

# Automation is the heart of the infrastructure revolution

Presented by: **Felix Zalcmann**, Strategy and Planning Sn Program Manager  
Presentation Date: October 12, 2022

# Why Kyndryl: Our people power customer transformations

## OUR INVESTMENT

### We are a talent destination

- 90,000 skilled professionals
- Industry-leading employee value proposition
- Proven IT experts: 10 years experience, on average

### Delivering high-quality performance today

- Consistently high attainment for 31,000 service-level agreements
- Industry-leading NPS scores <sup>1</sup>

### Staffing skills for the future

- 96% of Kyndryls acquire new skills annually
- 1/3 of experts upskill in new technologies – cloud, AI, agile & more
- 31,000 vendor-recognized certifications in VMware, Cisco, Red Hat, Azure, AWS and more

## YOUR VALUE

An engaged and innovative expert talent pool to lead your IT modernization

Delivering with proven and reliable services – we are rated 26% points higher than our nearest competitor for this capability <sup>2</sup>

Helping modernize processes and operations – we are rated 22% points higher than our nearest competitor for this capability <sup>2</sup>

Source:

1. IBM GTS-IS NPS scores (Dec 2017 – Aug 2021); Based on B2B benchmarks from Medallia
2. IBM Services Brand Study, Optimization and Management of Technology Infrastructure. May 2020

Achieving  
operational  
excellence.

Why customers  
choose Kyndryl  
with Red Hat

kyndryl™



## Expertise

**5000+ Qualifications**

Working together for 20+ years.



## Speed

**1,200 Customer engagements**



## Innovation

**Investing in our customers**

- Joint Innovation Centers: co-create to securely improve capabilities of Ansible for network, edge and cloud infrastructure



## Trust

**Largest global services provider of Red Hat technology**

Kyndryl has the largest services portfolio for Red Hat technology.

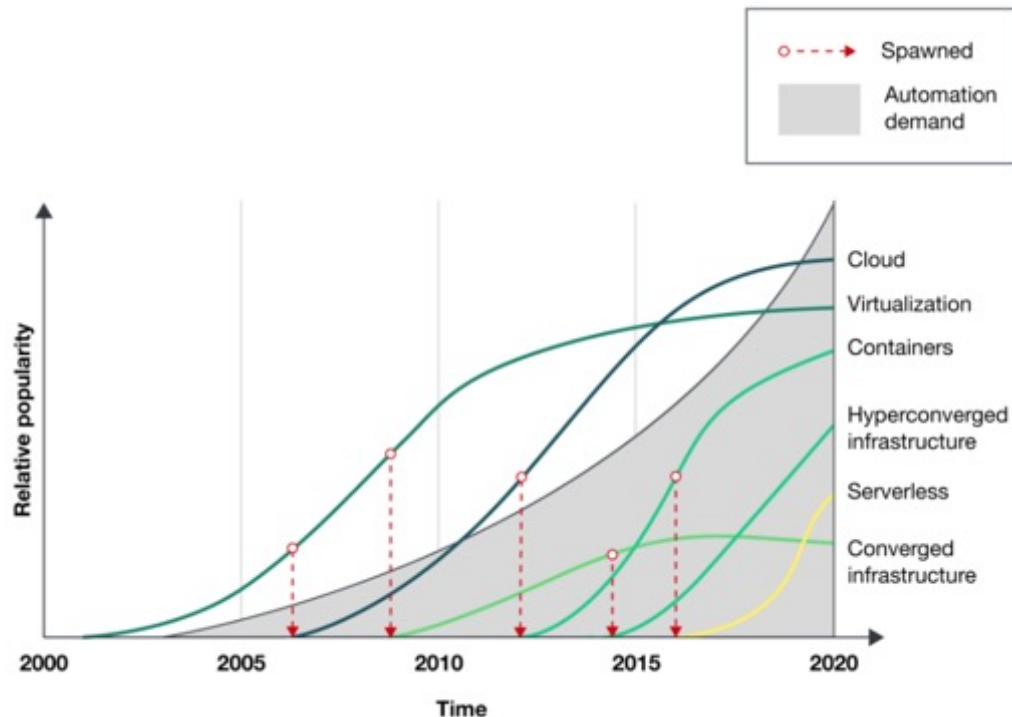
# Role of automation in infrastructure & operations revolution

