**Cloud Adoption Challenges:**

**Data Migration**: Migrating data from hard drives to cloud storage is difficult as it involves huge amount of data. So it is essential to ensure efficient transfer of data from on-premises MySQL and MongoDB databases to cloud, as this can impact the data streaming.

**Security and Compliance:** It is critical to ensure Security and Compliance as the streaming service has high potential of scaling. Amazon EKS can be the best service which will meet the standards.  
  
**Migration Strategies**:

**Linux servers running Kubernetes OnPREM**: For this Migrating to Amazon EKS could be the best option. It supports various compute options and provides services like security, scalability, compliance and cost-effectiveness.

**Fleet of Hard Drives for Content Storage:** In case of larger migration using Data Migration Services would be better and in case of small migration Cloud storage import can be used.

**MySql DB for User Data:** Atlas Live Migration in MongoDB Atlas can be used.

**MongoDB OnPREM for Metadata:** Atlas Live Migration can be used to migrate from self-managed replica to MongoDB Atlas.