

Beta Release

Features included in this release:

- Beta launch of hosted service
 - beta.ndslabs.org
 - Multi-node cluster on NCSA Nebula (OpenStack)
 - (Specs)
 - Gluster shared filesystem
 - (Specs)
 - TLS
 - Backup and monitoring
 - Cluster load balancer with name-based access to services (ingress)
 - Cluster logging, monitoring, alerts
- Account registration and approval
- System-wide catalog of approved tools
- Service catalog organization (tags) and new filtering interface
- Service specification improvements
 - Multiple image tags
 - Associated repositories
 - Logo
 - Filtering tags
- Personal service catalog support
 - Ability to import, export, clone, add and edit service specifications
- Per-account "home" directory mounted on every container
- Per-account resource constraints/quotas
- Console access to running containers
- Access to container logs
- Development environments
 - General: Node Js, Go, Python
 - Application-specific: Clowder, pyClowder
- Build/run workflow
- Integrated file manager
- Remote access (ssh tunnel over http)
- Ability to customize services (e.g., override configuration settings)
- New data tools:
 - TBD
- Local Docker registry

Primary components

- Docker
- Kubernetes
- Etcd
- API Server
- Command line interface
- Web UI
- Gluster FS servers
- Nginx ingress load-balancer
- Grafana/Kibana