

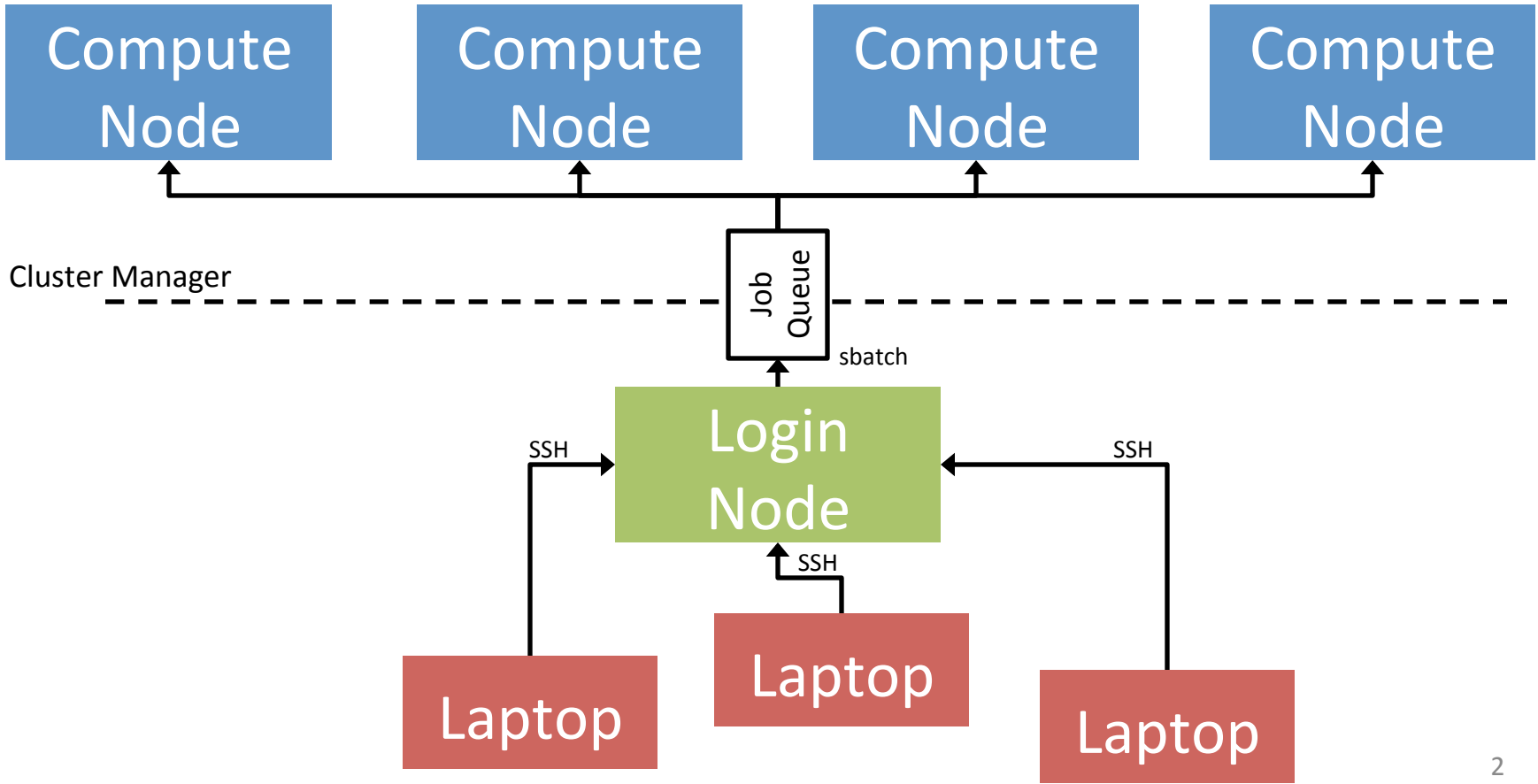
# Goals for this Lab

First chance to work on a compute cluster (NOTS).

Some helpful information on the shell.

Experiment with loop chunking and barriers in the one-dimensional iterative averaging example (Lecture 11).

# NOTS



# Shell Introduction

Lab handout includes a brief introduction to some useful commands (with pointers to other references).

No required tasks related to the shell for this lab, purely for your benefit.

Feel free to grab a TA if you have questions about the shell.

# Loop Chunking and Barriers

```
public void runSequential(final int iterations)
    throws SuspendableException {
    forseq (0, iterations - 1, (iter) -> {
        for (int j = 1; j <= n; j++) {
            myNew[j] = (myVal[j - 1] + myVal[j + 1]) / 2.0;
        }
        final double[] temp = myNew;
        myNew = myVal;
        myVal = temp;
    });
}
```

See Lecture 11 for a refresher.