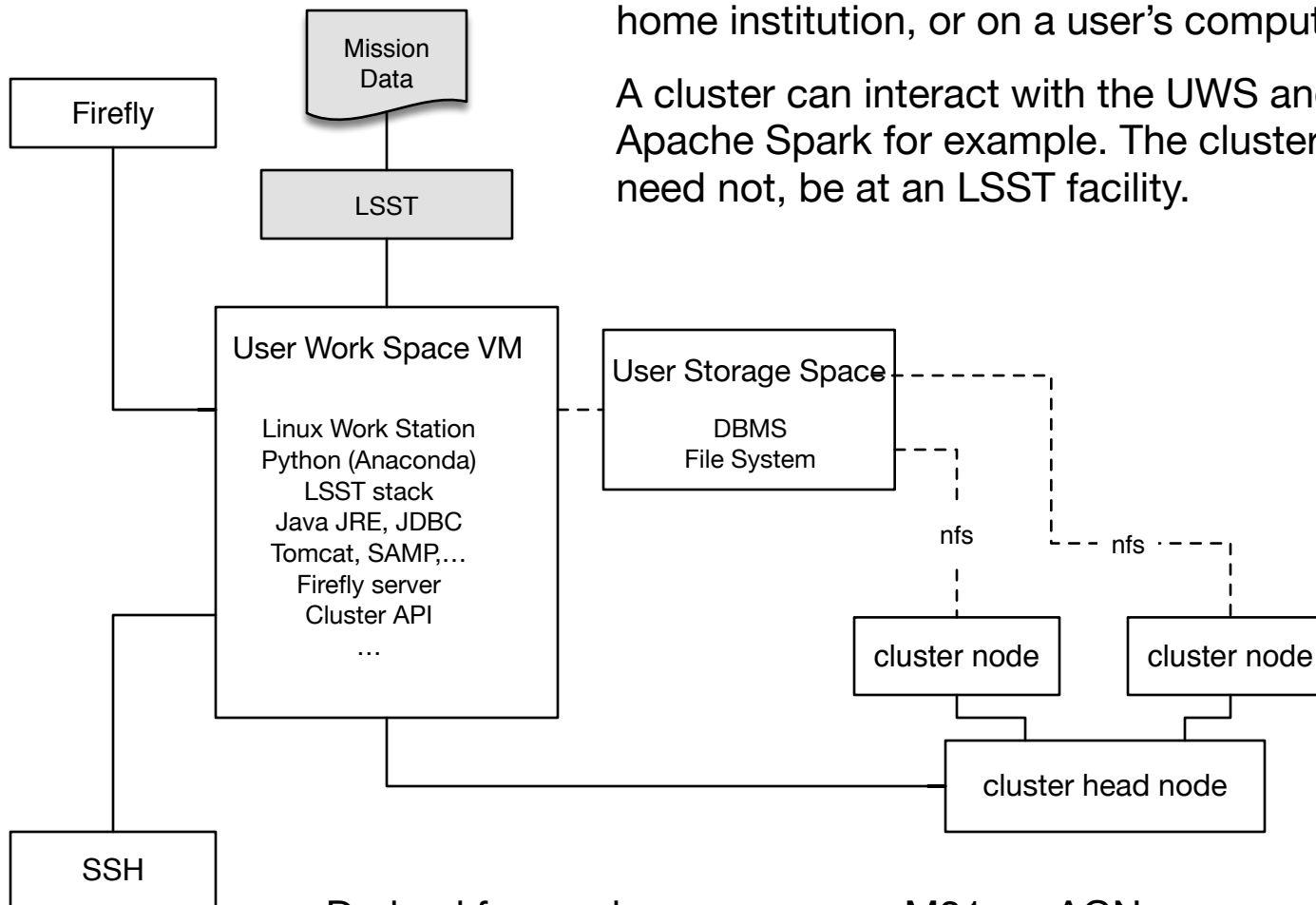The User Storage Space (USS) can be part of the User Work Space (UWS) or a network file system attached to the UWS.

The UWS is a VM or container that contains a pre-defined set of software that can be added to by the USER.

The UWS can reside at an LSST facility, a home institution, or on a user's computer.

A cluster can interact with the UWS and the USS, Apache Spark for example. The cluster can, but need not, be at an LSST facility.

Firefly

Mission Data

LSST

User Work Space VM

Linux Work Station
Python (Anaconda)
LSST stack
Java JRE, JDBC
Tomcat, SAMP,…
Firefly server
Cluster API
…

User Storage Space

DBMS
File System

nfs

nfs

cluster node

cluster node

cluster head node

SSH

Derived from science use case: M31 => AGN