## INFRASTRUCTURE HAS MATURED, FUELED BY ABSTRACTION AND AUTOMATION

FORRESTER

### Technology Abstractions Build Upon Other Abstractions, Accelerating Automation Demand

*Automation Drives The I&O Industrial Revolution*



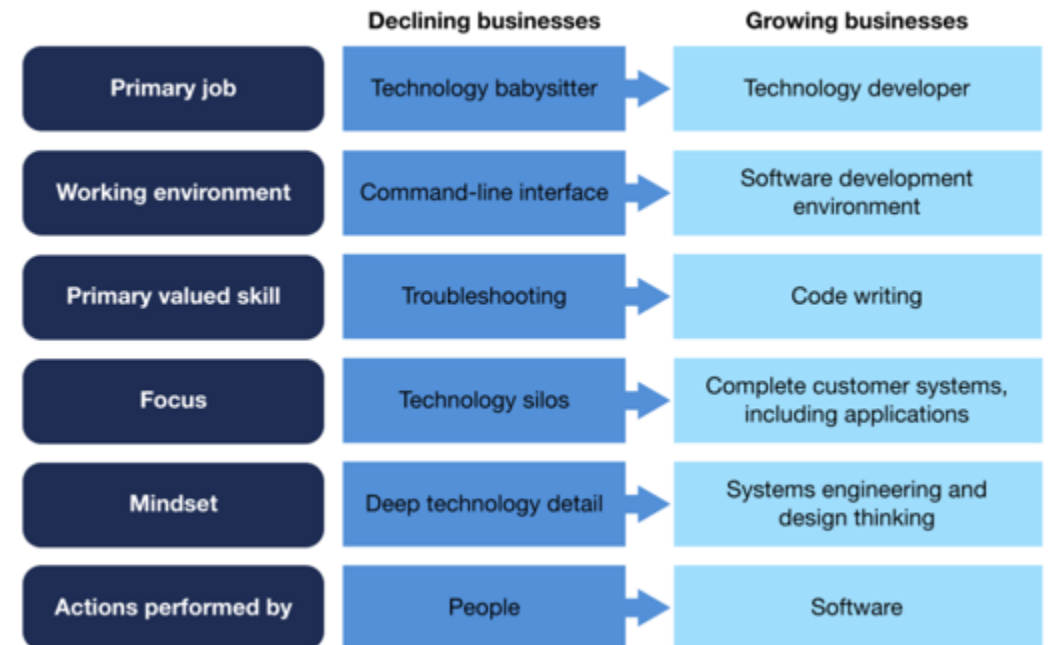
Source – Forrester Research – ‘Automation drives the I&O Industrial Revolution’

