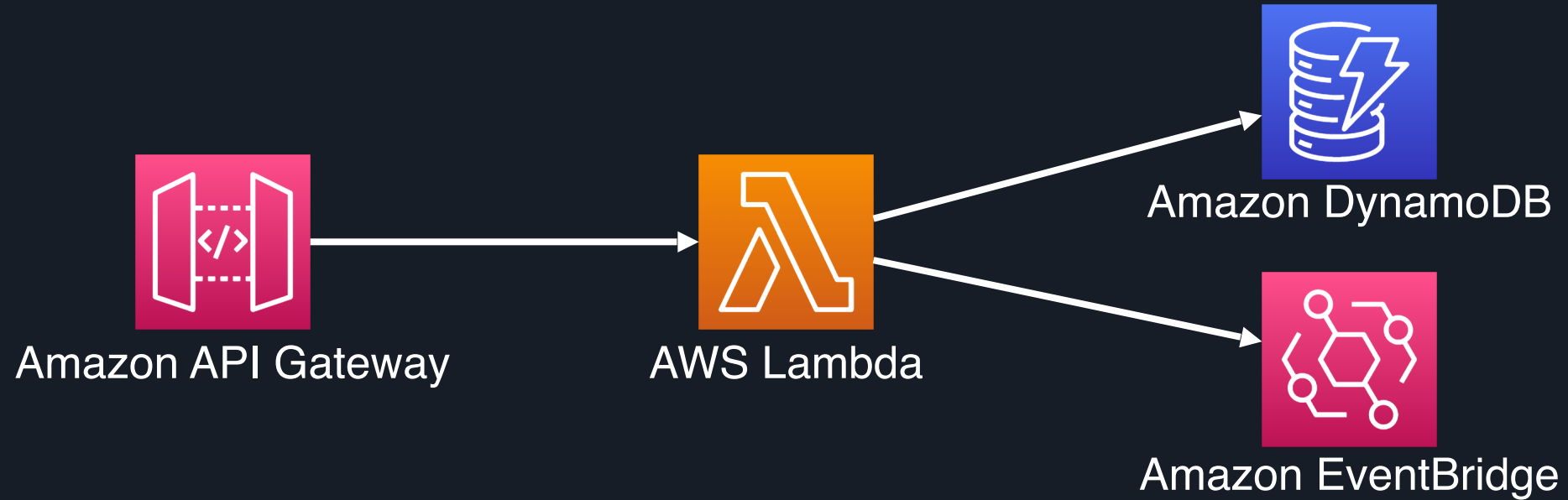
Business domain 2



Business domain 3



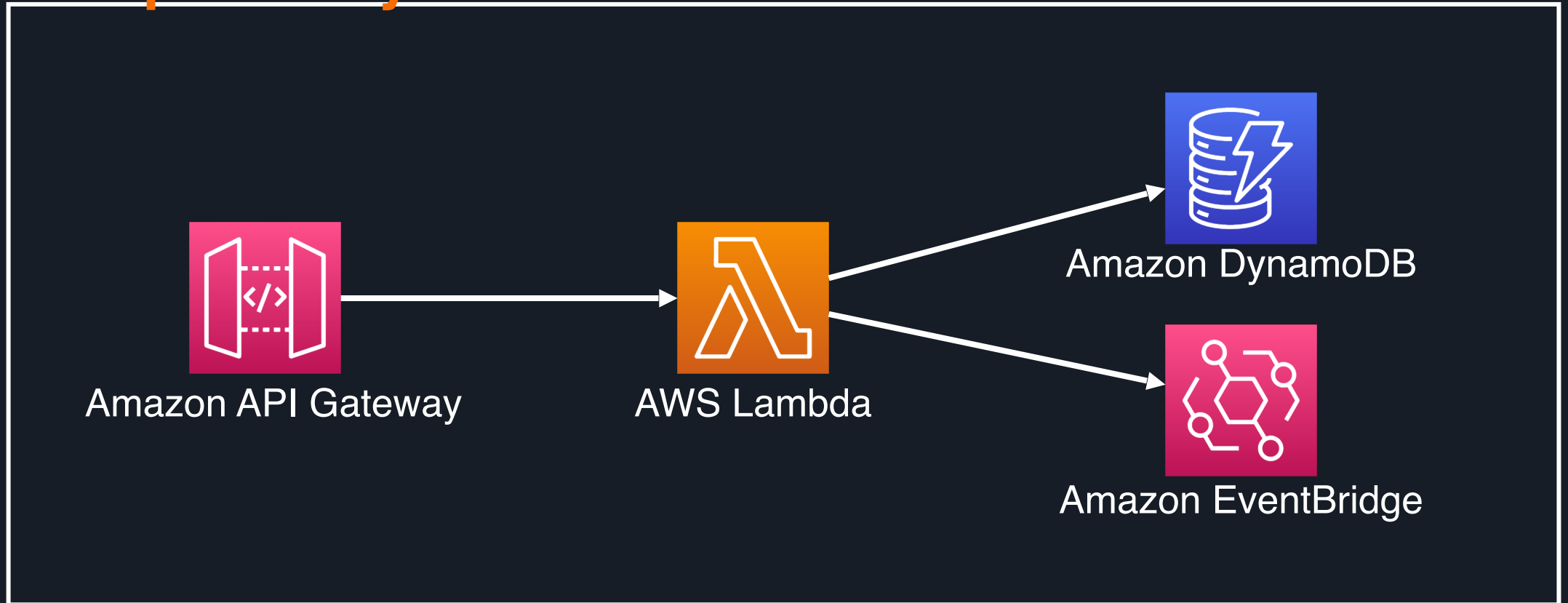
Bring it all together



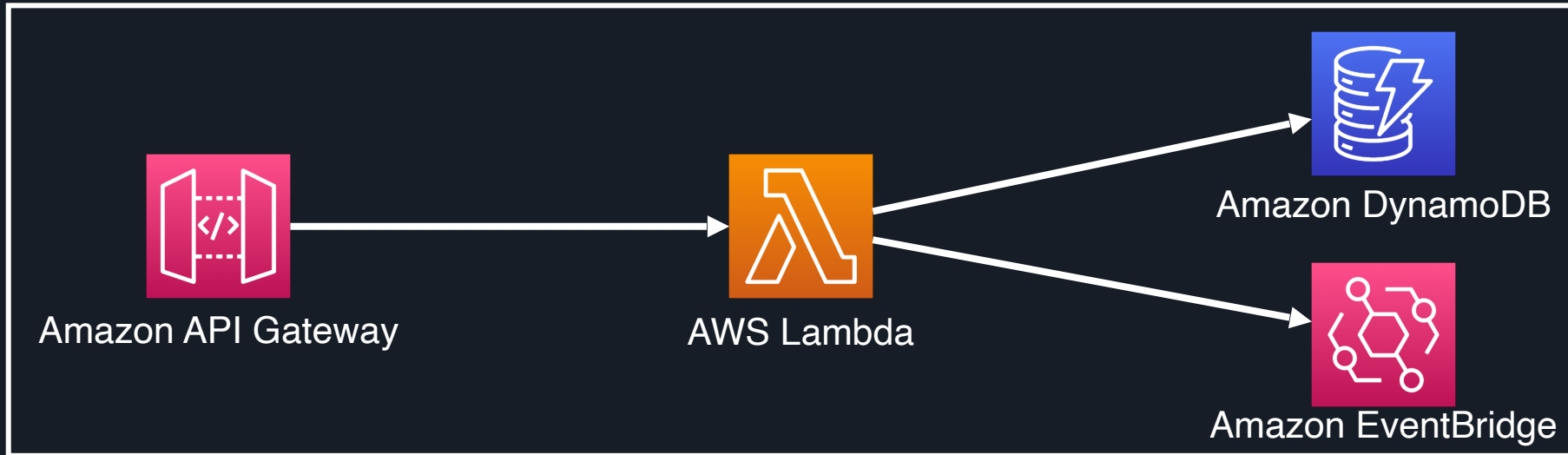
**Arrows are as important as
blocks**

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"
```

```
terraform > environments > production.tfvars >  
1 tag_environment = "production"  
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  
        }  
    }  
}
```

Serverless Blueprint - DynamoDB

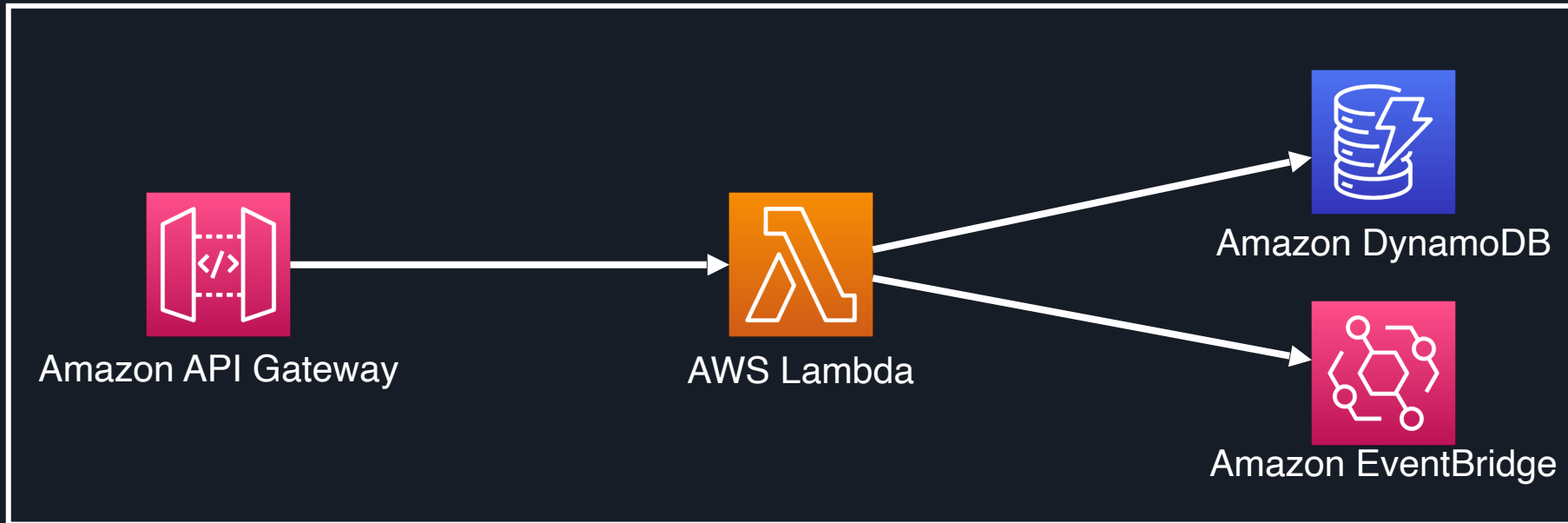
```
resource "aws_dynamodb_table" "data_table" {  
  name           = "${var.resource_name_prefix}-data-table"  
  billing_mode    = "PAY_PER_REQUEST"  
  
