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Kyndryl Power Move to Azure/

with Skytap

10/10/2022

Enterprises have been increasing their cloud environments, but **Power has** mainly been on-premise until recently with efforts to increase business efficiency & efficacy due to costs, regulations, and business modernization Microsoft

Cloud = IT

" Cloud is no longer just 'someone else's computers.' It's not a place to get cheaper server and storage capacity. It's not even a place. It's now shorthand for the broad collection of tools, services, patterns, and practices you'll use to transform how you build, deploy, and manage software.

Year by which the **Climate Neutral Data Centre Pact** aims for data centers in Europe to be *climate-neutral* as tech is increasingly becoming a primary CO2 emitter¹

2030

"Viewing 30 minutes of Netflix emits the same amount of CO2 as driving nearly 4 miles"³



Of Enterprises state:

"Restructuring their IT financial footprint and shift from capex to **opex** model"

Is the main technology driver for utilizing cloud managed services.

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Source: 2021 Managed CloudView, July 2021 Survey Question: . Which two of the following do you believe are the ¹Energy Statistics and Data primary BUSINESS/Technology drivers in utilizing managed cloud ³The Shift Project Report services? (n=1,500)

Today's Challenges



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Cost

- High CapEx for on-prem data centers, having to renew them every 5 years
- High energy & maintenance cost
- Downtime and Data Recovery could be financially detrimental: \$300K/hr \$5 Million/hr³

Regulations

• Several programs, initiatives, and regulations are forcing/compelling businesses to rethink where their power lives and operates: American Recovery and Reinvestment Act, National Data Center Energy Efficiency Information Program, Federal Energy Management Program (FEMP), Climate Neutral Data Centre Pact, Energy Act of 2020, etc.

Modernization

• As majority of business environments are moving/living in the cloud, there is little improvements made for onprem power for efficiency, app integration and data insights, and new capabilities & business alignments

Security

- 70% of businesses rate their OT/ICS security as high or severe risk, up from 51% in 2019¹
- 48% of businesses didn't even know they suffered a cybersecurity incident¹

Scalability & Elasticity

• Demand for public cloud-based enterprise applications is expected to produce a five-year compound annual growth rate (CAGR) of 13.6%, surpassing the 6.7% CAGR for the overall market and overtaking on-premises software in the next several years²

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Quick Recap on AIX/POWER

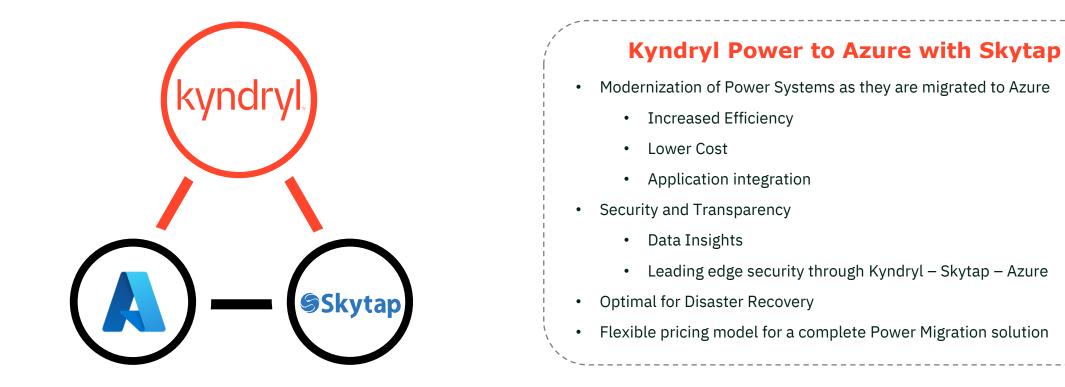
- AIX is an UNIX Operating System developed by IBM
- Enterprise grade with several features for scalability, reliability and high availability
- Kyndryl provides 24x7 service and support for AIX for critical workloads
- Support for the latest industry technologies such as "Live partition mobility", "Active Memory expansion", Virtualization, Capacity on demand etc.
- Long support life cycle (10+ years) and optional extended support beyond end of life (3+ years)
- Latest version of AIX is 7.2 released in 2017, AIX 7.1 in 2010, AIX 6.1 was released in 2007
- AIX runs only on POWER servers which use PPC processor architecture
- POWER Servers are built for high degree of redundancy and resiliency, targeted to large enterprise workloads.
- POWER9 was released in 2017
- POWER8 was released Mid 2014
- POWER7 was released in 2010
- AIX 7.1 and POWER7/POWER8 are most widely used in the customer environments. But very few customers have fully moved to AIX 7.2 and POWER9.
- There are legacy workloads on AIX 6.1 or even AIX 5.3.