kyndryl

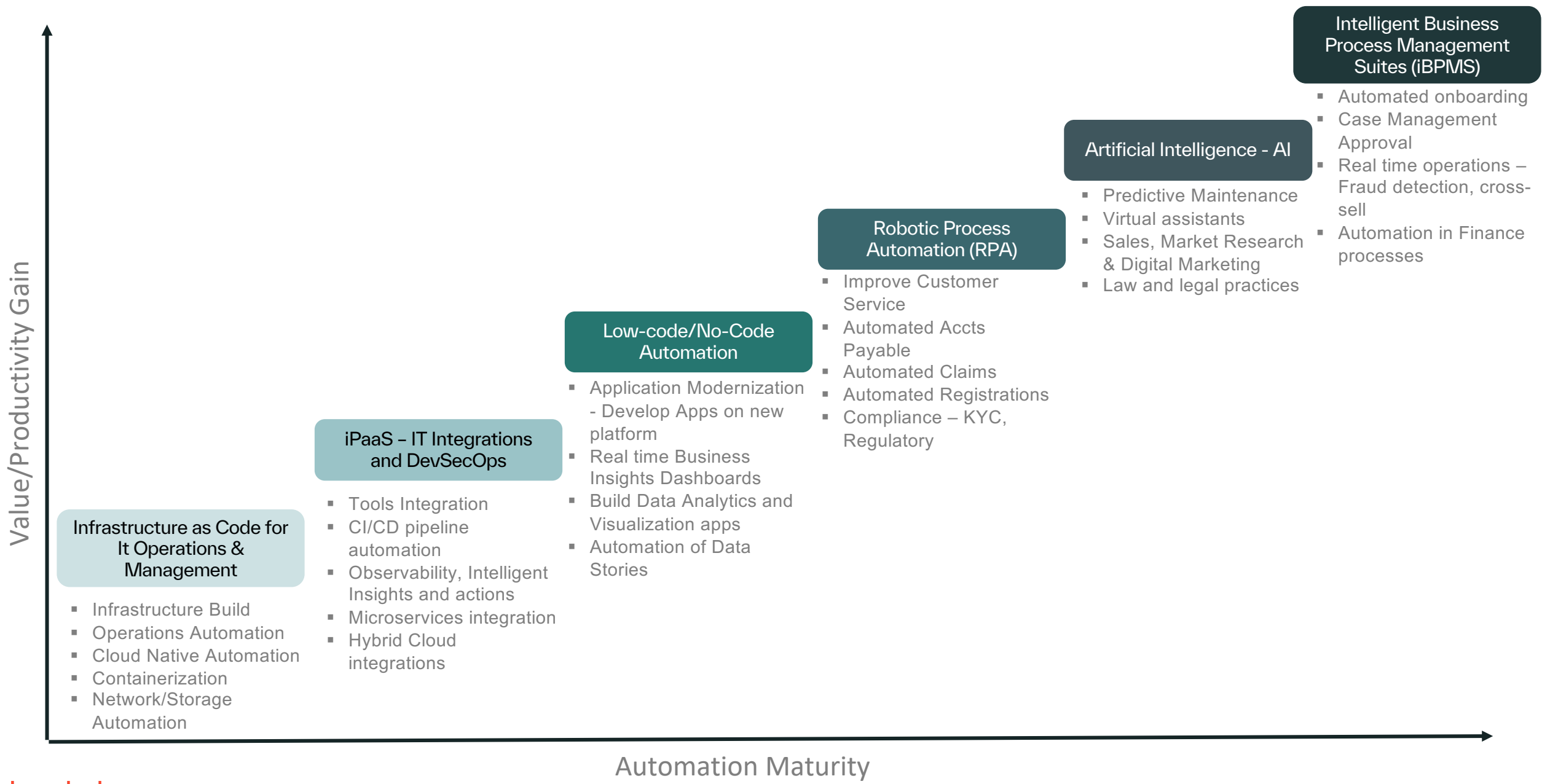
## AUTOMATION IS THE HEART OF THE INFRASTRUCTURE REVOLUTION

I&O leaders must move quickly and carefully to pursue automation:

- Spread DevOps practices through the whole company
- Unlock your team's true potential
- Design a different architecture for speed, scalability, & dependability – microservices
- Integrate multiple flavors of cloud with on-premises technology and edge computing
- Stop "babysitting" your infrastructure
- Dramatically reduce manual security and compliance operations



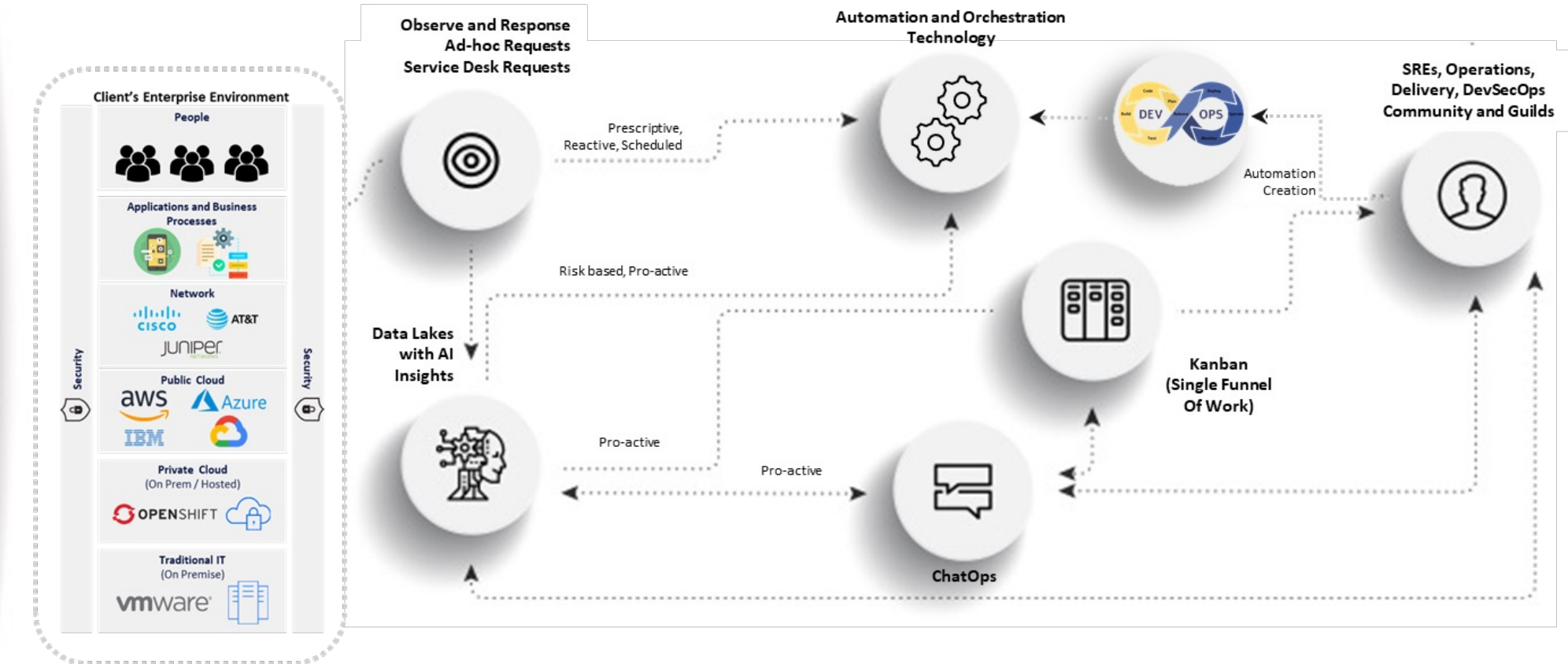
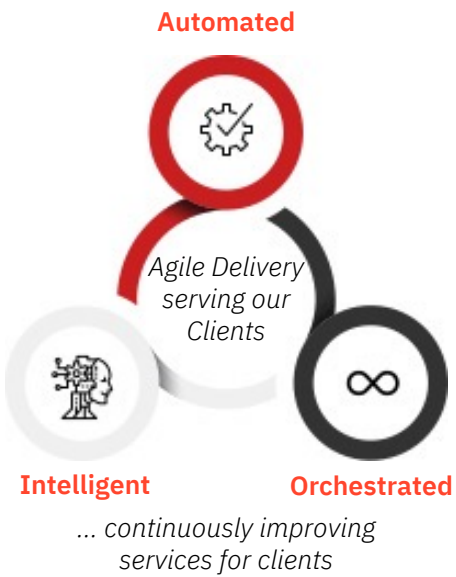
# Automation maturity model for enterprises