  point_in_time_recovery {  
    enabled = true  
  }  
  
  server_side_encryption {  
    enabled = true  
  }  
  
  ttl {  
    attribute_name = "TimeToLive"  
    enabled        = true  
  }  
}
```

Serverless Blueprint – Lambda + DynamoDB

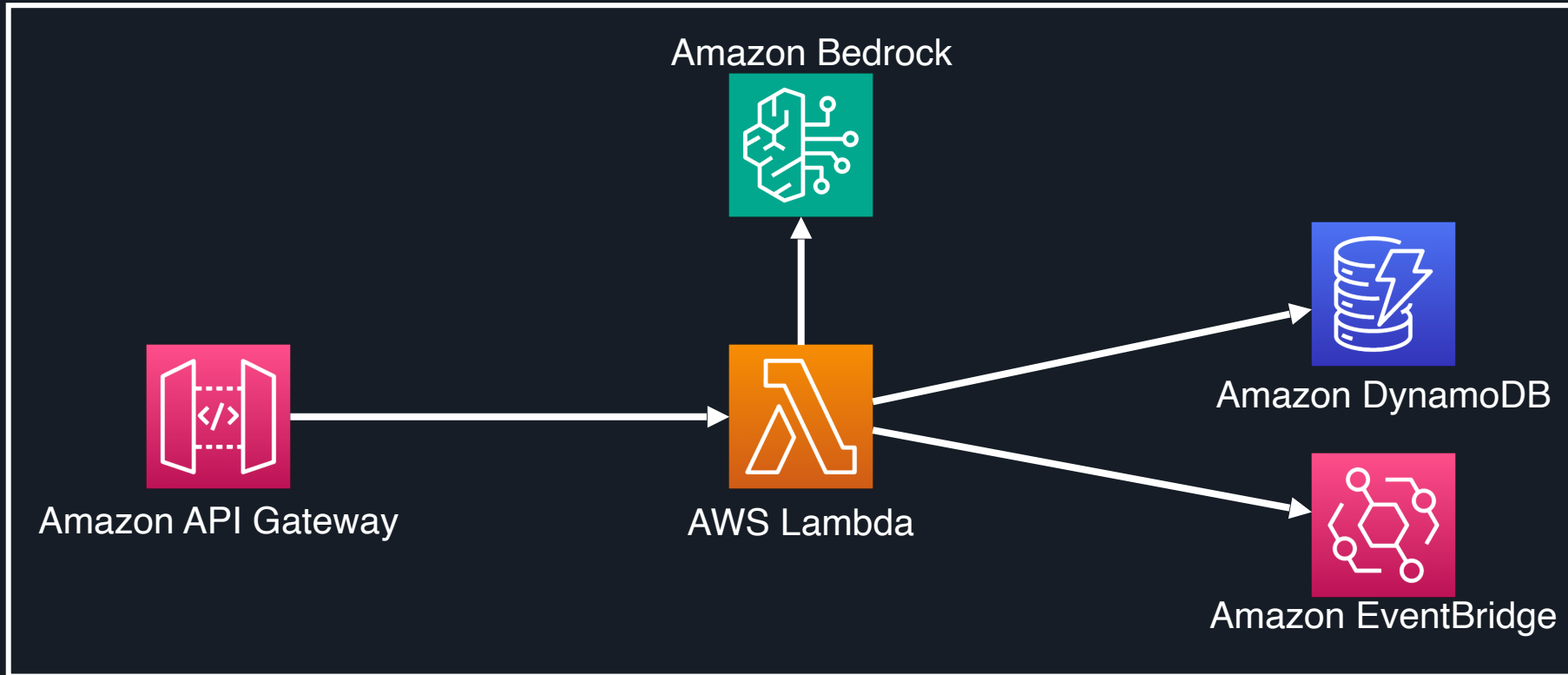
```
resource "aws_iam_policy" "lambda_ddb_data_table_access_policy" {
  name          = "${var.resource_name_prefix}-lambda-ddb-data-table-access-policy"
  description    = "Grants GetItem and PutItem access to DynamoDB data table"

