Rogers DAL Core Infrastructure Automation Kickoff

Architech/Microsoft/Rogers

January 15, 2019

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Agenda

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- Project Objectives
- Roles and Responsibilities
- Execution Approach
- Sprint Schedule
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- Communication Plan
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Rogers DAL Background

- Rogers DAL (Digital Access Layer) will enable a Read-Only data store for customer data to be consumed by customer facing systems such as Rogers OneView
- This decoupling will increase performance and resilience of the consumer systems as well as the key SOR (System of Record) systems residing in the Rogers MDC network
- The architecture for DAL has been defined, and dates have been established to provision (initially manually) the identified environments across multiple phases
- There are multiple stakeholders for DAL, however, Architech's involvement is with the Rogers CloudOps group to enable the automation of the provisioning/configuration management, operational processes of the DAL infrastructure

Project Objectives

- Key high-level objectives are:
  - Automate the core Azure infrastructure life-cycle including
    - Network components (VNET, Subnet, Gateways, Load-Balancers, NSG, etc…)
    - VM/VMSS
    - Azure HDInsight Kafka
    - Storage
  - Enable observability of the DAL infrastructure e.g. monitoring, alerting, log aggregation, auditing
  - Work with product vendors (e.g., DataStax, RedHat, Microsoft, Oracle) to enable provisioning and configuration management of components such as Openshift, Kafka, Cassandra, Golden Gate
  - Secure access to the system for all roles
  - Identify and enable operational best-practices
  - Document and provide knowledge transfer to Rogers SMEs

Roles and Responsibilities

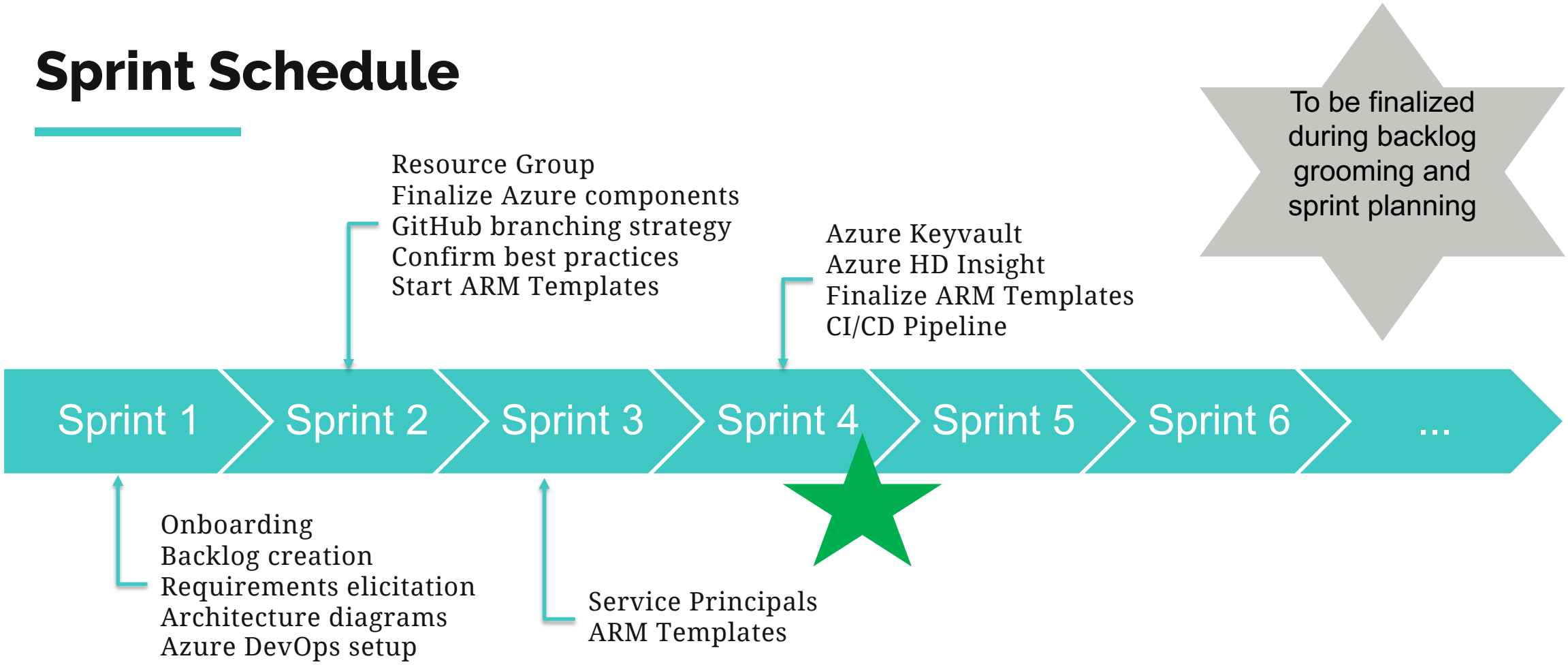
Name	Company	Role	Responsibilities
David Sedgewick	Rogers (CloudOps)	Project Sponsor	Key Decision Maker, Stakeholder
Dinkar Sinha	Rogers (CloudOps)	Senior Manager	Stakeholder
Dilip Patel	Rogers (CloudOps)	Advisory	Infra Automation Prime, Requirements
Rupali Sood	Rogers	Project Manager	Planning, Communication
Dakshay Patel	Rogers (CloudOps)	Advisory	Openshift Prime, Requirements
Mustafa Ibrahim	Rogers (CloudOps)	Advisory	DAL Infra Prime, Requirements
Jungho Kim	Architech	CTO/Chief Architect (PT)	Technical/Architecture
Brian Broda	Architech	Project Manager (PT)	Planning, Communication
Erol Kavas	Architech	DevOps Lead (PT)	DevOps Guidance
Nischith Muthyala	Architech	DevOps Engineer	DevOps Artefacts
Harsha Rao	Architech	DevOps Engineer	DevOps Artefacts
Padmalatha Ragunathan	Microsoft	Cloud Solution Architect	Requirements
Krishna Venkat	Microsoft	Cloud Solution Architect	Requirements

