

NDS Labs - Developer Support

- [Sign-Up / Sign-In](#)
- [Dashboard](#)
 - [Dashboard w/ External File Manager \(i.e. Cloud9\)](#)
 - [Integrated File Manager \(Optional\)](#)
- [Environments \(DevEnvs\)](#)
 - [Open Environment Instance](#)
 - [Cloud9 IDE](#)
 - [VS Code](#)
 - [Jupyter](#)
 - [Rstudio](#)
 - [Other Options](#)
 - [Fiddles](#)
 - [Non-Options](#)
 - [Non-IDEs](#)
 - [Extinct \(Dead Links\)](#)
 - [Cloud-Only Models](#)
 - [View Environment Instances](#)
 - [Create new Environment Instance](#)
 - [Configure Environment Instance](#)
- [Applications \(Stacks\)](#)
 - [View Applications](#)
 - [Stopped Applications](#)
 - [Running Applications](#)
 - [Launch Stopped Application \(Start Stack\)](#)
 - [Shutdown Running Application \(Stop Stack\)](#)
 - [Configure \(New Application / Edit Stopped Application\)](#)
- [Catalog](#)
 - [View Catalog Entries](#)
 - [Create / Edit Catalog Entries](#)
 - [Export Catalog Entry \(Share\)](#)
 - [Import Catalog Entry](#)
- [Historical](#)

Sign-Up / Sign-In

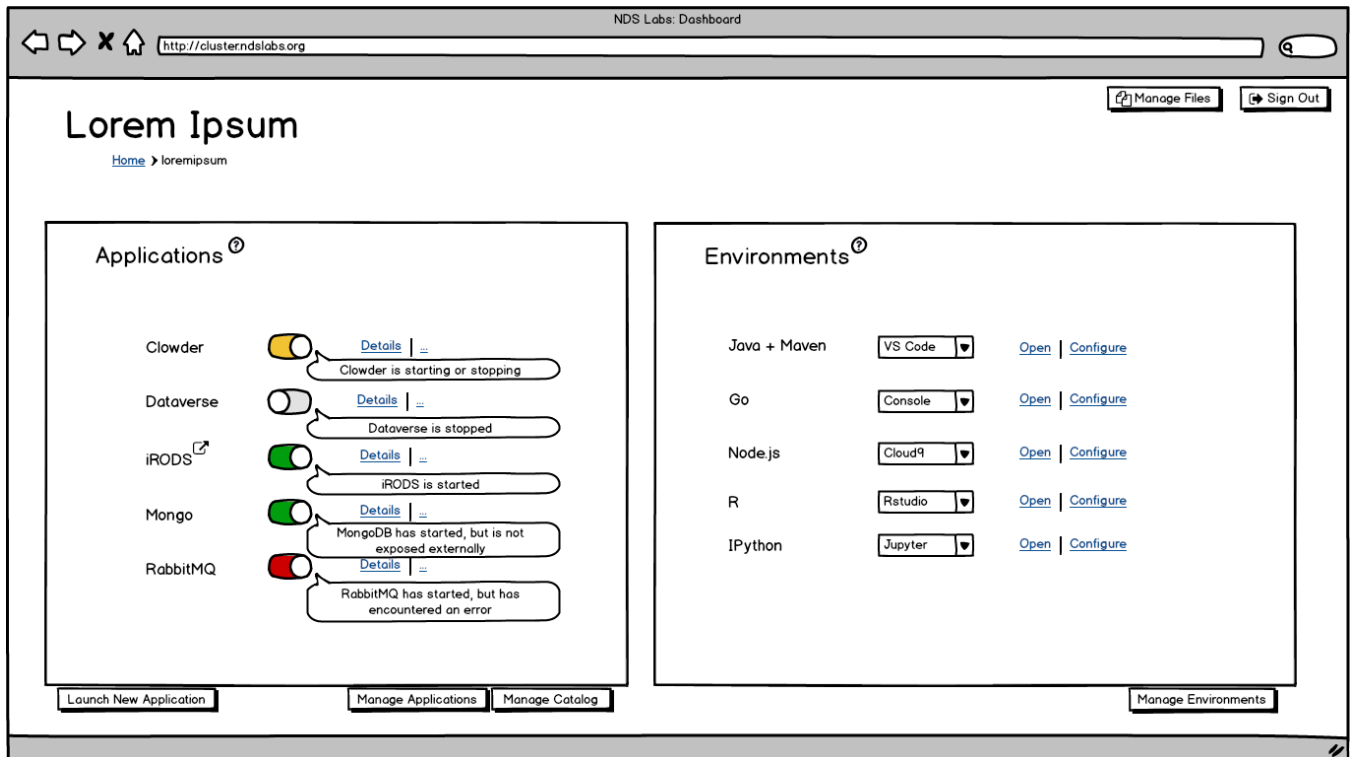
See [Developer support in NDS Labs](#)