  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

laC

```
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

A diagram illustrating the structure of a Function Blueprint. It consists of a large purple rectangle with a white border. Inside this rectangle is a smaller blue rectangle, also with a white border. The text "Handler (business domain code)" is centered within the blue rectangle.

Handler (business domain code)

Function Blueprints



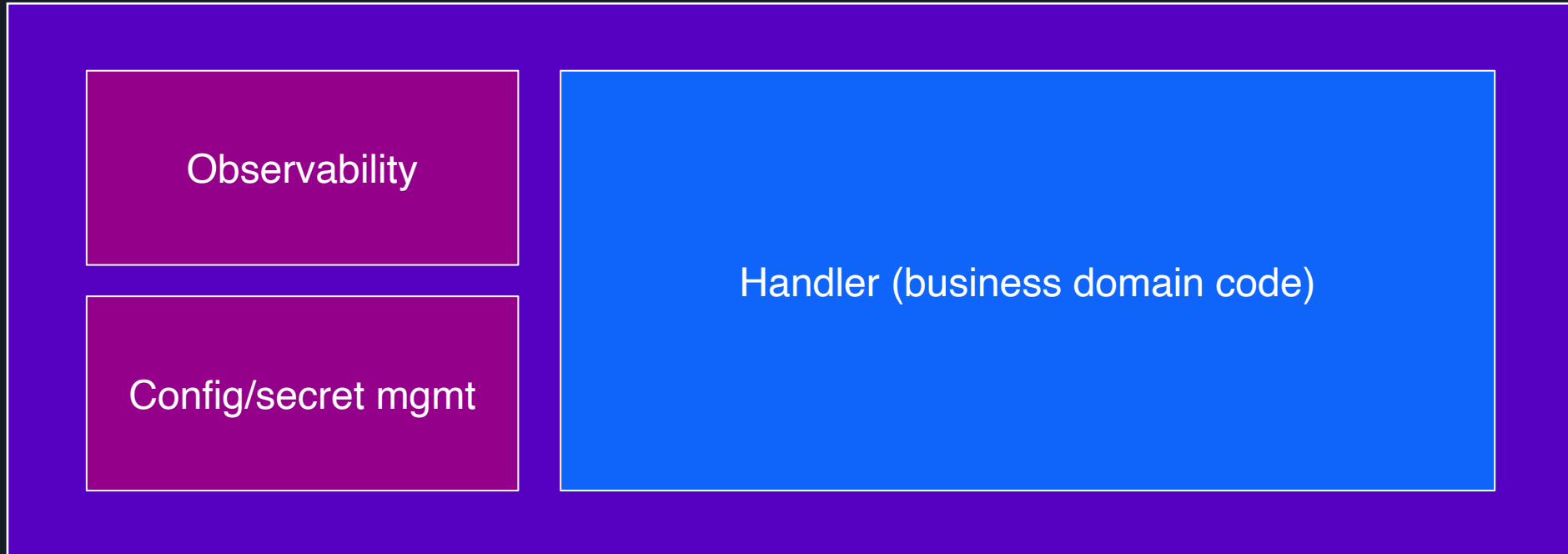
AWS Lambda



Function Blueprints



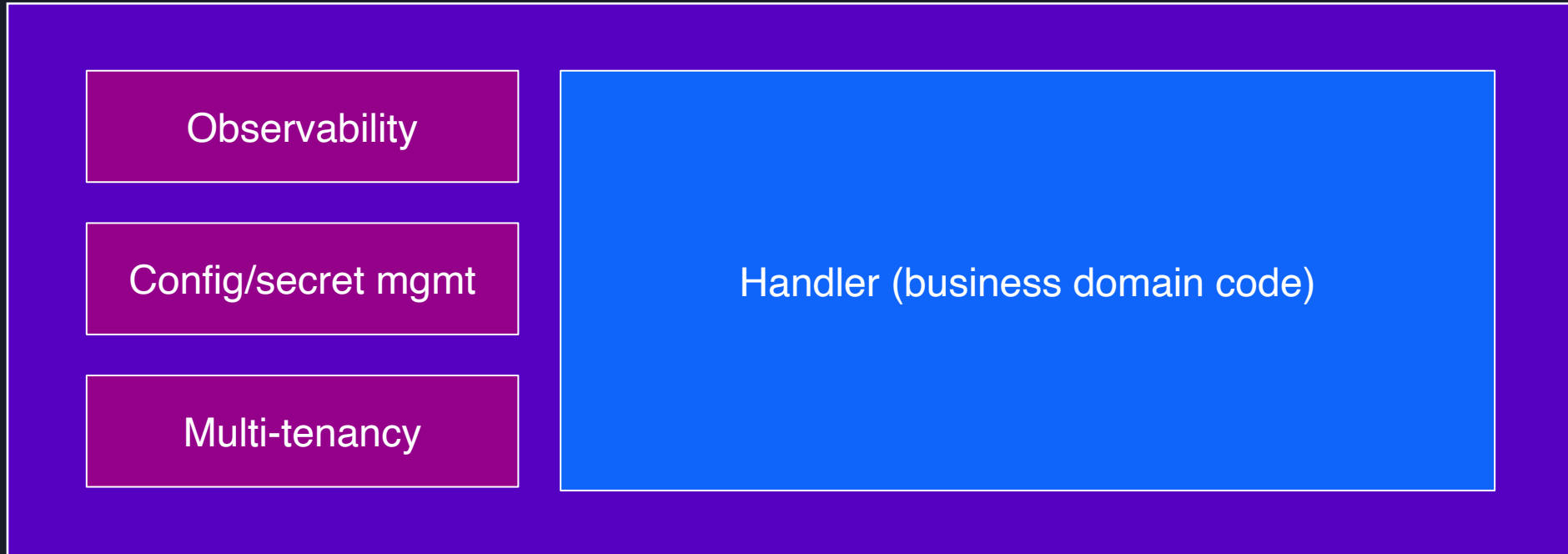
AWS Lambda



Function Blueprints



AWS Lambda



Function Blueprints



AWS Lambda



Function Blueprints

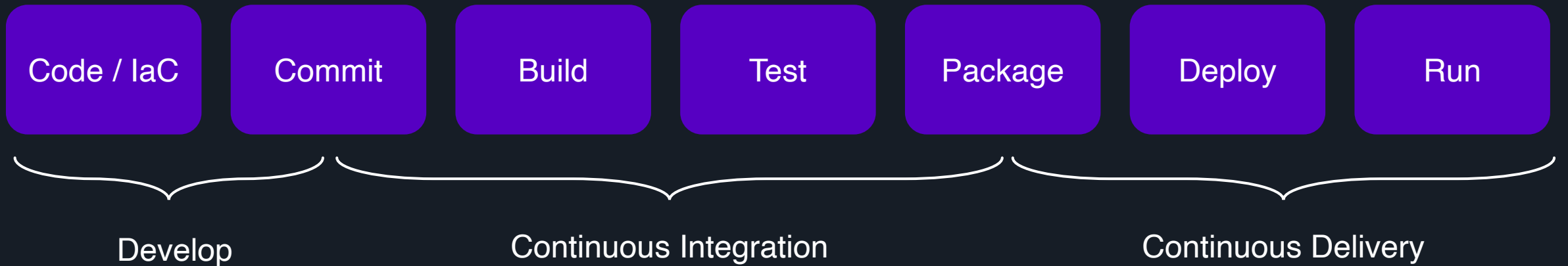


AWS Lambda

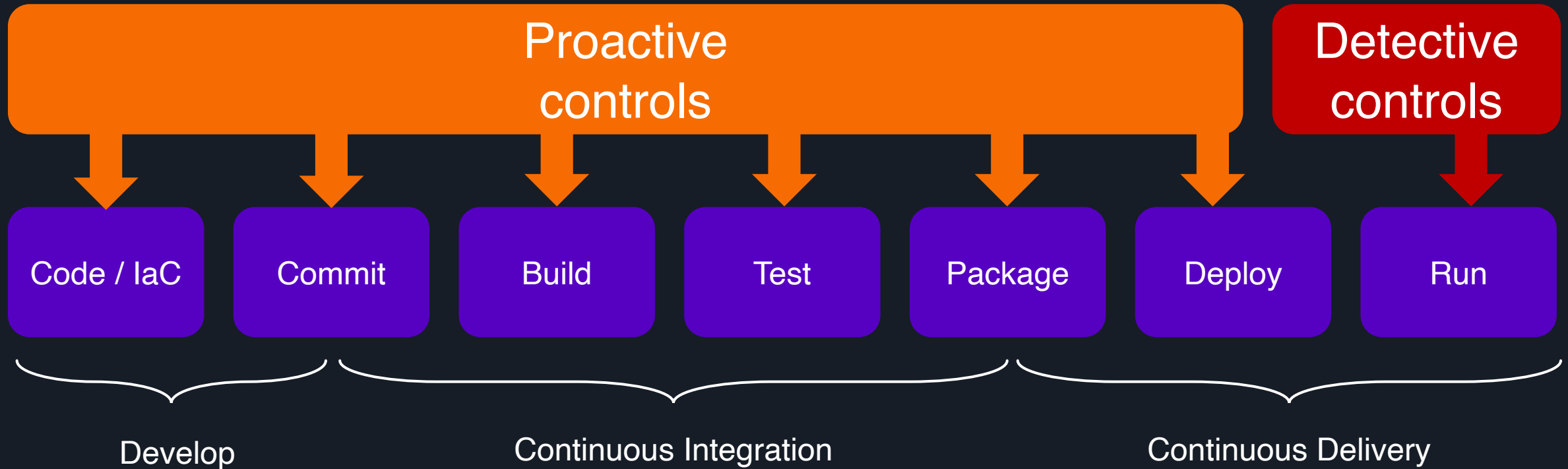


But what if developers want to make changes to the blueprint / pattern!?

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 Config
(proactive/detective)



AWS Organizations
(proactive/detective)



AWS Signer
(code signing)



Amazon Inspector
(code scanning)



AWS Control Tower
(multi-account environments)



AWS CDK
(cdk-nag)



HashiCorp Sentinel
Policies

Proactive
controls

Detective
controls

Code / IaC

Commit

Build

Test

Package

Deploy

Run

Develop

Continuous Integration

Continuous Delivery



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>

Proactive Governance Controls

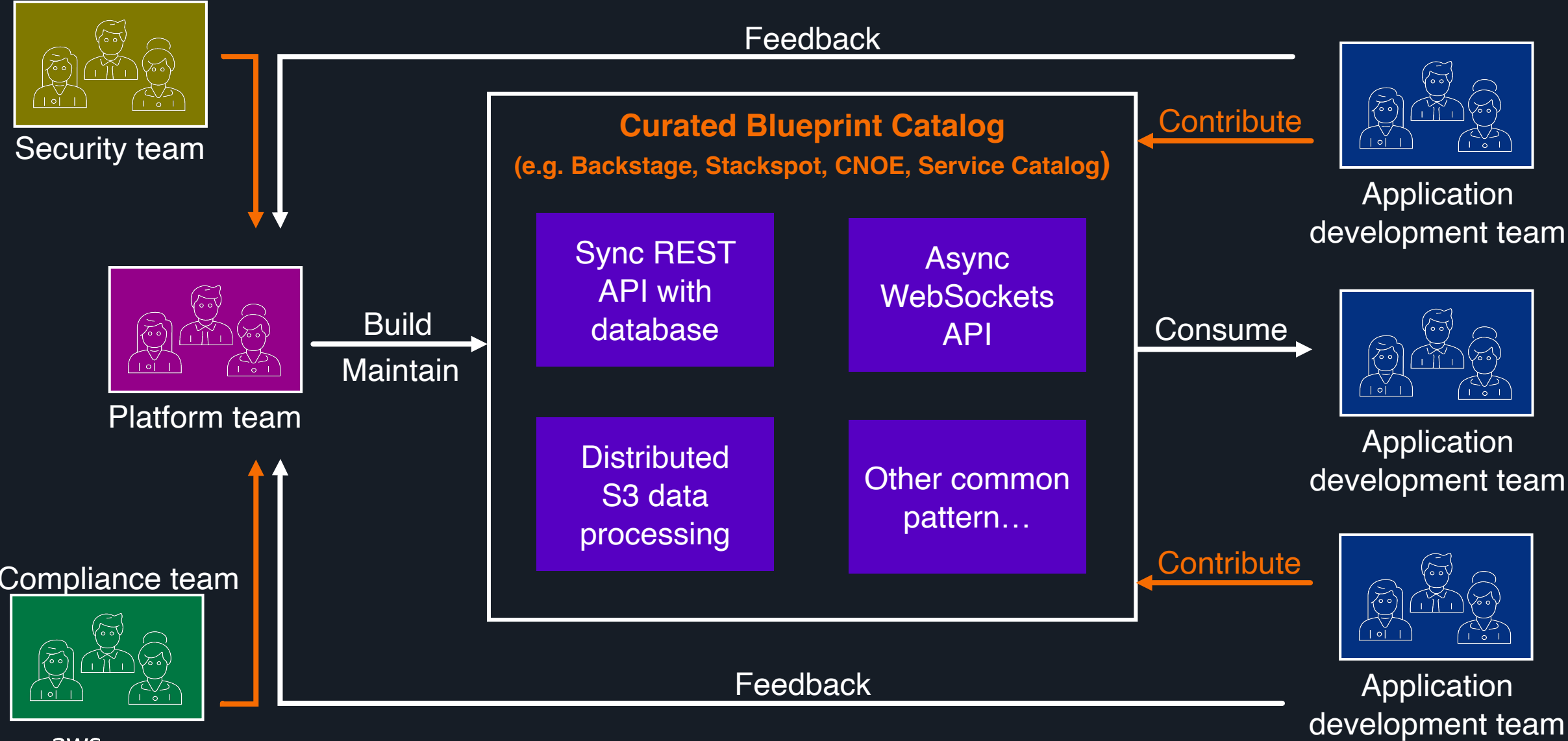


```
Check: CKV_AWS_66: "Ensure that CloudWatch Log Group specifies retention days"
  PASSED for resource: aws_cloudwatch_log_group.lambda_log_group
  File: /main.tf:31-35
  Guide: https://docs.prismacloud.io/en/enterprise-edition/policy-reference/aws-policies/aws-logging-policies/logging-13
Check: CKV_AWS_338: "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 \$\$\$**

