DATA CENTRALIZATION & DLP

Comprehensive IT Solution for Data security

BACKGROUND

E&P Contracts are typically long-term in nature

Multiple interaction channels between stake holder generates critical information.

Information generated during various stages is crucial for compliance, regulatory, and decision-making purposes.

Investor Engagement

Award of Acreages

Approval & Clearances

Contract Management

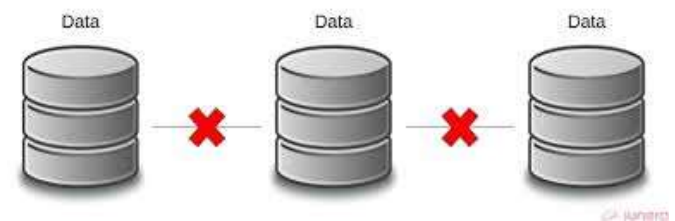Revenue Management

Data Management

CURRENT SETUP

Data resides in multiple silos often stored locally with individuals

User End points exposed to External attacks and insider threats

Business continuity is impacted in case of employee separation

Multiple versions of the same data

Data   Data   Data

Top Causes of Security Breaches and Data Breaches

TRUELIST

85%
of breaches involved
a human element

61%
of breaches involved
credentials

13%
of non-DoS incidents
involved Ransomware

3%
of breaches involved
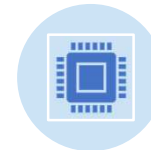vulnerability exploitation

Source: Comparitech

PROPOSED SOLUTION

Centralized Data Storage

Common End-user device management

Secured Data Backup

Data Loss Prevention (DLP) from end-user Devices

Centralized Network Attached Storage (NAS): Central storage system for critical data, ensuring easy access, management, and scalability across the organization.

Active Directory : Single-pane of glass for administering end user device policy control

Backup Storage and Software: Back up data according to industry best practices, ensuring data integrity, availability, and quick recovery in case of data loss or system failures.

Data Loss Prevention (DLP) Solution: Safeguard sensitive information by monitoring, detecting, and preventing unauthorized access, transmission, or leakage of data, both within and outside the organization.
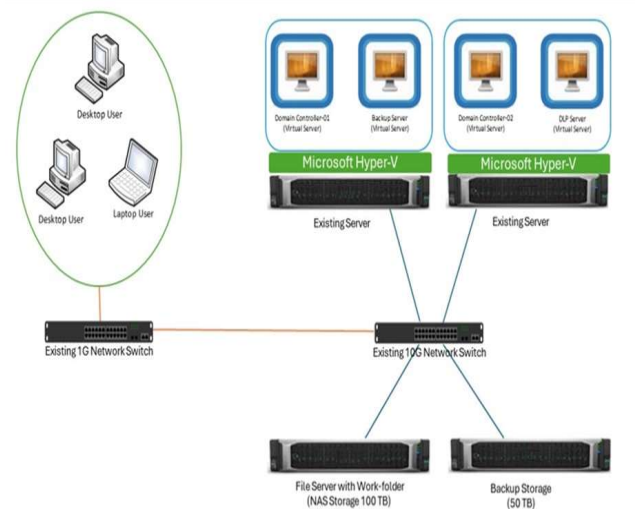
SOLUTION COMPONENTS

TECHNICAL DETAILS

NAS Storage

➤ Capacity 100TB to be configured in thin provisioning. Scalable to 200 TB

➤ WORM Capabilities with In-line deduplication and compression

Backup Solution

➤ Capacity 50 TB with ability to restore with different hardware configurations

➤ Support Cloud storage as a source input

Endpoint DLP

➤Restrict multiple egress channels like USB, printer, Web Upload, Cloud storages etc.

➤ Ability to identify User malicious activities and behavioral anomalies across channels

IMPLEMENTATION STRATEGY

Phase 1: User Onboarding and Directory Setup

- Onboard users to Microsoft Active Directory platform
- Ensure hierarchical segregation of users based on departments and functional reporting

Phase 2: Storage and Backup Deployment

- Deploy and configure Centralized NAS storage in DGH premises
- Allocate storage pools and enable auto-availability of mapped directories to respective desktop PCs
- Deploy and configure backup solution to ensure redundancy and data availability

Phase 3: DLP Solution Deployment

- Install and configure DLP solution on end-user desktops as per organization's policies
- Ensure compliance with data protection and security requirements

KEY HIGHLIGHTS

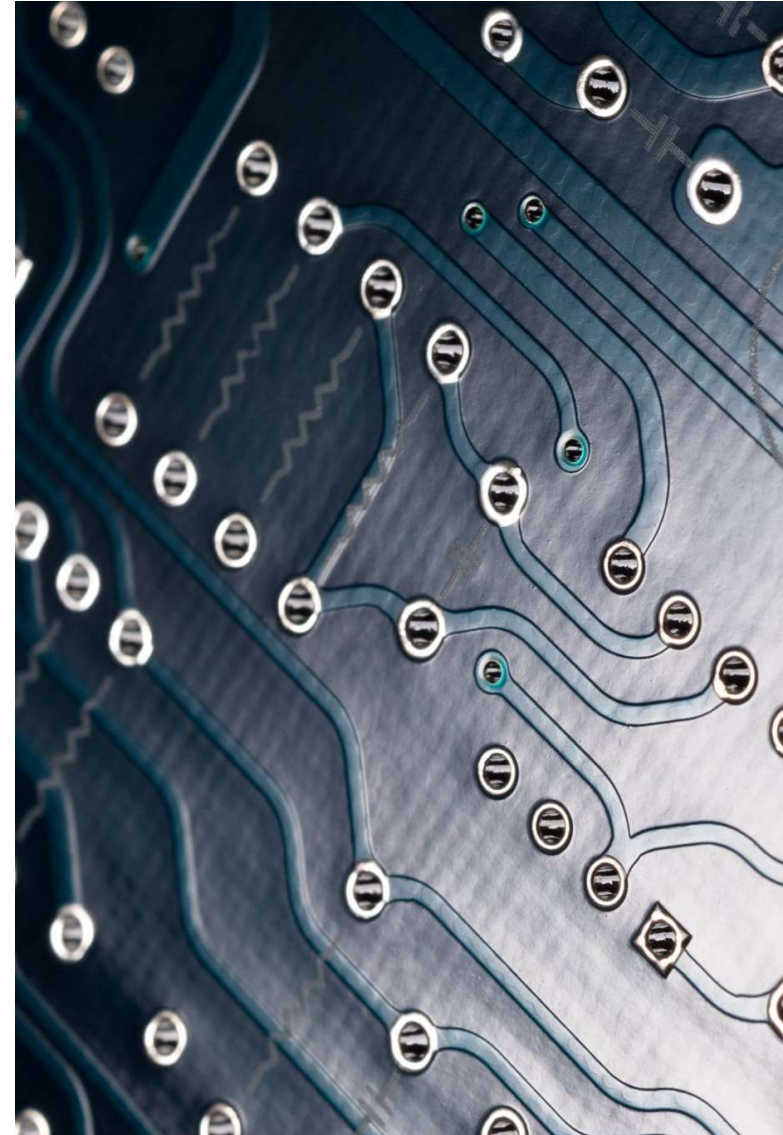❑ **Estimated expenditure ₹ 4.77 Crore**

Hardware Components to be covered under 3-year warranty and 2-year AMC

Software components to be supplied with 5-year license

❑ **Proposed to be procured via Open Tender on GeM Platform**

Pre-bid to be conducted for aligning stakeholders

❑ **AD CAL Licenses to be procured separately from GeM**

THANK YOU