Narration of presentation:

#8: Service Offering Overview

[EN: 1 Minutes, JP: 1 Minutes]

NEC India GDC having capabilities & offering around these verticals, Sharing the summary here, in subsequent slides will be discussing in details.

* OSS technology center
* Modernization with Cloud & Container
* Public Cloud
* Infra Automation
* Software Engineering

Under OSS technology center having expertise on OSS evaluations, solutioning, establish Open Source shared maintenance model. Expertise on OSS based Container orchestrator Kubernetes, Contributing in CNCF & OpenStack landscape.

w.r.t DX Modernization, Cloud & Containers poses diversified expertise on Cloud Native ecosystem, microservices, OpenShift, private & hybrid clouds, DevOps etc.

On Infra Automation part well versed with SI automation using frameworks like Exastro & Cassiopeia with the significant achievement in ROI of approx. more than 20000 hrs. expertise in using AI based automation framework ISee

On public cloud front established capabilities on overall cloud solution design, consultancy, integration, migration& orchestration on AWS, AZURE cloud

Software engineering segment application development, Tech. Investigation, Low code app development using low code platform Mendix & application maintenance etc.

#9: Cloud Service Offering

#10: Containerization Capabilities & Services Offerings

#11: DevOps Offerings

[EN: 2.5 Minutes, JP: 1.5 Minutes]

NEC India comprehensive cloud solutions ranges from highly adaptable applications to platforms and data centers — all backed by NEC wealth of global experience and expertise

* Offerings in Multi-Vendor Cloud Platforms (AWS, Azure, GCP) in all segment like Public, Private & Hybrid Cloud Services, working on all three layers IaaS, PaaS & SaaS
* Starting from Cloud Design Consultancy e.g. readiness assessment & roadmap, Re Architecting, Solution Design, System Integration, Development, Cloud Migration, Deployment, Orchestration to Managed Services & Support. Overall in all phases NECI having the capabilities.

**NECI possess vast technical capabilities in Containerization area.**

Doing Development on Container APIs, Plugin development on Kubernetes, Evaluation of OCP platforms like RedHat OpenShift Container platform on public cloud as well as on prem, Test Automation, designing container storage strategy.

* Deployment of OpenShift on multiple platforms (vSphere, OpenStack, AWS)
* Handling Support activities for OCP customers. Maintaining fully containerized platforms.
* In Containerization eco system expertise on both environments, manage kubernetes services over public cloud like EKS, AKS on AWS & Azure, OnPrem & Private cloud (OpenStack & VMware based cloud) capabilities on OpenShift, Tanzu, Rancher etc.
* On Container orchestrator Management part, we are well versed with backup recovery solution of cloud native workloads, Container network, Centralized logging & monitoring, Service mesh & Security.

**NECI DevOps Offerings in the area of DevOps Assessment & Strategy Planning, DevOps end-to-end Implementation & Infrastructure Management**

* CI-CD & SecOps with Jenkins, SonarQube, GitHub , Docker & Azure DevOps.
* On Infrastructure Layer expertise on IaC like terraform & CloudFormation for AWS, Azure & GCP.

NECI Has established expertise in **End to End Rapid Application Development using Low code platform Mendix, along with Integration & Deployment.**

**There are Advance stage discussion with NEC Japan PSBU, GIU for utilizing Mendix as development platform.**

**#14 to # 21** [EN: 2.5 Minutes, JP: 1.5 Minutes]

**#14: Phase-wise responsibility (1) & #15**

* This is one of the project case study which is aligned with the earlier mentioned cloud capabilities. NECI is involved here starting from Requirement, design, implementation to operation phases.
* This is a Smart city project where the Entire Fiware platform is migrated from On-Premise legacy system to AWS cloud.
* Here On-Prem DB migrated to AWS RDS & Containerization delivered through EKS architecture.

**#16: Phase-wise responsibility (2) & #17**

* This case study is aligned with NECI private Cloud capabilities. Setup infra lab in India with 10 compute, 3 controller & 3 Ceph nodes.
* Executed Hardware extension (2 Node Add) in the Existing infra setup. Migration from RHOSP to OpenInfra OpenStack.