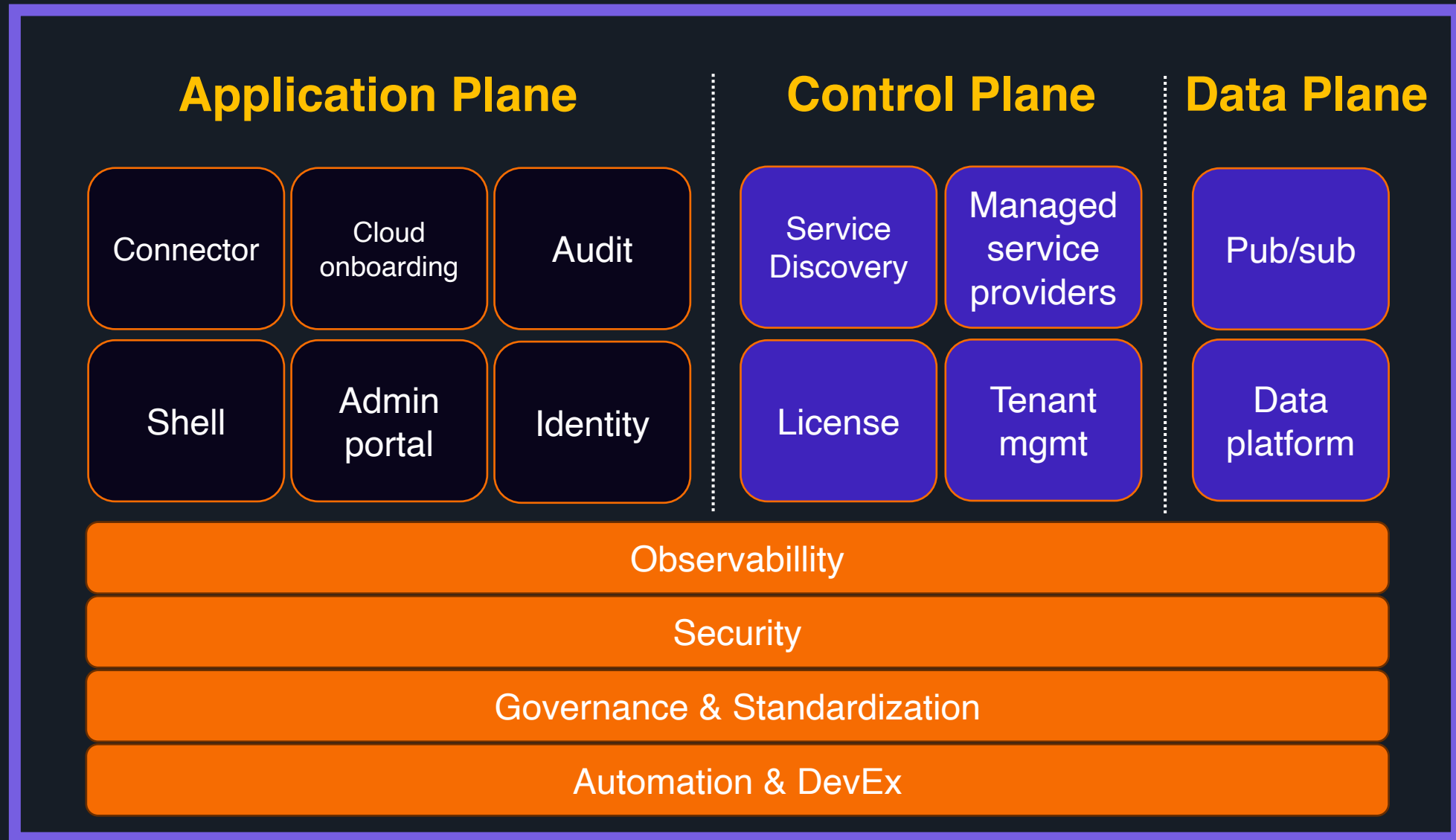
Ran Isenberg



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



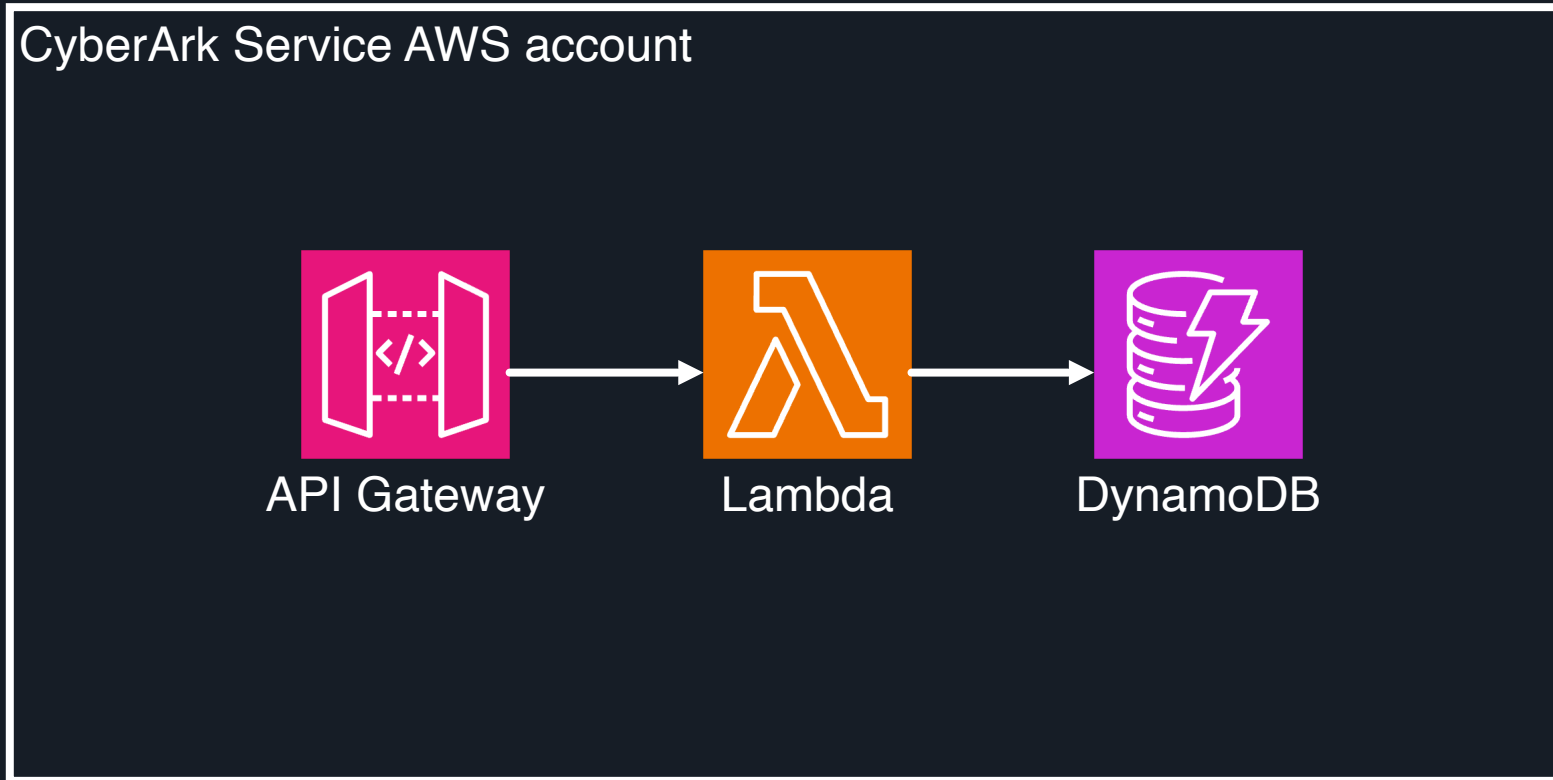
Platform Engineering: SaaS Products Overview



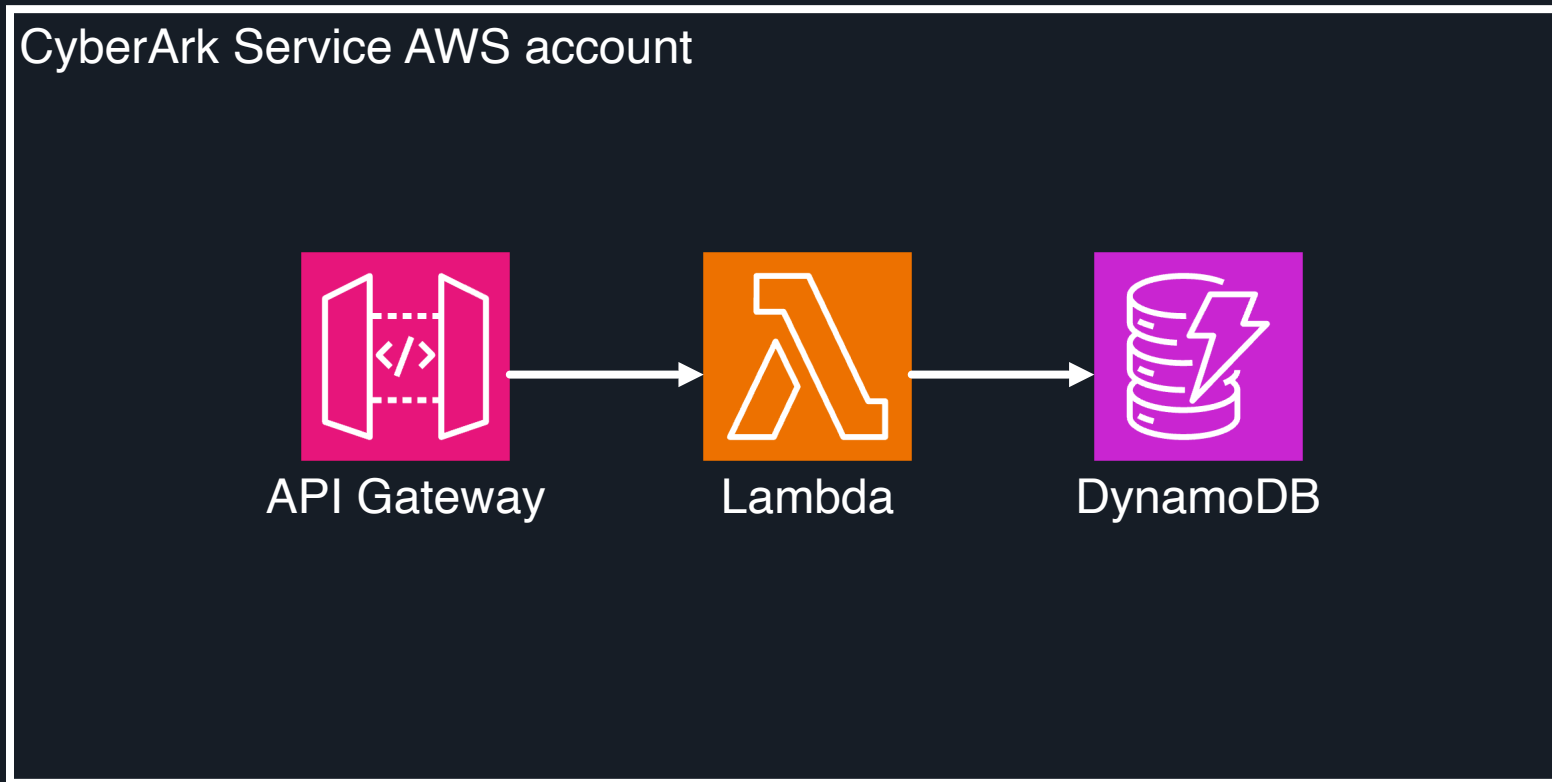
Scaling Enterprise-Grade Serverless Services