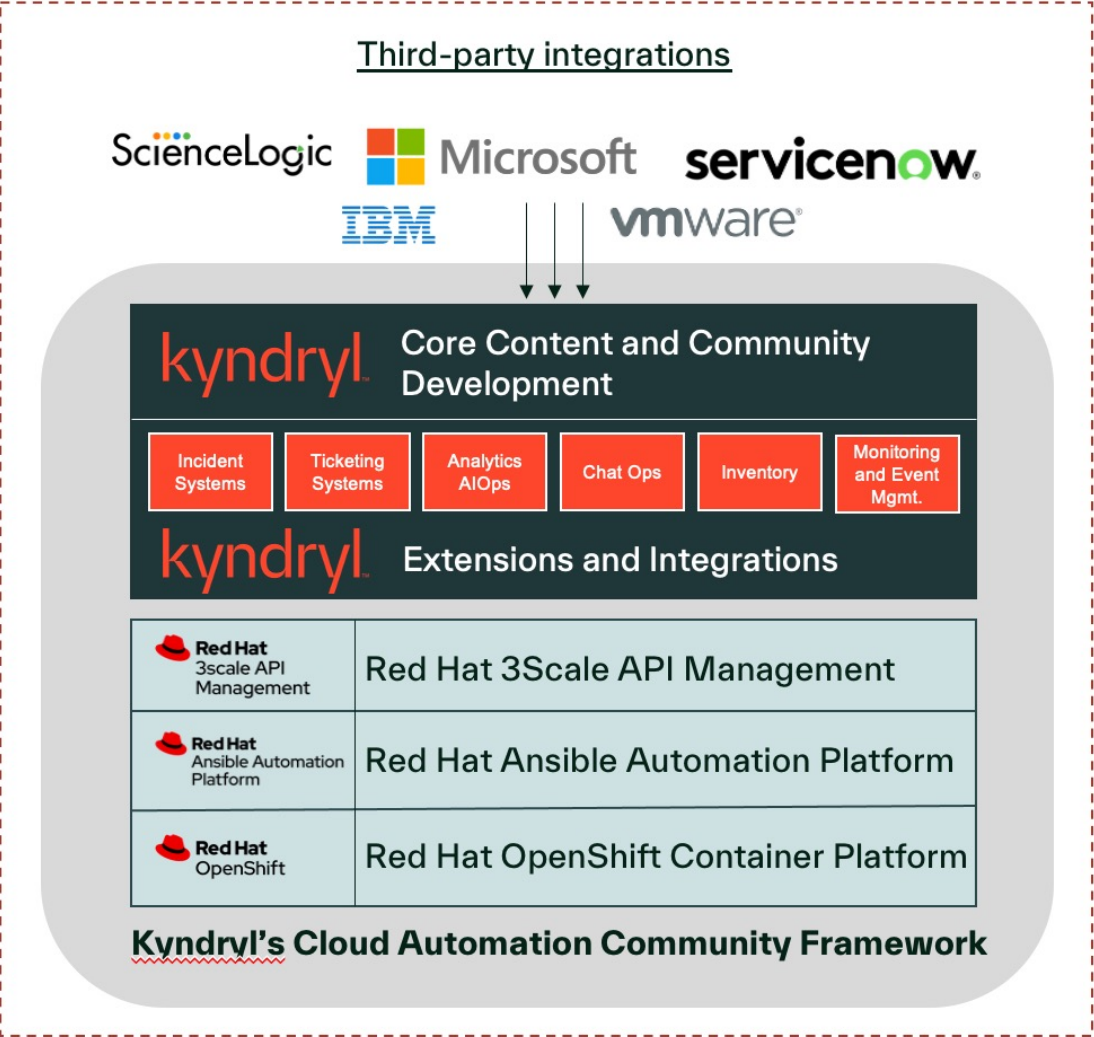
Modern enterprises require Intelligent Automation across its estate to enable efficiency, agility, & client satisfaction