Dashboard

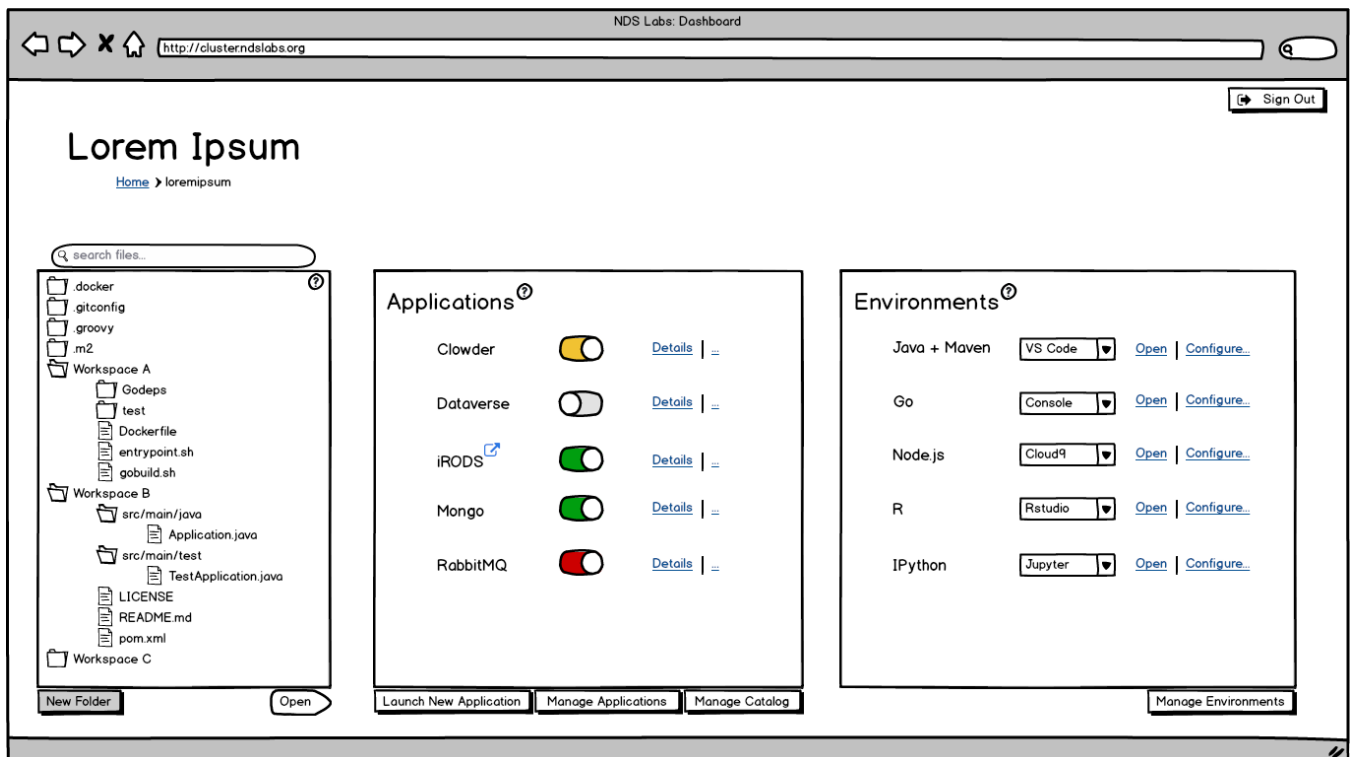
Available functions:

- [Manage Files](#)
- [Manage Account](#)
- [Manage Catalog](#)
- [Manage Applications \(Stacks\)](#)
 - [Launch new application \(i.e. MongoDB, MySQL, RabbitMQ, Clowder, iRODS, etc\)](#)
 - [Start / Stop single application](#)
 - [Configure single application](#)
 - [Navigate to "Manage Applications" view](#)
 - [Navigate to "Manage Catalog" view](#)
- [Manage Development Environments](#)
 - [Choose editor of choice \(i.e. VS Code, Cloud9, Rstudio, Jupyter, etc\)](#)
 - [Open development environment \(i.e. navigate to editor of choice\)](#)
 - [Configure single environment](#)
 - [Navigate to "Manage Environments" view](#)

Dashboard w/ External File Manager (i.e. Cloud9)