Challenges for a new enterprise-grade SaaS Service



Challenges for a new enterprise-grade SaaS Service



IaC

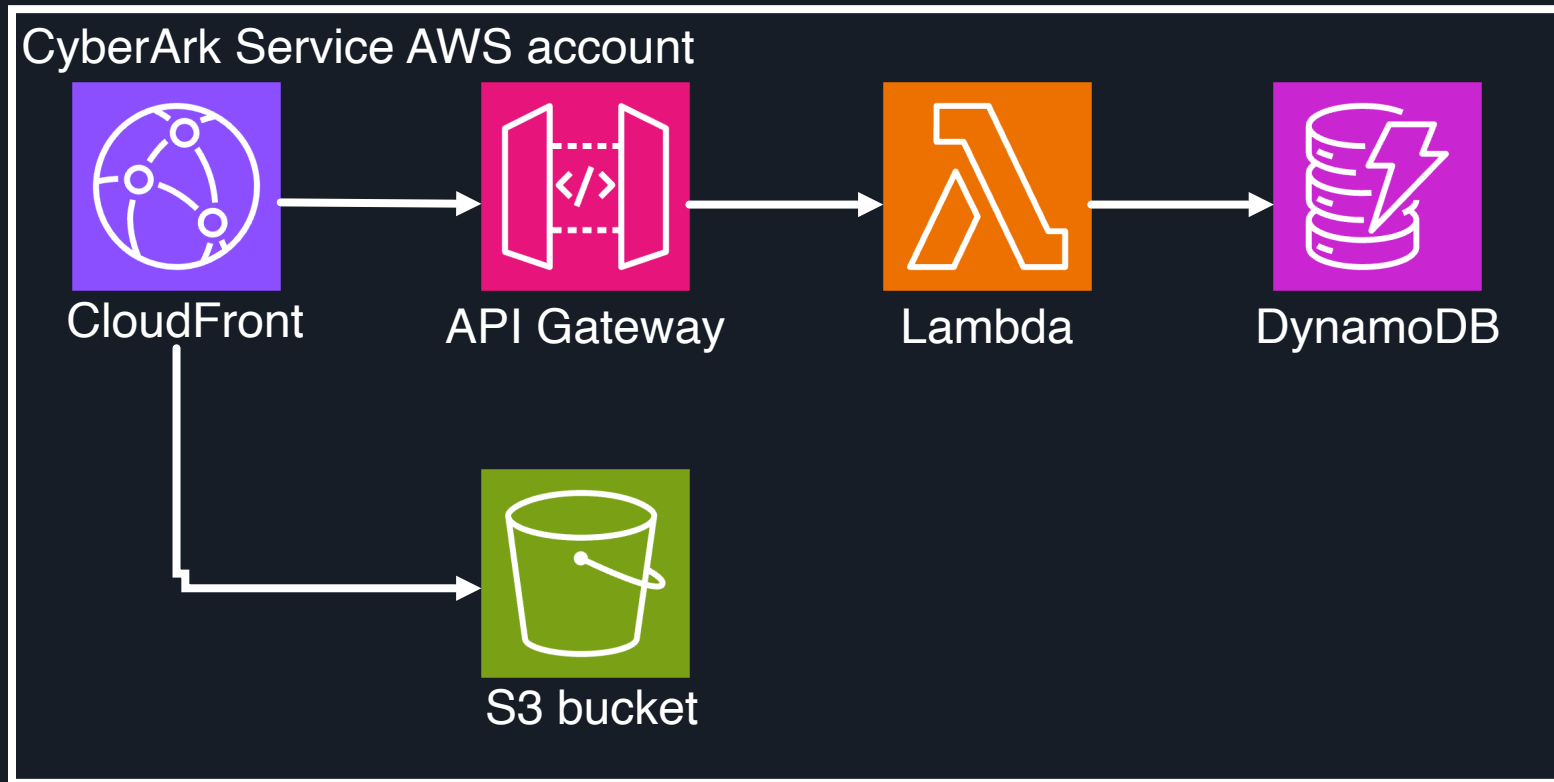
**CI/CD
pipeline**

**Best
practices**

Testing

Observability

Challenges for a new enterprise-grade SaaS Service



IaC

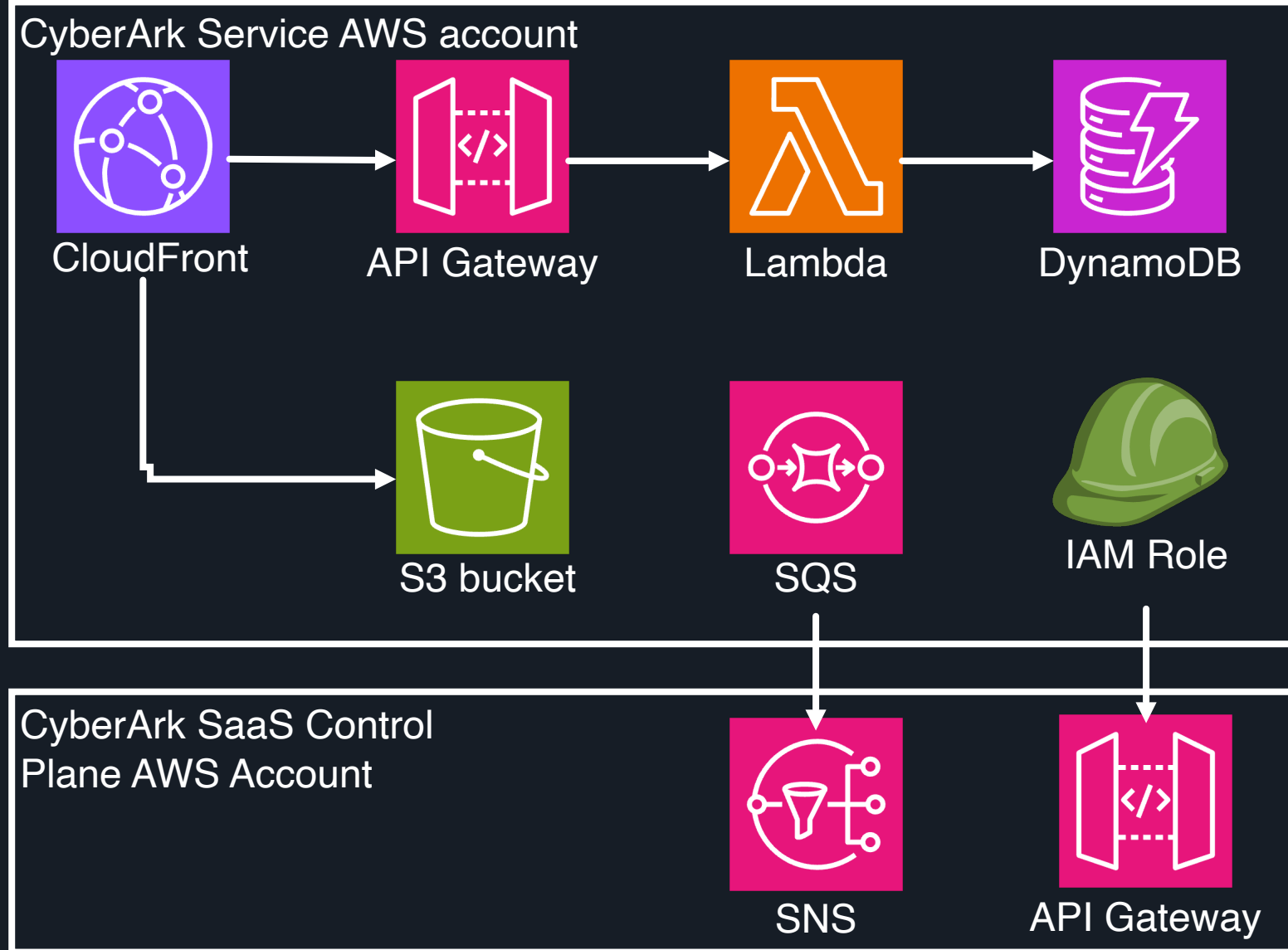
**CI/CD
pipeline**

**Best
practices**

Testing

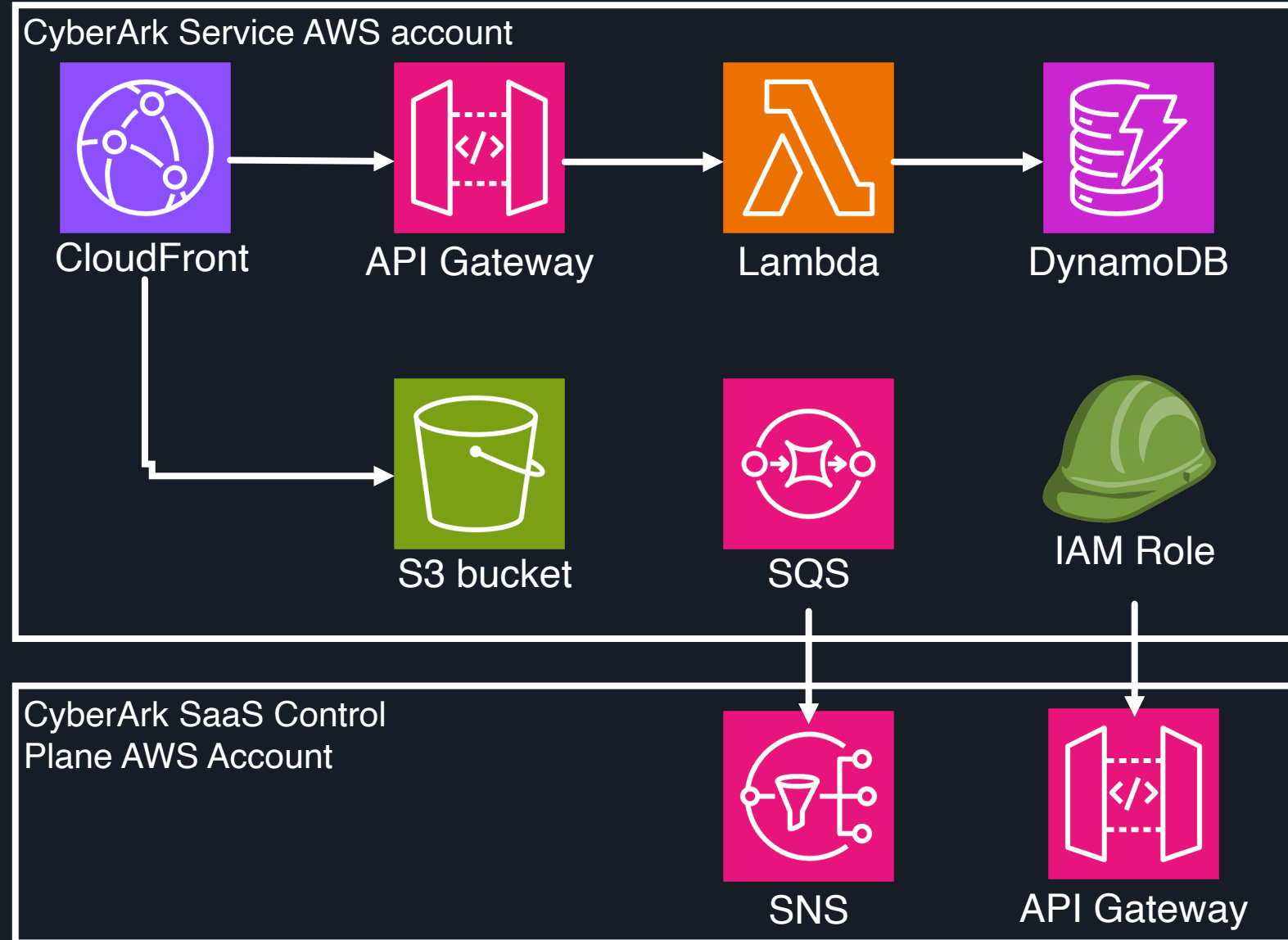
Telemetry

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

AFTER

Serverless Platform Engineering

5+ months

3 hours



Automation DevEx



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

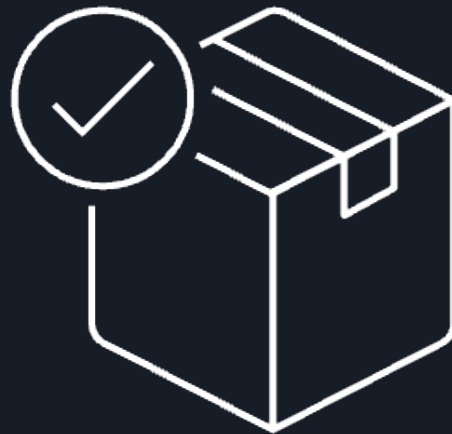
CRUD API

BEST
PRACTICE
S

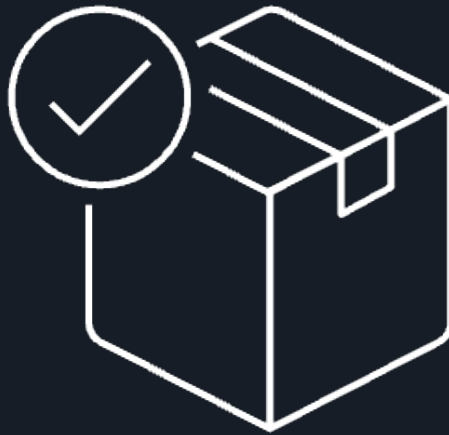
FRONTEN
D

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

HomeCatalogSelf-service

Self-Service Hub

Create Actions



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



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It all Starts with the Developer Portal

Business Service

Json Mode X