Kyndryl Automation Reference Architecture

Automated, Orchestrated, and Intelligent; Moving Us to Zero Touch Principles



# Kyndryl's Cloud Automation Community Framework (CACF)



## Capabilities

- Automates Day 0, 1, & 2 manual processes for zero touch approach
- Self Heal accelerating productivity and problem resolution
- Incident Remediation, Patch Scanning & Execution, Security & Compliance, Container & Server Build, License Management, and more
- Enables a community model, allowing faster automation deployment and customer specific content creation
- Supports both hybrid and native cloud workloads for journey to cloud

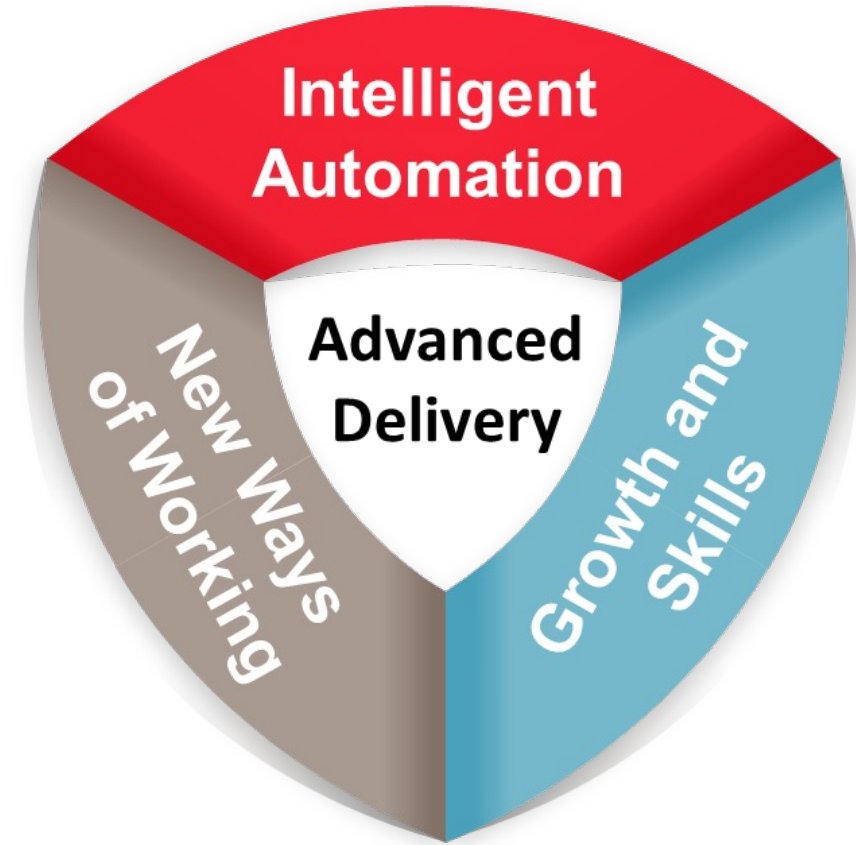
## Scale of Solution

- **Largest Ansible Implementation** today, ~600K connected devices across ~40 shared and dedicated instances worldwide
- **Tens of millions** of automations performed monthly
- **Thousands of automation modules** created via community development approach
- **Thousands of Kyndryl engineers** educated on Ansible and Kyndryl's community model

## Customer Value

- Improved speed to execute 'zero day' patching events: reduced timeframe from **72-hour cycle** to **6-hour cycle** across the estate
- Automated **all** server Health Check, Security and Compliance checks via Ansible playbooks
- Reduced incident alert volume by **30%**





## **Intelligent Automation**

AIOps and automation to drive fully integrated and proactive delivery and transformation.

## **New Ways of Working**

Agile working models to provide proactive solutions, enhanced resiliency, and meaningful innovation.

