

## CB-16: Build a cluster using a community guide or toolkit

A **campus IT administrator, researcher, or educator** (hereafter referred to as “builder”) wants to build a cluster similar to those used in the community using a community-provided guide or toolkit.

In most cases, the builder wants to experience it as follows.

1. First, the builder visits the community’s website, locates the cyberinfrastructure integration section (terminology may vary), and finds a guide for building a community cluster.
2. Then, the builder reviews the guide and verifies he or she already has appropriate hardware for a cluster.
3. Then, the builder downloads any materials provided by the guide (software packages or installers, system images, configuration data).
4. Then, the builder follows the instructions in the guide to construct the cluster.
5. If the builder encounters any issues, the builder files a support ticket with the community’s support service.

It will always be like this except when the builder is using cloud resources to construct the cluster. In that case, Step 2 is replaced by acquiring appropriate cloud resources (VMs, network, storage, etc.) for the cluster.

We’ll take any solution, as long as...

1. In Step 1, the builder doesn’t need to login to access the guide.
2. In Step 3, any materials provided or required in the guide are available for use with a free license.