Creation of CyberArk's SaaS business service . The following microservices will be implemented as part of this service: Frontend, Backend, Configuration, Platform Catalog, Tenant Management Integration, CloudFront.

Domain*

Platform

X

▼

GitHub Organization*

Everest

X

▼

Service ID*

oneclick

Service Name*

OneClick

Service Sub-Domain*

oneclick

Snyk Organization*

everest-platform-core

X

▼

Additional Owners

MP Mauro Rois

X

▼

Topics

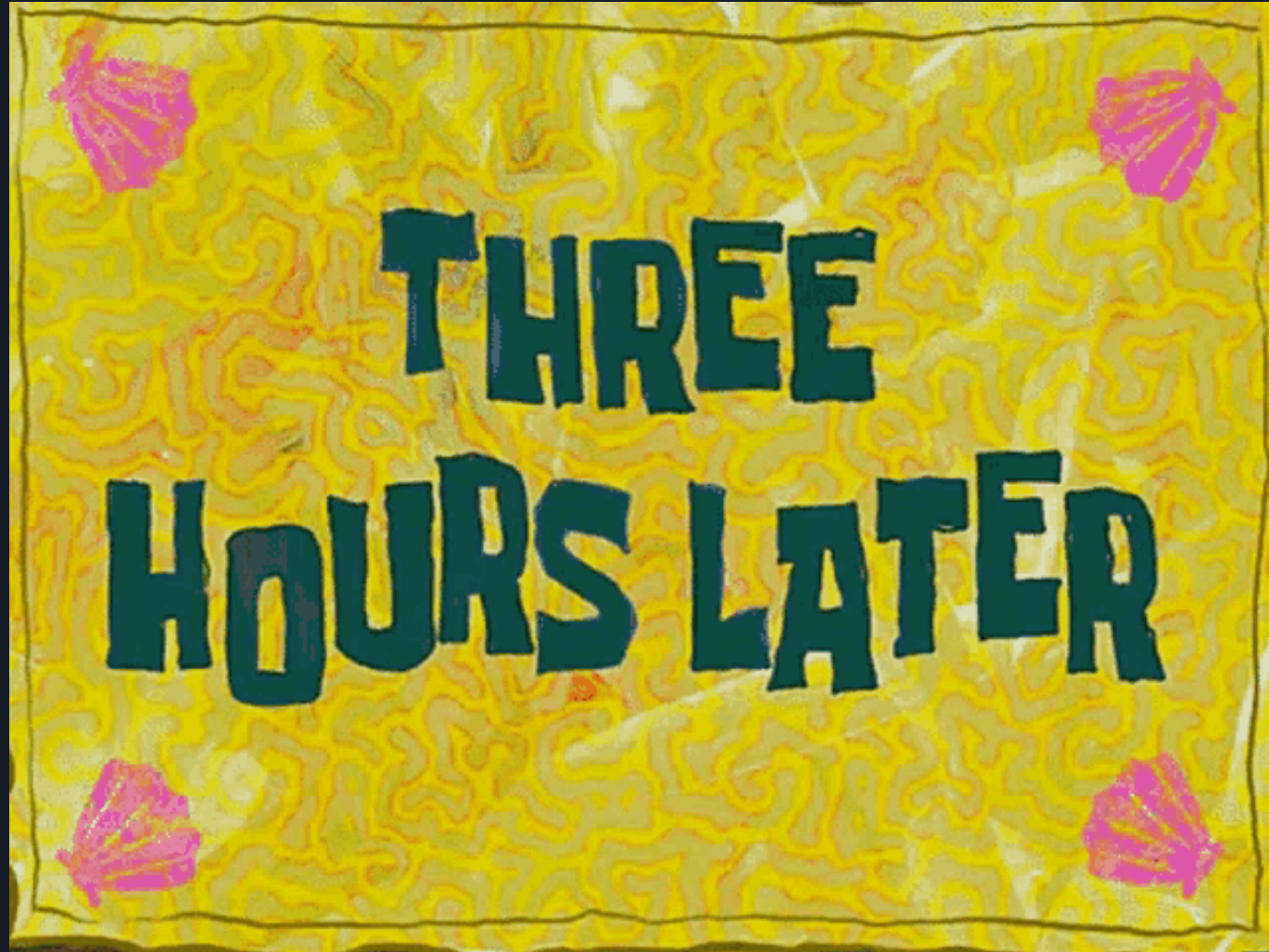
Team*

PI Platform ISP Core services Team

X

▼

It all Starts with the Developer Portal



New components and integrations provisioned

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

New service deployed to production, UI included

 **CYBERARK**

 One Click

 Oneclick

Oneclick (FF Enabled)

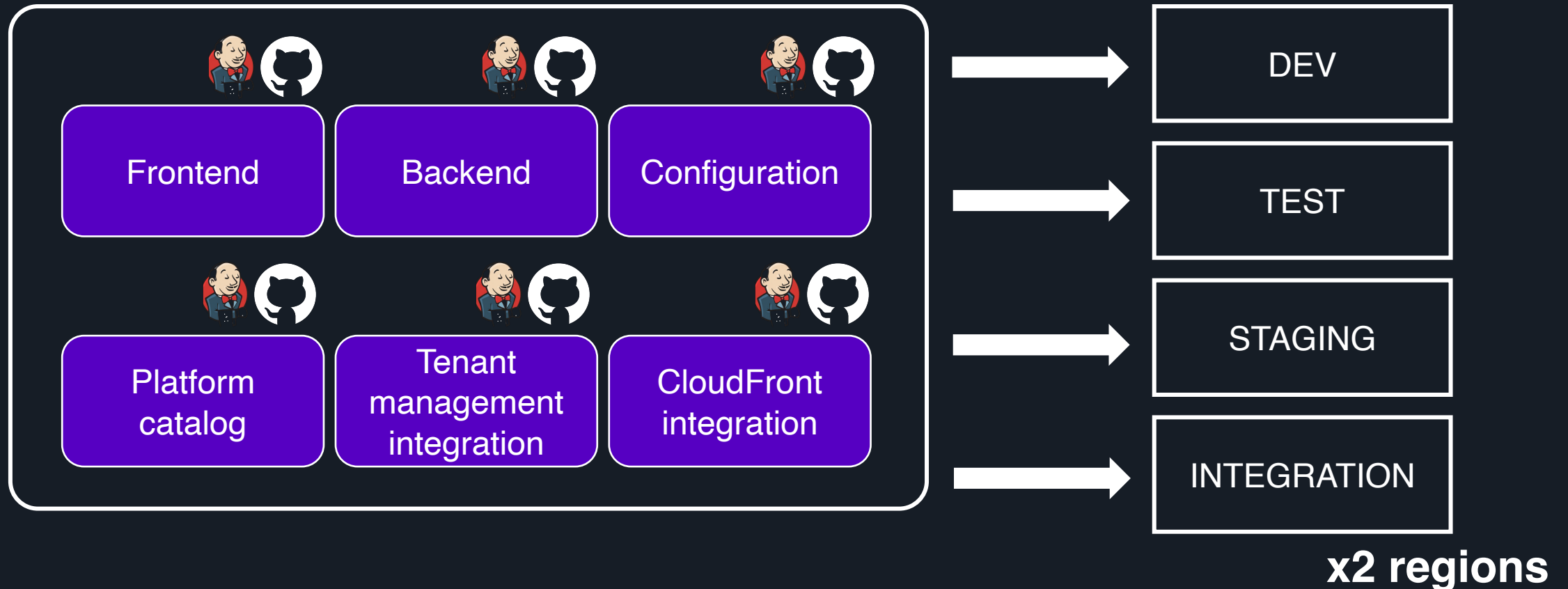
4 items

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



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



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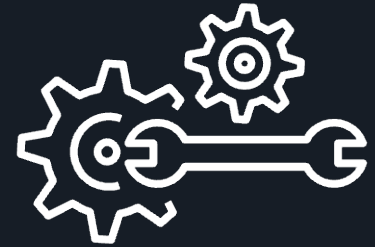
Automation DevEx Tips