## **Growth and Skills**

Continuous modernization and upskilling to address increasing complexity and evolving business needs.

## **Outcomes**

- ✓ Improved service delivery
- ✓ Reduced downtime
- ✓ Measurable continuous process improvement
- ✓ Cost-reduction
- ✓ Improved end-user experiences
- ✓ Intelligent innovation and transformation

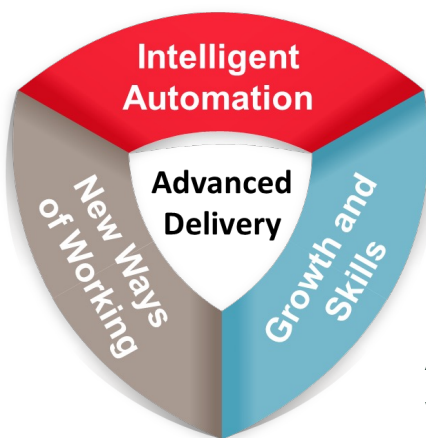


## Advanced Delivery enables our transformation from leader in Intelligent Automation to leader in AIOps

# Today

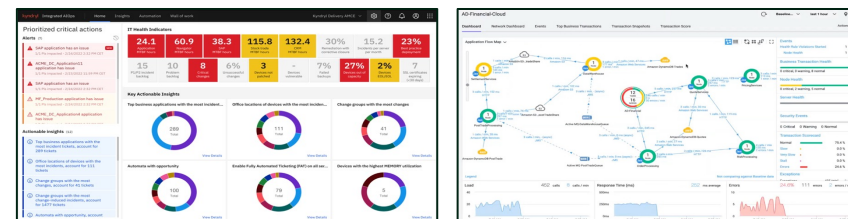
## Recognized Leader in Intelligent Automation

- **Millions** of infrastructure components and applications managed with Automation
- **600,000** Compute, Storage, Network, and more devices automated with Ansible
- **20M+ monthly automations** across day 1 and day 2 operations providing enhanced security and compliance, incident remediation, and more
- **Millions** of RPA automations orchestrating IT, service desk, and business processes
- **~2 Exabytes (~2,000,000,000 Gigabytes)** of storage managed with automation
- AIOps driven recommendations for proactive automation to reduce risks and protect IT environments.



kyndryl bridge

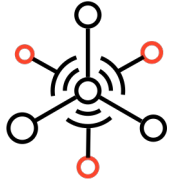
# Tomorrow



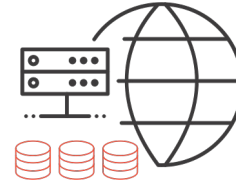
## Automated, Orchestrated, and Intelligent via Integrated AIOps

- **Instant** focus to Critical issues with zero touch fix capabilities
- **No transformation needed.** Bring your own data, define your own actionable insights and link them to automation.
- **Risk Management** by deviation of best practices (SpoF, EOS and EOL)
- **Security Management by real-time identification** of threats.
- **Observability** and **Digital Experience** Monitoring.

# Our Automation is Included in Our **BAU Delivery Operations**, and Our Scale is Unparalleled Scale in Industry



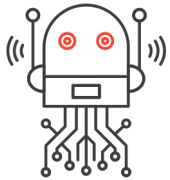
Millions of infrastructure components and applications managed with Automation  
Servers, VMs, Containers, Databases, Storage, Middleware, Network Devices, Mainframes, Applications, etc.



~600,000 Devices  
Connected to CACF (Ansible Automation Platform) for Incident Resolution, Patching, Security and Compliance, and more



30,000,000+ Automated Actions per month  
Driven through CACF automating Incident remediation, security and compliance, Asset and License Mgmt., Build, etc.



5,000,000+ in a year  
RPA process executions orchestrating IT, Business, and Help Desk processes



700,000+ servers  
Monitoring & Event Management



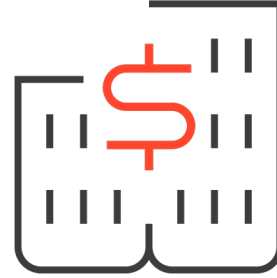
~2 Exabytes (~2,000,000,000 Gigabytes)  
Storage Managed via Automation

Kyndryl's Automation **helps clients grow** their top and bottom lines and **provides innovation**



### Revenue Growth

A large retail client was able to open stores in South America 20% faster and more securely by using Kyndryl automation.



### Profit Growth

A global shipping company was able add \$10M to \$15M in profit by using Kyndryl automation to address incident resolution, security and compliance, patching, etc. for their IT estate.



### Business Continuity

A Japan client uses our RPA solution to monitor seismic data and automatically engages resiliency protocols when an earthquake occurs.