Execution Approach

- This project will be executed using an Agile approach.
- Two week sprints will allow for reprioritization of scope and will allow for iterative feedback to ensure that design and deliverables are continuously meeting client objectives.
- This approach requires consistent involvement from the client Product Owner to ensure the team is maximizing their design and development time.
- Rapid responses to questions are critical to ensuring the team does not lose momentum.
- Stories created on the Rogers Azure DevOps project will be used for managing the project deliverables.

Immediate next step to review high-level backlog and draw "line in the sand" for phase 1, which is automation of the provisioning of core Azure infrastructure.

Sprint Schedule



- We have 6 two-week sprints of the DAL Core Infrastructure Pipeline project
- We will complete the implementation of the Phase 1 Foundational Azure infrastructure in Sprint 4
- Work on the Phase 2 deliverables will start in Sprint 4

Assumptions

- The architecture and design of the DAL system has been defined and aligned across all stakeholders
- All non-functional requirements to guide the design has been captured and aligned across all stakeholders
- This initiative is not tied to the critical path for the DAL production timelines
- Rogers will enable Architech to gain access to all the necessary environments with the necessary access privileges
- Rogers will provide a SME with the authority to make decisions quickly
- Rogers will enable other vendors such as DataStax, Microsoft, Oracle, Redhat to provide Architech configuration details required to automate the provisioning and configuration management of their components
- Rogers Security group will provide necessary security controls and details related to certificate life-cycle management
- Microsoft and Rogers will provide necessary requirements for Azure Policy, Roles, and RBAC

Communication Plan

Communication Type	Objective	Frequency	Audience	Owner
Kickoff Meeting	Project Initiation	Once	Project Team Project Sponsor Product Owner Key Stakeholders	PM
Project Status	Regular status updates	Weekly	Project Team	PM
Sprint Demo	Present completed stories to stakeholders	Bi-Weekly	Project Team Product Owner Key Stakeholders	Project Team
Sprint Retrospective	Opportunity to review with the team what worked, what didn't and what can be improved on	Bi-Weekly	Project Team	PM

Risks / Issues

ID	Raised	Category	Risk	Impact	Probability	Status	Mitigation
001	Jan 15	Project Management	Coordination with multiple vendors required to achieve success	High	High	Open	Alignment between vendors on RACI, who is the PM managing all vendors?
002	Jan 15	Architecture	Some architectural/design details still undefined e.g. DNS, anything else?	High	High	Open	Drive towards decisions quickly across all vendors and Rogers
003	Jan 15	Requirements	Policy, RBAC, Verification not fully defined	High	High	Open	Quickly align and define requirement for Policy, Roles, Authorization policy for Phase 1, 2, 3

Next Steps

- Create Azure DevOps project for DAL
- Migrate High-Level Backlog to Rogers Azure DevOps project
- Continue to capture technical stories, get to “definition of done”
- Prioritize and “draw line in sand” for Phase 1 – core Azure infrastructure
- Access to Rogers location (e.g. LAN ID, etc)
- Access to Rogers Azure Subscription
- Document repository to capture all requirements, design docs, runbook
- Gather all existing requirements for DAL infrastructure, Azure Policy, RBAC etc

We use open source, cloud-native technologies to modernize systems.