Simple to use, with
minimal prerequisites



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



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

Architectural Blueprints



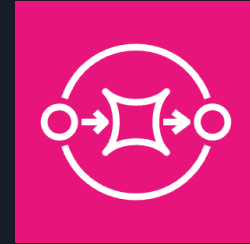
Architectural Blueprints **Examples**



**Lambda with dynamic
provisioned
concurrency**



Secure S3 bucket



**SQS Queue with
DLQ and redrive**



KMS with CMK



**Tenant aware
Idempotency table**



WAF ACL association

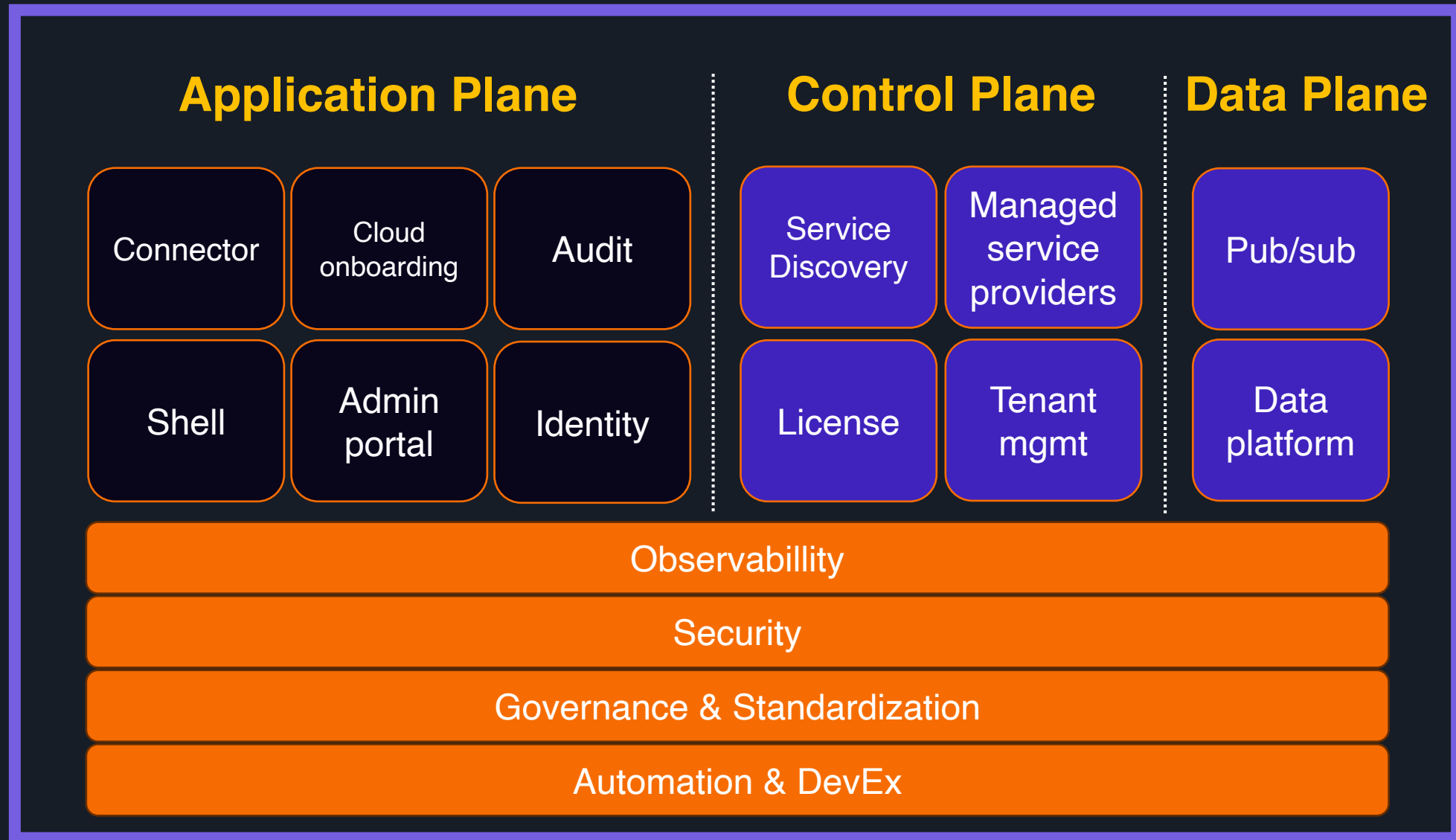
Secure S3 Bucket CDK Construct

```
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)
```