Integrated File Manager (Optional)



Environments (DevEnvs)

Available functions:

- Open an existing environment
- View / Edit existing environments

- Choose a pre-built environment
- Create a custom environment
- Mount user directories to environments

Open Environment Instance

Cloud9 IDE

See <http://141.142.208.180:6080>

VS Code

See <http://141.142.208.180:6080>

Jupyter

See <http://141.142.211.192>

Rstudio

See <http://141.142.211.192>

Other Options

- X11 + IntelliJ / Eclipse / Net Beans / any other linux desktop editor
- Console (vi / emacs / nano / pico / any other command-line editor)
- [Codiad](#) ([Docker Image](#) available)
- [CollIDE](#) ([Video here](#), [source is available](#))
- [Eclipse Che](#) ([source is available](#), [many Docker Images](#) available)
- [Orion](#) (Eclipse, [source is available](#), [Docker Image](#) available)
- [Dirigible](#) (Eclipse, [source is available](#), [Docker Image](#) available)

Fiddles

- [There's A Fiddle For That](#)
 - [JS Fiddle](#)
 - [Go Playground](#)
 - so many more

Non-Options

Non-IDEs

- [Firepad.io](#) (simple serverless collaboration tool, [source is available](#))

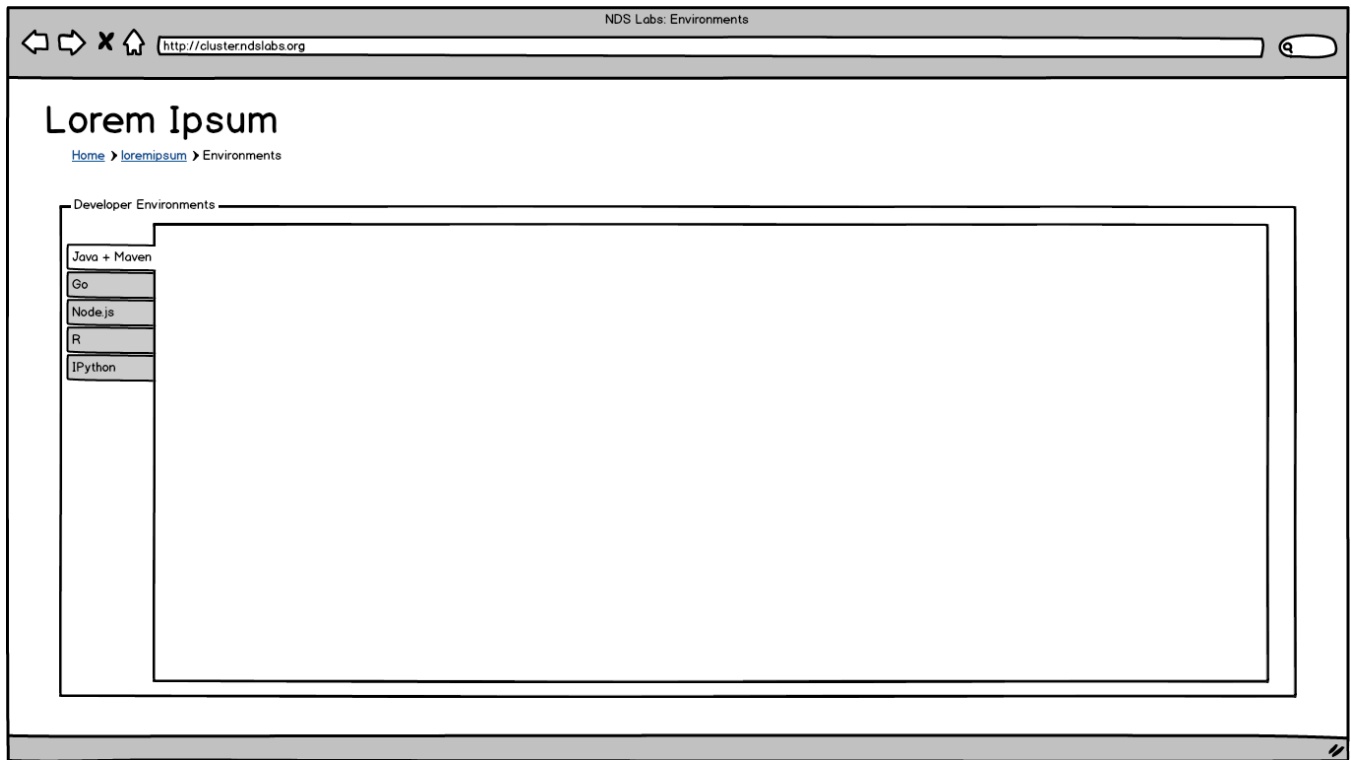
Extinct (Dead Links)