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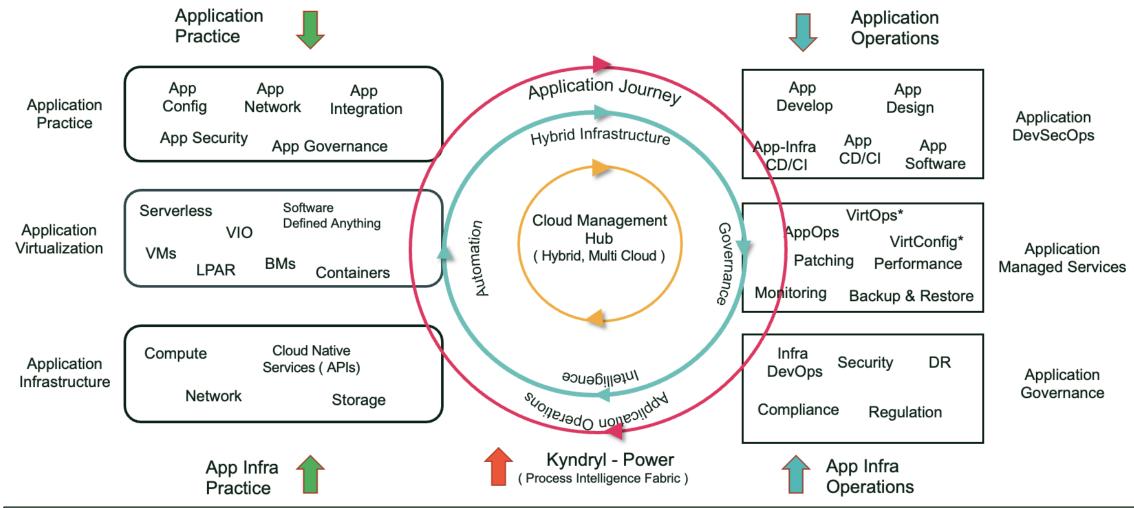
Kyndryl's Solution

Kyndryl can move Power workloads via Skytap in an OpEx fashion, and integrate workloads with Azure services, utilizing the Kyndryl's Azure expertise to modernize and manage a client's environment





Kyndryl's Power – Process Intelligent Fabric for hybrid and multi cloud environment.



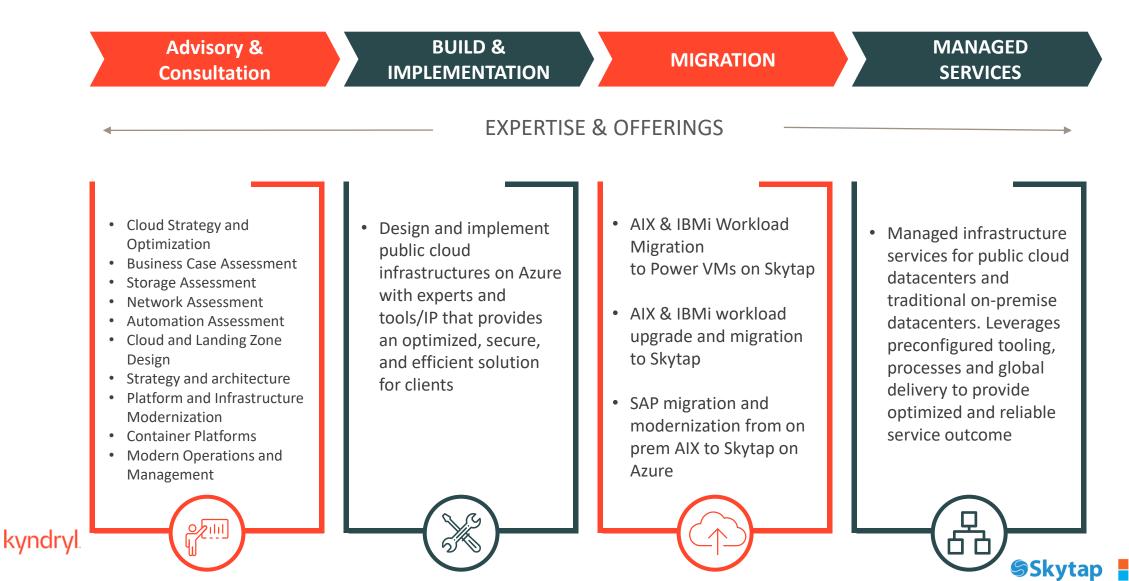
Kyndryl process intelligent fabric provides a reference architecture and solution presented aims to differentiate and define sustainable organization's hybrid, multi-cloud IT for business applications.