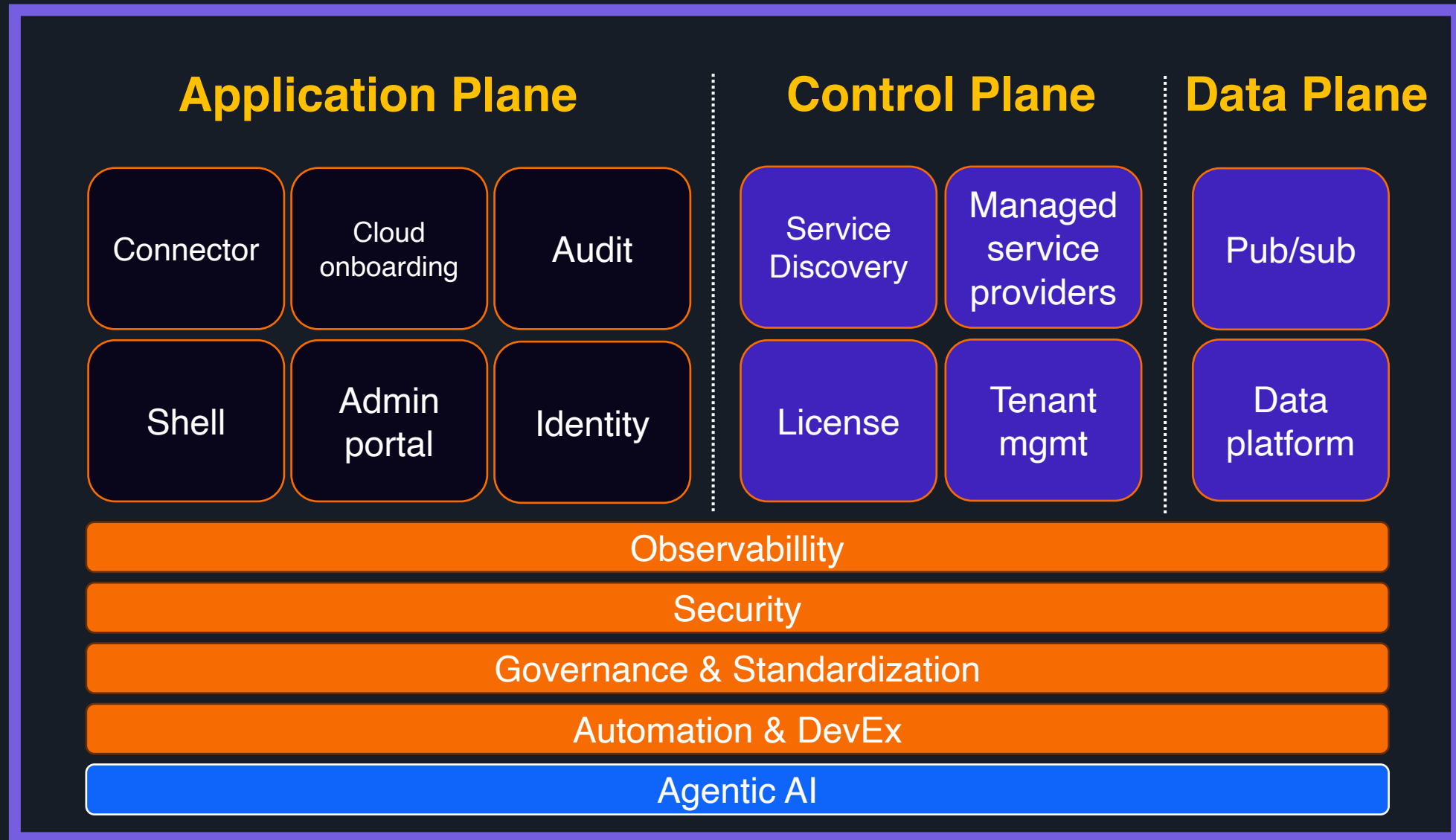
Your products are evolving



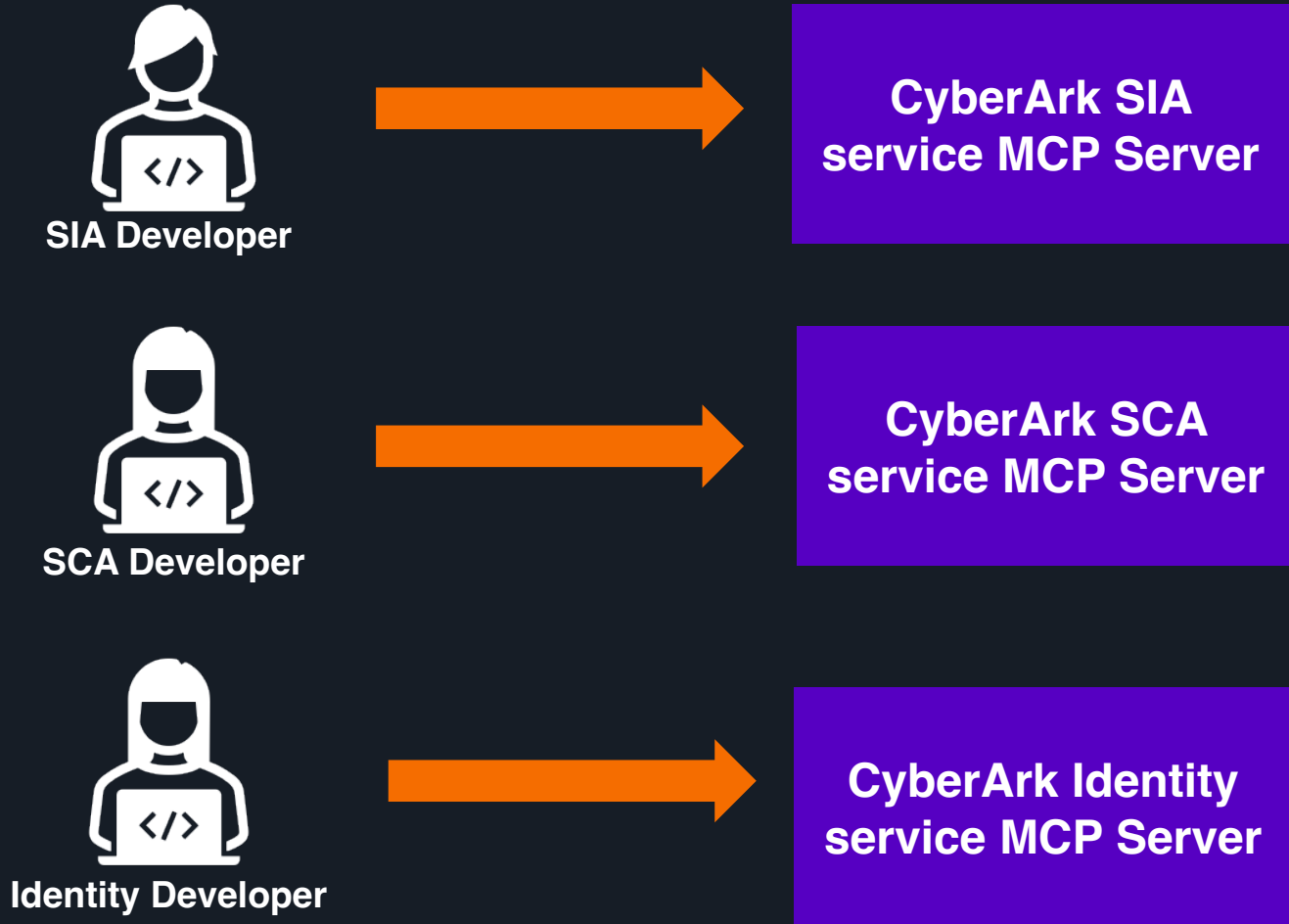
Platform Engineering: SaaS Products Overview



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

- **Duplicated efforts, architectural inconsistencies, technical debt**



CyberArk SIA
service MCP Server

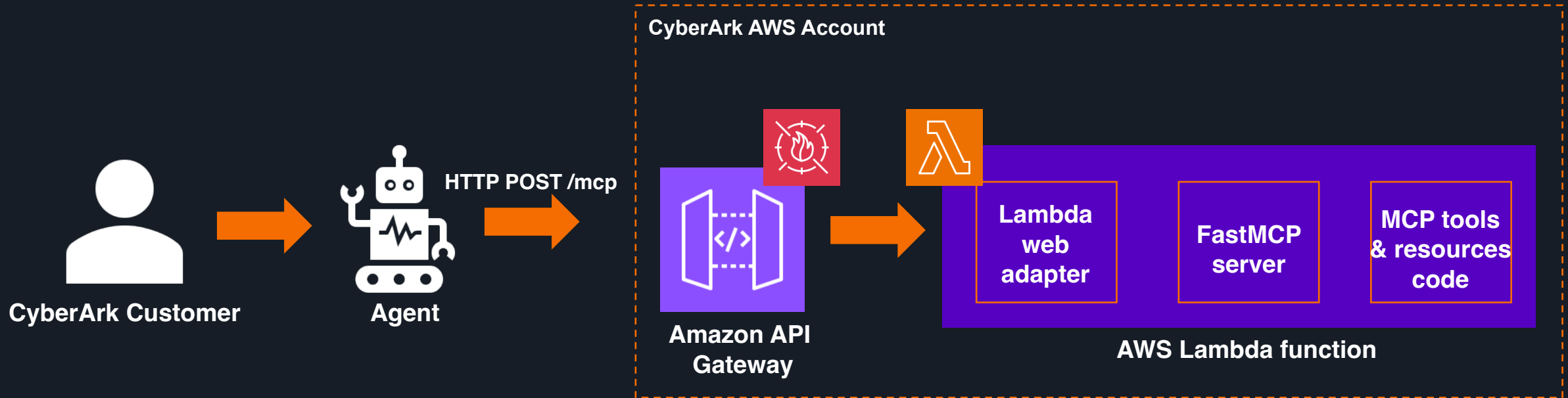


CyberArk SCA
service MCP Server



CyberArk Identity
service MCP Server

Platform Engineering and MCP Blueprints



IaC

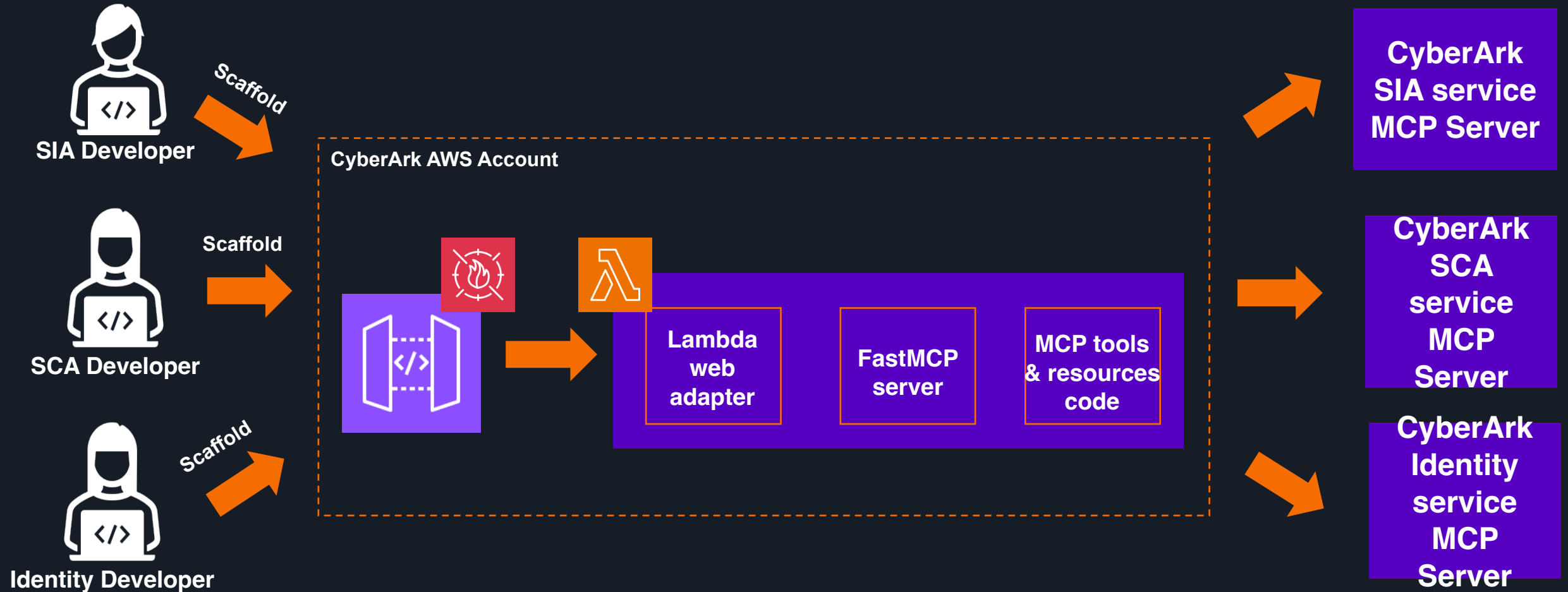
**CI/CD
pipeline**

**Security
best
practices**

Testing

Observability

Platform Engineering and MCP Blueprints



In conclusion



A dramatic landscape photograph capturing a volcanic eruption at sunset. A massive, dark plume of smoke and ash billows upwards from the ocean, illuminated by the warm, orange light of the setting sun. The foreground shows the dark, silhouetted edge of a rocky cliff. The sky is a gradient of orange and yellow, with some wispy clouds. The overall mood is powerful and awe-inspiring.

Don't boil the ocean



One size doesn't fit all workloads

A human brain is shown from a side profile, facing left. From the top of the brain, a vibrant, multi-colored plume of smoke or paint splashes upwards and outwards. The colors include bright yellow, orange, red, purple, and blue. The background is dark and textured, with some faint, wispy smoke or paint splatters visible. A semi-transparent horizontal band across the middle of the image contains the text.

Documentation and education are key

A man with a beard wearing a blue and white plaid shirt is on the left, gesturing with his hands. A woman with long brown hair wearing a yellow sweater is on the right, pointing upwards and smiling. They are standing in front of a dark chalkboard. A large, empty speech bubble is drawn in white chalk above them. A semi-transparent grey banner is positioned across the middle of the image, containing the text.

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 & AppInt Resources



<https://s12d.com/RIV2025>

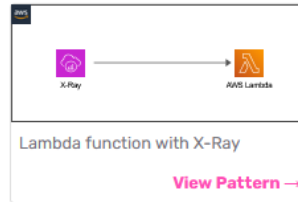
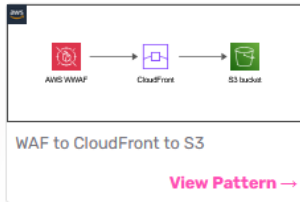
Continue your AWS serverless learning
Powertools for AWS Lambda
Serverless Land patterns

Serverless **Patterns** Collection

Build integrations using infrastructure as code with **serverless patterns**

941

PATTERNS





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