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Integrated Development Studio


Strategy


Design


Engineering


Analytics


Support

Digital Transformation


Product Innovation


Legacy Modernizatio n


Team Enablement

Modern Product Development


Lean Startup


Design Thinking


Agile Engineering

14+ years

300+ projects

100+ people

40+ systems modernized

Digital Transformation Journeys

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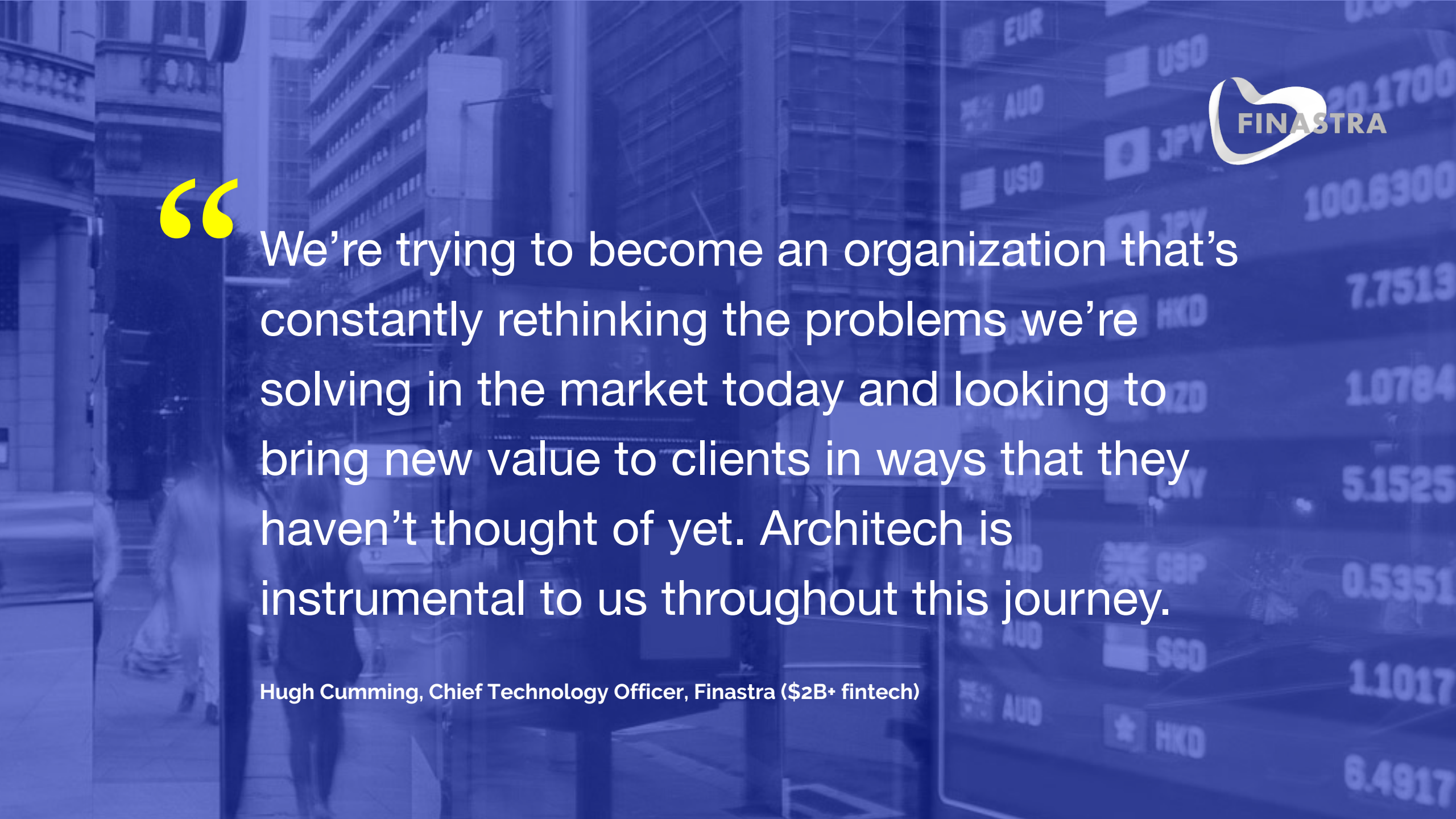

> We’re trying to become an organization that’s constantly rethinking the problems we’re solving in the market today and looking to bring new value to clients in ways that they haven’t thought of yet. Architech is instrumental to us throughout this journey.

Hugh Cumming, Chief Technology Officer, Finastra ($2B+ fintech)

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ARCHITECH

70 Bond St., Suite 400
Toronto, ON, Canada
M5B 1XB

P: 416.607.5618
F: 416.352.1768
www.architech.ca