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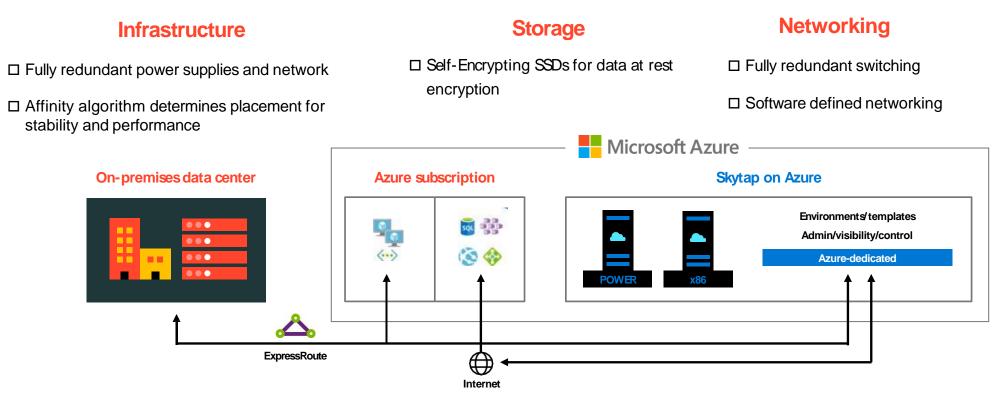
Kyndryl Process

End-to-End Cloud Power Solution



Azure

Power to Azure with Skytap: High Level Design



ExpressRoute

Use ExpressRoute to securely connect workloads running in Skytap to Azure VNets and your on-premises networks

Access Azure Services

□ Low-latency connectivity to Azure Services to extend and transform traditional workloads

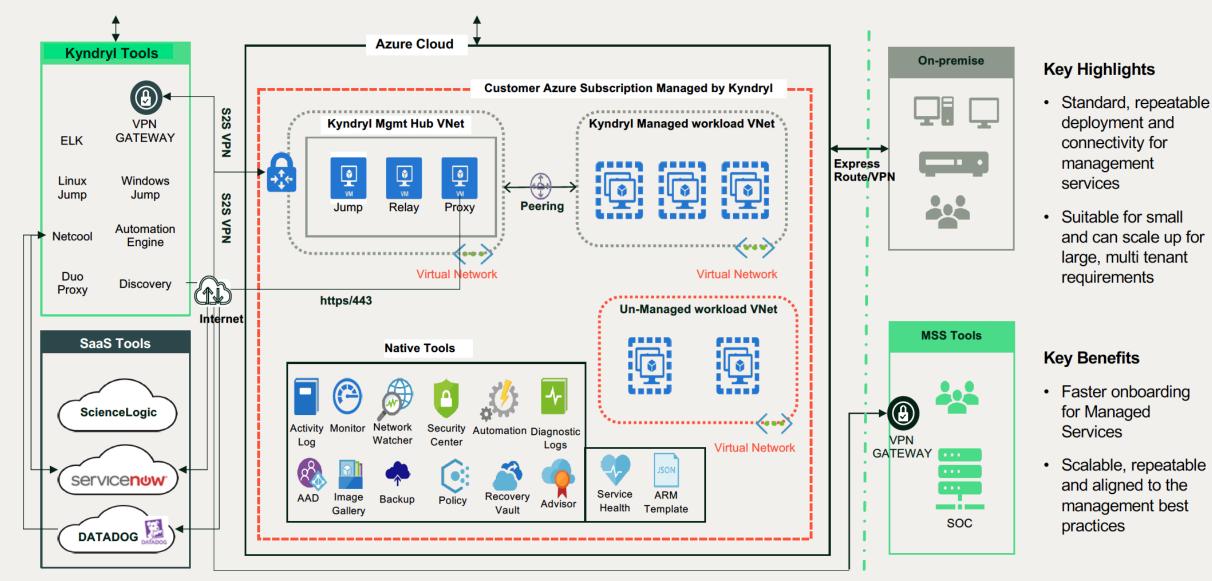
Single Sign-on

Integrated Single Sign-on (SSO)
between Azure Active Directory and
Skytap simplifies user management.



