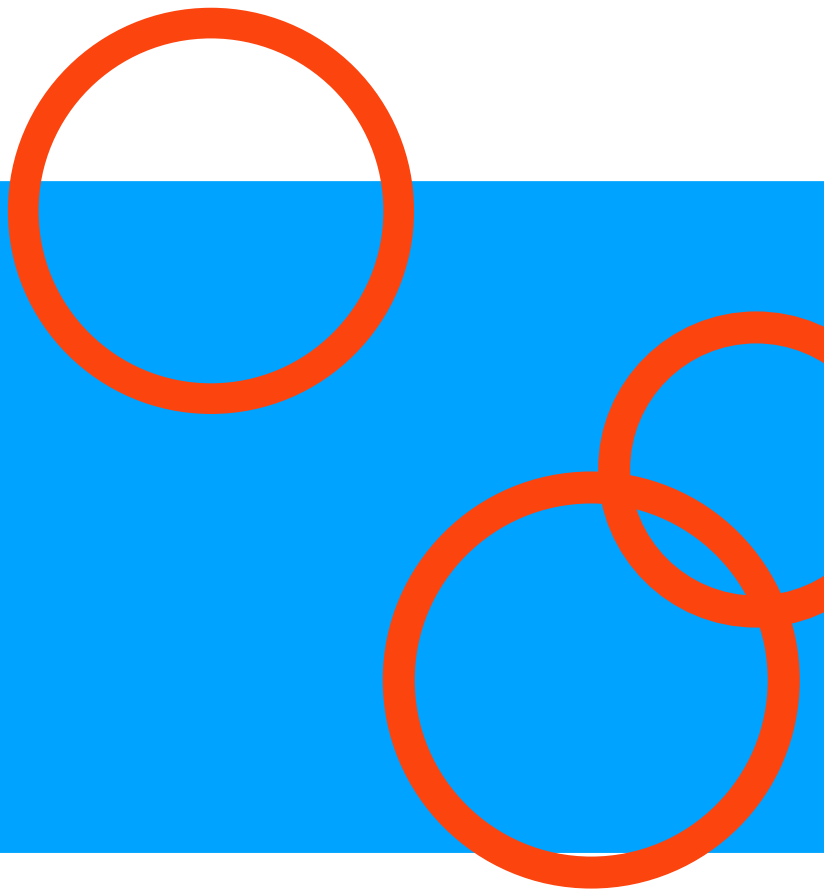




vNext PI-19 Update

26 Jul 2022

vNext Team





Agenda

- **vNext Build Status**
- **vNext Implementation Details**
- **Demo**
- **Wrap-up**



vNext Build Status

Alpha Version Status Update

Completed the Alpha versions of:

Cross-cutting concerns

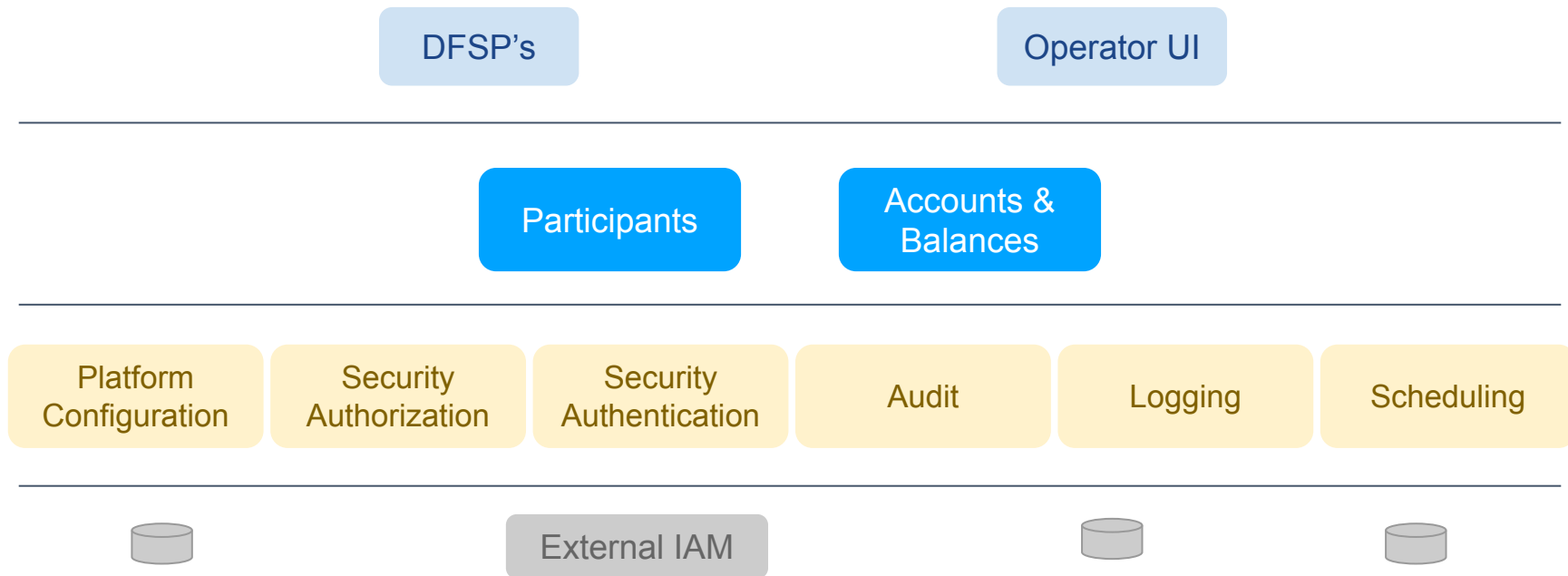
&

Participants and Accounts & Balances



vNext Implementation Details

Overview



Library Philosophy

Provide Public Types separate from implementation

Provide easy to use Client Libraries

Mono-repo per Bounded Context

Platform Configuration BC

Applications Define Schemas

Parameters, Feature Flags and Secrets

Central management

Automatic reload

1x REST Service
1x Client Lib
1x Public Types Lib

Security BC

Authentication + Authorization + Crypto

Native role based authorization (explicit)

