

Gateway

Gateway

- Indexes Catalogs for search
- Federates with other Gateways
- etc....

RPC
Sending
Notifications

HTTP
Fetching
Catalog

Network

Network

RPC
Subscribe
For
Notifications

RPC
To Post
Prepared
Catalog is Ready

Security

MyProxy Client

X.509 Certs

SSL

Data Node SVC

- Encapsulates the DN MGR
- Exposing RPC delegating calls

ESG Data Node
Service

THREDDS

Live Access
Server

CDAT
NCL
Ferret

THREDDS

- Creates and Servers up catalogs for scanned datasets

Tomcat Server

File System

Data MGR

- Logs Events (since nexus of subsystems)
- Discover other data nodes

ESG
Data
Node
Manager
(DNM)

Postgres
Database

ESG Publisher

Publisher

- Scans data files writes to database
- Makes RPC call to Gateway to come and get prepared catalog

Monitor

Notification

Metrics

Replication Agent

Data MGR

- Instantiates replication agent registering itself with replication agent
- Adding itself as a listener for events

GridFTP

OPeNDAP-G2

BDM

BDM

- Uses GridFTP to efficiently push bits
- Able to use other mechanisms

GridFTP

HTTP

GridFTP

Other...

GridFTP

- Scripted downloads
- (DML)

OPeNDAP-G2

- Client analysis tools integration
- Hyrax

Replication Agent

- Makes calls on DN MGR Instance
- Subscribes as listener for events from DN MGR
- Uses BDM to move selected bits of data