Advanced Monitoring on AWS

Designing a high-performance infrastructure required for a SaaS platform on AWS platform with critical security frameworks configured to secure their code and database



A value-led Partnership

Hosting mission-critical workloads on a hyperscaler of choice with a fully-managed model creating a drastic impact on operational performance and costs with an underlying architecture designed with diligence to offer unmatched monitoring support and scalability features.

About Fractal Cognitives PTE LTD

1500+ **Employees**

\$500 mn Valuation in Sy-2019 does it all" platform called nslhub. nslhub is a Global Solution Platform that provides Version Control systems (VCS), Software as Service (SaaS). The platform is backed by years of research and extensive testing for making solutions highly user friendly.

Fractal Cognitives has envisioned and brought to life a "One

The Challenge

High Availability and Reliability

Technical teams at Fractal Cognitive were working round the clock to bring into the market a superior product that was to be launched with multi-cloud capabilities. Availability and reliability were the key requirements from a managed services partner for their dynamic compute requirements that could only be satisfied by a vendor ready to

offer 24X7, dedicated support.

Security Threats

The client was in the development phase and required stringent security measures to guard their code. Their data base had to be secured with a meticulous Privileged Access Management (PAM) that would help them condense their organization's attack surface, and prevent, or at least mitigate the damage arising from external attacks as well as from insider malfeasance or negligence.

Operations during Audits The client relied on an external

Suspension of

team for audits, resulting in not only dedicated man-hours for the activity but also frozen or slow business operations. Breaching agreements with their customers for this encumbrance which is a vital aspect of the organization had become a growing concern for the client.



High Availability Setup on AWS

The Solution

Cloud4C, as an AWS managed-services specialist, developed a robust yet simple and compliant infrastructure to resolve the existing challenges of Fractal Cognitives. They were put on a highly automated environment which was complemented with a high-performance architecture that would enable the client to reap maximum benefits from full-suite of AWS service offerings.

It was ensured that the developers in Fractal Cognitives received the comfort of generating alerts rather than

Intelligent Monitoring Capabilities

having defined thresholds with the help of predictive statistical algorithms tools such as CloudWatch. As a result of identifying anomalies, the client was able to eradicate unhealthy resources long before it required replacement. The client was able to extend increased visibility for all desired stakeholders in the system by leveraging Amazon SQS.

After holding a detailed security session, Cloud4C provided a best-in-class Host-based Security System

Personalized Security Systems

(HBSS) that provides second level defence control along with Database activity monitoring. The client's dynamic security requirements were addressed with the power of AWS Security monitoring tools as well as Cloud4C's vast experience in deploying third party security tools and technologies wherever necessary. This ensured no roadblocks occur during the development process.

Cloud4C's pre-hardened templates built to CIS standards embedded with Cloud4C best practices are ready to meet essentially any compliance/regulatory requirement without any additional improvements. This was

Enabling Continuous Compliance

accompanied with clear and secure access management based on IAM principles to ensure a smooth audit process. With comprehensive monitoring of all changes done to the network configuration through Cloud Trail and Amazon EBS and increased file integrity, the client enjoyed the benefits of shortened time to remediation and reduced audit times.

Dedicated AWS Center of Excellence

Key Accelerators

2000+ certified cloud **Certified people resources** on ITIL, COBIT, CDCP, experts worldwide with CISA, CISSP, CISM, Six local presence in 25

SOC support

countries

CEH and more

3500+ Global Enterprise

customers

Sigma, PMP CCIE, MCP,

AWS Outposts launch

partner in India

AIOps driven automation

in Cloud Operations

12 years of rich

Managed Services

Zero friction business

delivery model

Dedicated 24*7 NOC and

Cloud4C AWS Well-Architected Review

experience in Cloud and

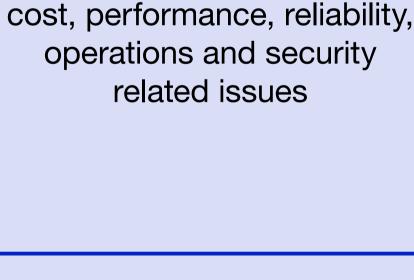
Accelerated remediation of Guidance on leveraging new Improvement of Cloud usage

AWS services, and features

that enhance the overall

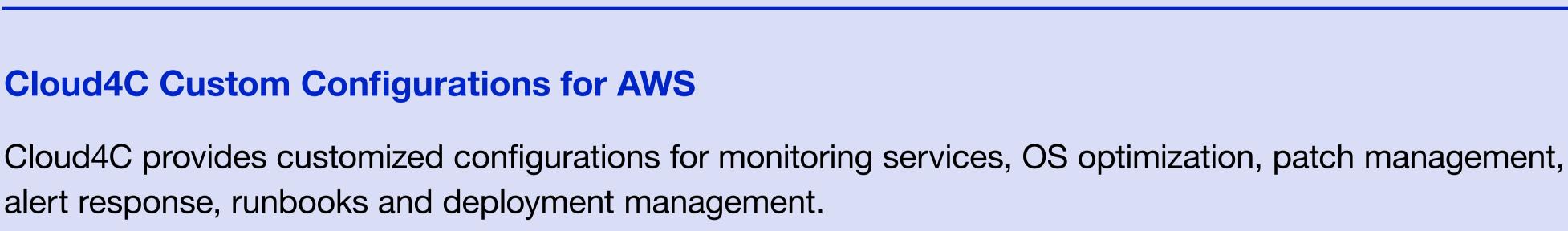
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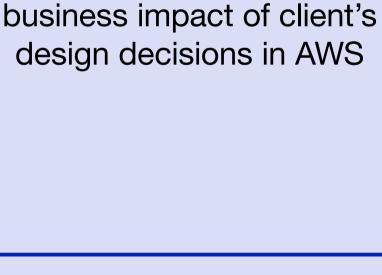
The benefits of a Cloud4C AWS Well-Architected Review to a client include:











Better understanding of the

Next Generation Security Operations from Cloud4C

automating the following functionalities.

alert response, runbooks and deployment management.

Operating from 24×7 Global Security Operation Centers, our security services are intelligence-driven-always keeping you one step ahead. Cloud4C developed the next generation SOC and a prescriptive SOC dedicated on preventing breaches from happening by leveraging big data and super-computing capabilities and



Resilience Secure CI/CD (DevSecOps)

Identity and Access Management



Results

Incident Response

Infrastructure Security



Vulnerability Analysis

SIEM and SOAR

Compliance validation

Detective Controls

Data Protection



stakeholders were

enjoying better uptime

99.95%

100%

while using the application

< 2 hrs

Average security-event response time reduced from days to less than two

threats to their

applications and data

reduction in the

operational costs as well

as maintenance costs

50%

Eliminated many labor-intensive,

manual IT-management

visibility into their cloud

environments achieved

hours

Zero

Reduced

audit times and time to

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tasks

outages and

Minimal

consumption to balance any traffic fluctuations

Optimized

performance issues remediation eased the job of support teams