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Reference Architecture







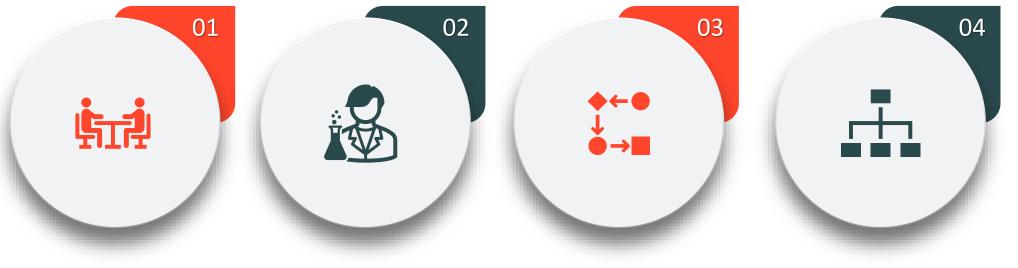
Kyndryl Engagement Process

Lab & Testing

Kyndryl will create testing environments for the client to help their decision-making on which cloud platform to utilize and how their tools and apps integrate with their existing assets

Managed Services

Kyndryl will manage the scope of the work through our patented technology and processes. Client's also will be able to manage their environment with Kyndryl's Cloud Management Platform (KCMP)



Advisory & Consultation

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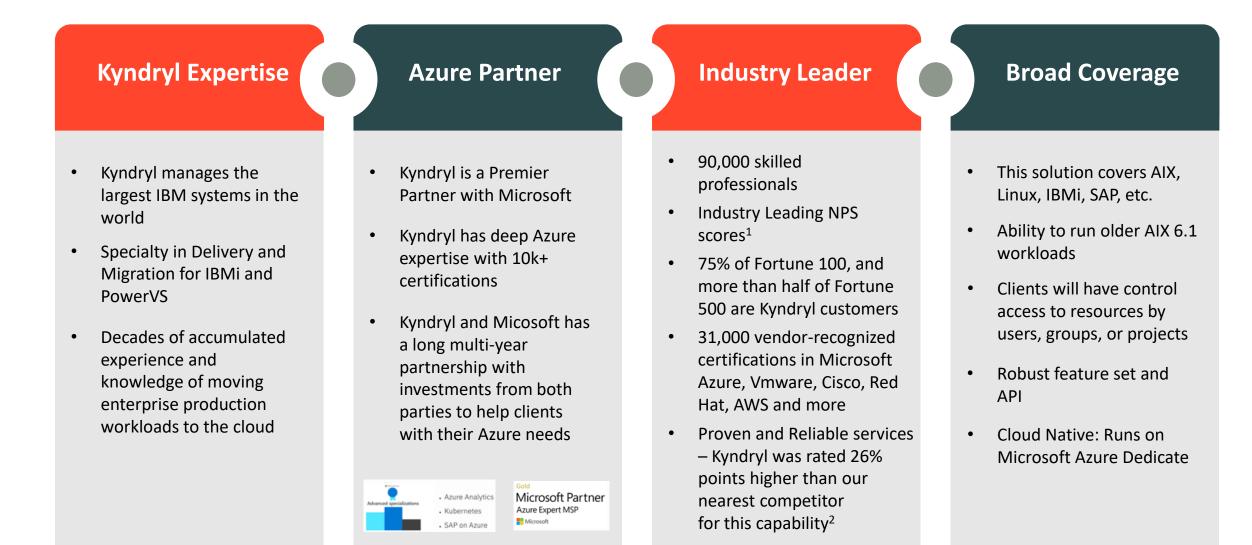
Kyndryl specialists will consult with the client to understand the scope of the work and it's relation to the overall business model and approach.

Implementation & Migration

Kyndryl's expertise and process will efficiently and effectively implement a solution for the client.



Differentiators & Value Proposition



Skytap Microsoft



Client Stories & Use Cases

Top use cases

Power workload Migration to Azure



Production

Run production AIX, IBM i, Linux, and Windows with 99.95% availability and secure connectivity to on-premises apps.



Disaster recovery

Run cold, warm, or hot disaster recovery environments to ensure business continuity.



Dev/Test

Increase developer productivity, test coverage, and accelerate DevOps adoption with on-demand application environments.