**#18: Phase-wise responsibility (3) & 19**

This case study is about container capabilities

* Evaluate OCP4.x & Various services from QA POV
* Handled support queries for existing OCP customers (v3.x, v4.x)
* Design and setup the OCP cluster in Air Gapped environment , Worked with AWS provider to design & deploy private OpenShift clusters
* Created disconnected Containerized environment as they can’t let their financial application API run over the internet

**#20, #21:**

* Created a centralized **Lightweight centralized logging & monitoring solution for containerized environment.**
* Supported Multi Tenancy
* Alerting based on the logs and metrics
* Notification channels with ITSM

#23, #24, #25: NDP[EN: 1 Minutes, JP: 1 Minutes]

NECI is well versed in working with NDP solutions & offerings, facilitating the onboarding of application services in the area of identity management, Aviation, Payment etc.

Develop the microservices on com mon platform service such as **Tenant** **Management, System Monitoring, User/Auth Management, Audit Logging etc.**

* Possess the platform & mobile device Integration capabilities, On platform support part experience in Micro-service architecture, Services deployed as part of NDP Platform are loosely coupled and lightweight in nature
* Automatic deployment such as Single Kubernetes, Multi-node Kubernetes, EKS, AKS & Open Shift etc.
* **Platform Agnostic** – can be run anywhere like On-prem, Cloud instances like – AWS, Azure
* All the services deployed in NDP go through different level of **security scan like SAST, DAST, OSS scan and container security scan**

#26, #27, #28: NDP Case Study: [EN: 30 seconds, JP: 30 seconds]

This project is about the Touchless ACL implementation using NDP biometrics that is **Aramco: Identity and Access Control Platform involved starting from requirement till operation phases.**

NEC India contributed in creating NFW Adapter, Brief cam Adapter, Db Adapter to use existing data and applications as microservices & containerized workload, deployed over OpenShift On Prem.

Next Project is implemented in in HAWAii 5 major airports. NECI handled the implementation and quality assurance for elevated body temperature by notifying and generating the alerts. Integrated the Application which measures the human body temperature using thermal camera.

#30, #31: Exastro, [EN: 45 seconds, JP: 45 seconds]

NECI holds capabilities on EXASTRO OSS based Infra Auto Framework in all the three areas, **Exastro IT** Automation, Exastro OASE, & Exastro EPOCH

Involved in Key Projects

* Exastro OASE–Zabbix Integration
* Exastro–DMIC Implementation POC
* Exastro OASE–Solarwind Integration

The Significant outcome is shown in terms of ROI, like approx. 35% FTE Reduction in L2/L3 operation support.

* 20-40% Reduction in average handling time.
* Since Manual interventions is reduced there is less chance of human mistake and therefore improved 78%-97% Quality Score
* In DMIC implementation, worked in the use case of monitoring Hardware resources and self-healing part, based on the alert Exastro will perform the auto-healing. (service Down)
* Send SMS alerts, email alerts, and also Phone calls ((if required)) to Engineer to take action immediately.

#30, #31: CASSIOPEIA, [EN: 45 seconds, JP: 45 seconds]

* NECI Is well versed in implementation of CASSIOPEIA framework and generated good ROI in terms of Human efforts saving.
* Created ~260+ SI **ASSETS,** Supporting single click deployment in any flavour of infra baremetal, VMs, Cloud & containers
* Served key customer like Airport Authority of India, DPW, NECI IT etc.
* NECI is engagement with AAI for Infrastructure Automation for 93 VM’s provisioning for three Airport (PUNE, KOLKATA & VIJAYWADA)
* Manual installations were avoided as all the tasks have been automated with one click button by CASSIOPEIA and after deployment, there was zero defect in the environment.
* The entire activity was planned in a way that the first Airport took time but the rest two Airports’ deployment was done in Two days which ensures speedy delivery.
* . ROI VM deployed – 66 Hrs. ROI OSS Deployed - 224 Hrs.