Per application privileges

Plugable IAM, Crypto Mechanisms and KMS

Central management

2x REST Service
1x Client Lib
1x Public Types Lib

Logging BC

Flexible and fast logging

Developer friendly

Pluggable central storage

1x REST Service
1x Client Lib
1x Public Types Lib

Auditing BC

Cryptographic signatures (2 levels)

Pluggable transport mechanisms

Pluggable central storage

1x REST Service
1x Client Lib
1x Public Types Lib

Scheduling BC

Platform wide scalable crontab

Recurring or one shot reminders

Event or HTTP delivery mechanism

1x REST Service
1x Client Lib
1x Public Types Lib

Functional Bounded Contexts

Participants

Accounts Balances

Participants BC

Fully separate and testable Domain Logic

Role-based authorization

Native maker-checker

1x REST Service
1x Public Types Lib

Accounts & Balances BC

Fully separate and testable Domain Logic

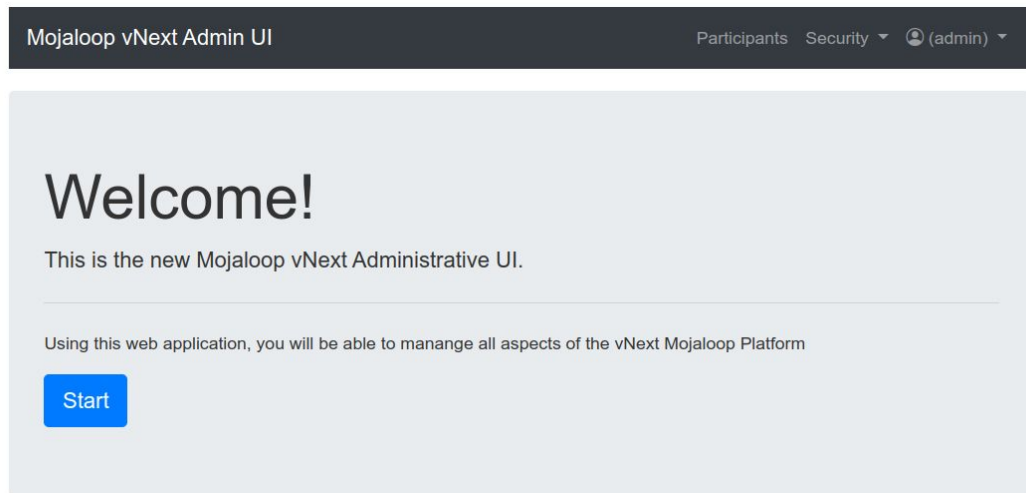
Black box ledger approach (no knowledge of outside)

Will be first to include fast gRPC interface

Controlled by other BCs

1x REST Service
1x Client Lib

Demo time!!



vNext Build Status - Cross Cutting

	Component Type	Repo name	Repo sub-dir / module
Done	Client - Shared Lib	platform-configuration-bc	config-client-lib
Done	Client - Shared Lib	platform-configuration-bc	secret-client-lib
Done	Service	platform-configuration-bc	config-svc
WIP	Service	platform-configuration-bc	secret-svc
Done	Client - Shared Lib	auditing-bc	auditing-client-lib
Done	Service	auditing-bc	auditing-svc
Done	Client - Shared Lib	logging-bc	logging-client-lib
Done	Service	logging-bc	logging-svc
Done	Client - Shared Lib	security-bc	authn-client-lib
Done	Service	security-bc	authn-svc
Done	Client - Shared Lib	security-bc	authz-client-lib
Done	Service	security-bc	authz-svc
Pending	Service	security-bc	kms-svc
Pending	Service	reporting-bc	reporting-svc
Pending	Client - Shared Lib	platform-monitoring-bc	metrics-client-lib
Done	Client - Shared Lib	platform-shared-lib	nodejs-kafka-client-lib
Done	Client - Shared Lib	platform-shared-lib	messaging-types-lib
Done	Service Template	nodejs-template-bc	n/a

vNext Build Status - Functional

Component Type		Repo name	Repo sub-dir / module
Done	Service	participants-bc	participants-svc
Done	Types Lib	participants-bc	public-types-lib
Done	Service	accounts-and-balances-bc	accounts-and-balances-svc
Done	Client - Shared Lib Lib	accounts-and-balances-bc	client-lib
Pending	(Complete BC)	transfers	
Pending	(Complete BC)	quotes	
Pending	(Complete BC)	account-lookup	
Pending	(Complete BC)	FSPIOP & ISO Interop API	
Pending	(Complete BC)	settlements	
Pending	(Complete BC)	notifications	
Pending	(Complete BC)	settlements	

Resource Status

Development accelerated this last PI!!!

For PI 19 we will have
more time from Gonçalo Garcia and a
new Senior developer will join

Help is always needed ;)

Thanks!

Team

Gonçalo Garcia - Community

Jason Bruwer - Coil

Michael Wagener - Coil

Pedro Barreto - Crosslake

Q&A

Reference Architecture

<https://mojaloop.github.io/reference-architecture-doc/introduction/>

vNext Repositories

<https://github.com/mojaloop?q=vnex>