Data Modernization

Unlock additional value from your data using Data Analytics and AI.

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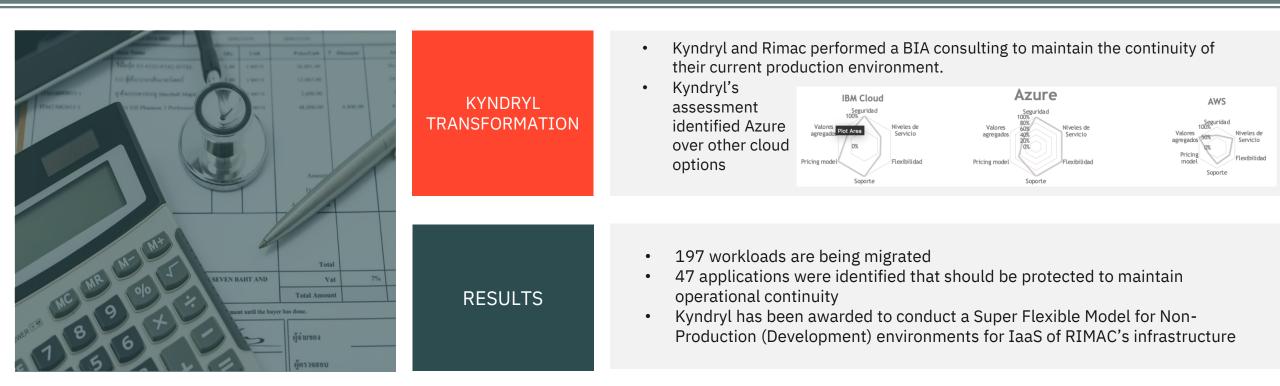
Client Story: RIMAC RIMAC

Client Context

RIMAC, based in Peru, is a premier insurance provider for Latin American markets, covering life, health, accident, home, travel, retirement, vehicle, and corporate insurances

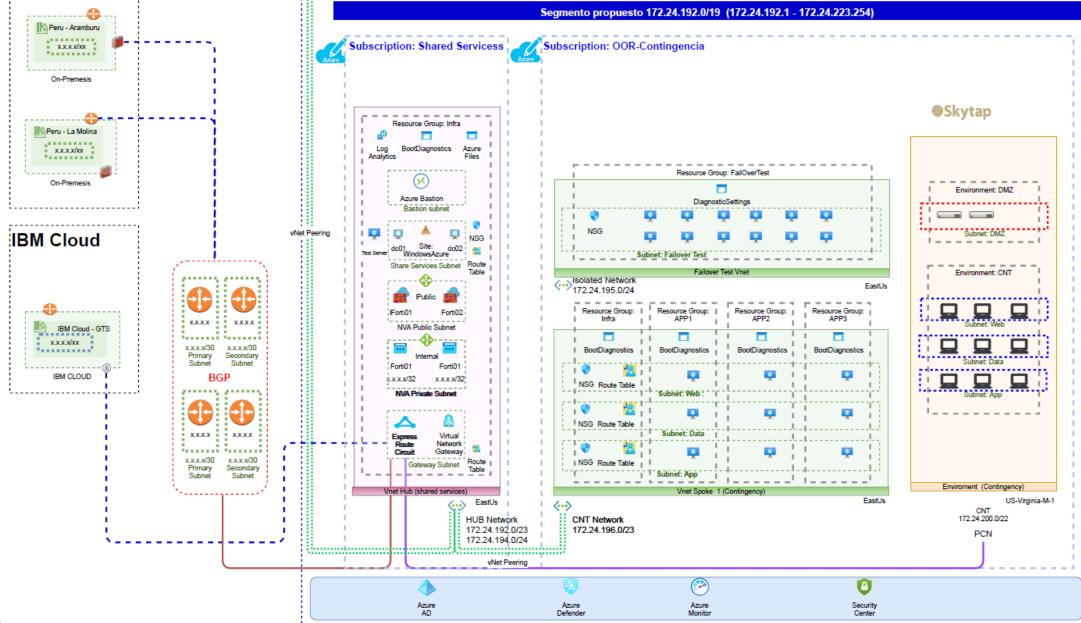
Business Challenge

• SBS regulations (SBS is the entity that regulates the insurance and banking companies), a third data center or a secondary datacenter, should be used for DR purposes. This data center needs to be located outside the city where the main DC resides. For this particular scenario, Rimac needed to host the DR workloads outside of the country



Architecture

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