“The dynamic automated tooling and environment created by Kyndryl and Red Hat proactively resolved repetitive tasks and automated event incident response and resolution, while consistently enabling operational improvements that ensured customer satisfaction.”

**Andy Nason, Head of Service and Infrastructure**

## Powering business growth with automation

Bord Gáis Energy, Ireland’s largest energy provider, supplies gas and electricity to over 750,000 customers.



Its priority is to help customers navigate their way to a lower carbon future with smart digital technologies.

### Solution

Kyndryl built a solution with Red Hat Ansible Automation Platform to shift the incident management workload from people to tooling. Kyndryl implemented automated Alert Monitoring and Incident Management resolution and progressively automating security code control. A new AIOps toolkit was also deployed to provide a single pane of glass view across the estate.

### Outcomes

A stable and secure platform that can handle requests for new services with fast changing business requirements—all while keeping both internal and external customers happy.

**More, better & faster, with same staff & improved cost-efficiency:**

- From weeks to 6 hours for a zero-day patch of more than 300 servers
- 40% of all incidents automatically resolved end-to-end
- 0 downtime, no business interruption

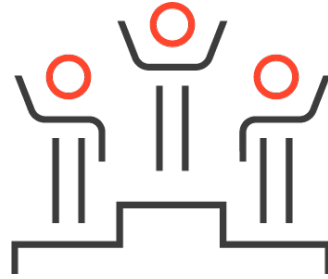
# Automation Guild and Community Team's Mission



## Quantity

Work across Delivery Centers, Practices, Countries, SREs, etc. to discover and index automation capabilities used across Kyndryl today and co-create automation where needed.

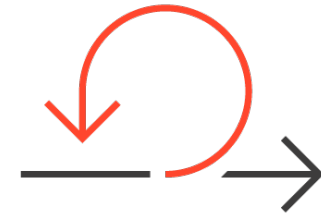
(Hackathons, incentives/badges, awards, account co-creation)



## Quality

Create and promote standards across the community to ensure the automation running in our accounts has the highest level of confidence and lowest level of difficulty.

(Automation maturity model, quality checking tools, building blocks for standard automation creation, dashboards)



## Reuse

Ensure teams can easily find and use existing automation to solve the use case. Avoid “recreating the wheel” over and over again.

(Standardized use case catalogs, search platform, newsletters, account)



# Kyndryl Automation Professional Services

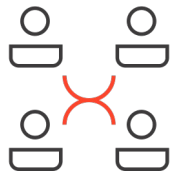
## Our values

Kyndryl Automation Professional Services helps enterprises with the adoption of cloud automation:

- Providing multi-skilled cloud automation experts across all major Hyperscalers (Microsoft Azure, AWS and Google Cloud) and private cloud environments
- Offering a rich set of Infrastructure-as-Code accelerators to help enterprises gain ~90% efficiency in provisioning virtual infrastructure needs
- Helping converge fragmented automation initiatives y enabling an automation fabric for enterprises
- Accelerating our customers' automation journey through a rich bouquet of standard ready-to-use technology agnostic automation assets
- Accelerating and integrating business processes based on customer needs through ad-hoc, custom automation



Accelerate return on cloud investments through Kyndryl's Innovative market-leading solutions and services



**Advisory  
Services**



**Implementation  
Services**



**Management  
Services**

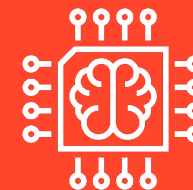
## Few Examples:



Optimized Infrastructures  
for specialty workloads  
including Edge, Big Data /  
Analytics, AI/ML and VDI



Automation Content for  
Process Automation  
Management, Cloud and Edge  
Solutions



Intelligent automations for  
Application migrations,  
modernizations and managed  
services



# Ansible Automation

Speed up automation with our Ansible Automation Journey

Validation phase demonstrates the value of our solution, aligned with your specific needs

