Approach for creating a Java Wrapper to connect to Distributed File Storage

# Background

Enrolment packets created by the client are uploaded to the landing zone. These packets, after clearing the virus scan test needs to be uploaded to a distributed file store.

The target users are

* Server Application which will process the packets

The key requirements are

* The interface to store and retrieve packets should be transparent such that packets can be stored on a local on premise storage or cloud such that the client need not know where the packet is stored
* The interface will support storage and retrieval of one packet at a time
* The storage operation should be idempotent i.e., a packet should be stored only once
* Storage and retrieval operations should be secure with authentication and authorization built in

# Solution

The key solution considerations are

* The interface for storage should be loosely coupled and not dependent on the file storage software

Packet Manager

File Storage Adapter

DFS

# Sequence Diagram