## Kyndryl Quick Start Module for Ansible Automation

### Content



#### Automation Workshop

Understand objectives of the automation, identify 1-2 use cases



#### Proof of Value

Deploy Kyndryl Ansible Automation Platform in your environment

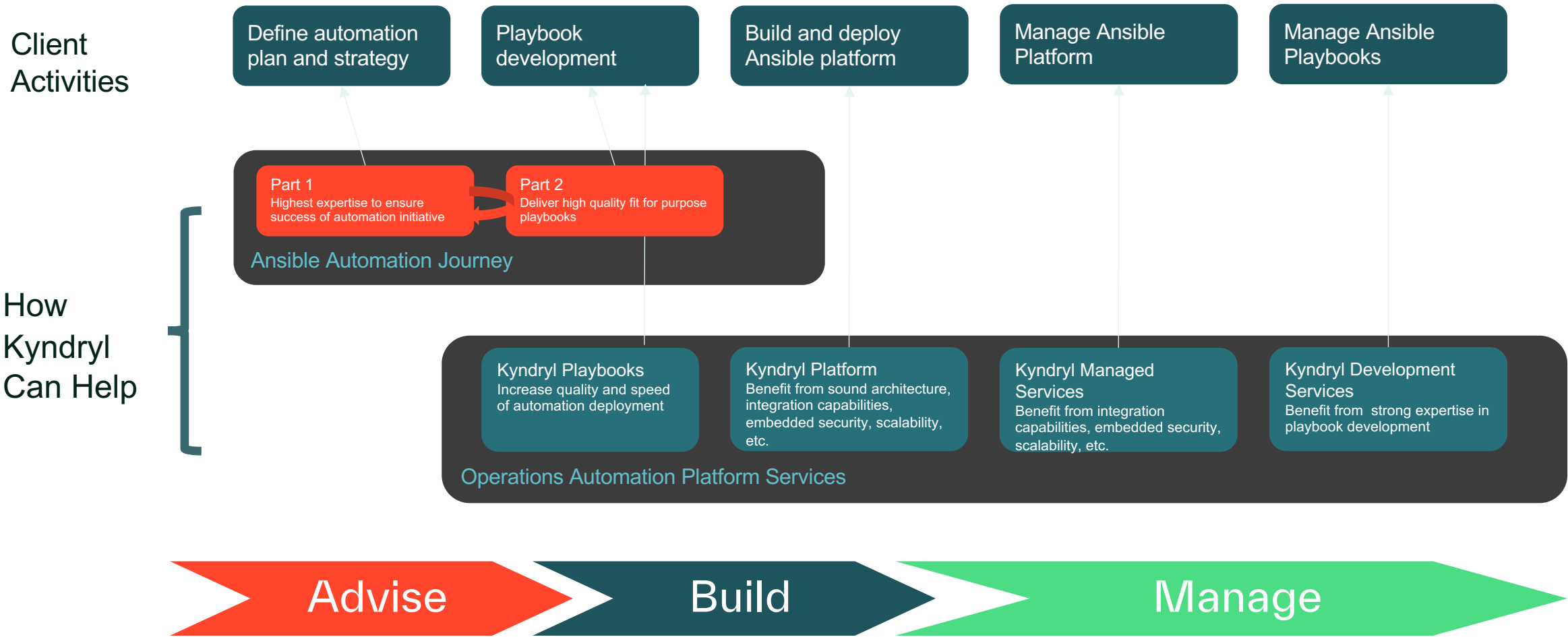
Create and deploy two automation playbooks

### Benefits

- Achieve savings and improve service quality by automating two of your use-cases
- Experience the value Kyndryl Automation Services within your own IT environment
- Understand how Kyndryl expertise can help you on your Automation Journey

# End-to-end journey of our customer with Kyndryl Automation Platform Offering

## Quick Start Module - Ansible Automation



# Kyndryl Automation offerings with Ansible focus

## Quick Start Module - Ansible Automation

### Ansible Automation Journey (AAJ)

(Advise pillar offering)



Provide clients a systematic adoption plan for Ansible automation using Agile methodologies and help establish a proof of value (POV) setup for initial automation use cases (MVP)

---

### Operations Automation Platform Service (OAPS)

(Build & Manage pillar offering)



Operations Automation Platform Services offering enables clients automate IT Operations service workflows & tasks in their hybrid Multicloud environments using Red Hat Ansible Automation Platform

The Kyndryl **Quick Start Module for Ansible Automation** provides you with an avenue for heralding an automation culture to your IT Operations team



Why this is important now?

- The size of IT is expanding while the size of IT Operations Organizations are shrinking, automation is the only way to keep up
- Traditional, proprietary IT automation tools encourage lock-in and enforce legacy processes
- Ansible allows you to harness the work of thousands of OpenSource developers and build a culture of Site Reliability Engineering (SRE) and DevOps
- Without assistance, experience and consultant guidance this voyage can take months or years to develop, sacrificing a competitive edge

**Make the first win in your automation journey a big one. Kyndryl will install Ansible and complete one of your biggest automation challenges:**

- One less headache, and the foundation to build your new DevOps culture
- Expand that foundation by providing a backlog of automation opportunities.

## Key Business Benefits

- A jumpstart in adopting Ansible automation with a minimal investment
- Speed & Agility that allows developers to integrate with their existing DevOps environment
- Provide an open, secure, portable platform for flexibility, security and scalability





Thank You