- [Neutron Drive](#) (extinct, but [source is available](#))
- [Elix](#) (JavaScript-only is a bummer, possibly extinct)

Cloud-Only Models

- [Codenvy](#)
 - [Codenvy Beta](#) - slightly better, no more runners, more like Cloud9
- [Cloud9 Hosted](#)
- [Koding](#) (they don't host - AWS / GCE only)
- [CodeAnywhere](#) (very bare-bones, although FTP support was cool)
- [StackHive](#) ([not free](#) / [not open-source](#))
- [CodeTasty](#) (CSS / HTML / JavaScript-only)
- [SourceLair](#) (no test / runtime support, just editing and possibly compiling)
- [Visual Studio Online](#) (VERY thorough, but totally feels like a Windows application..t
 - this one even offers project management / planning tools

View Environment Instances



Create new Environment Instance

Configure Environment Instance

Applications (Stacks)

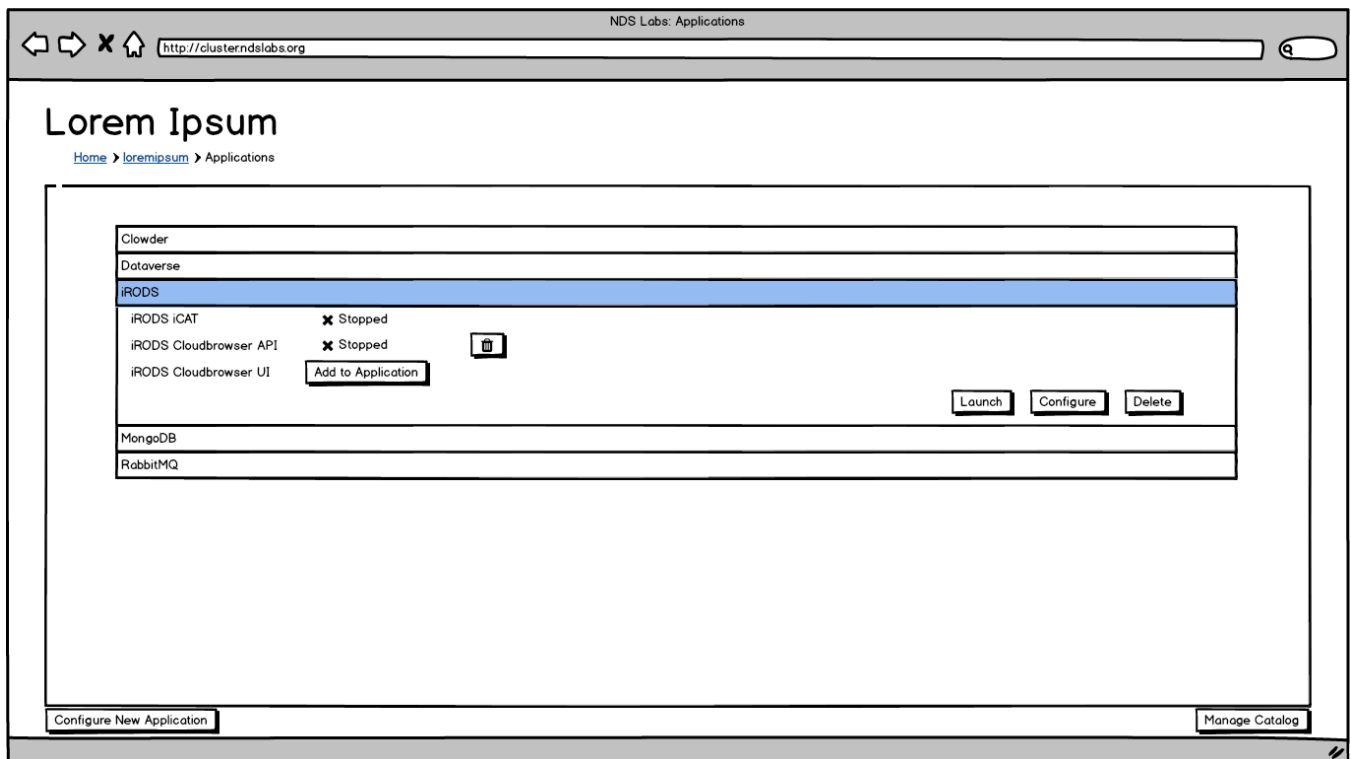
Current Labs dashboard (more or less)

Available functions:

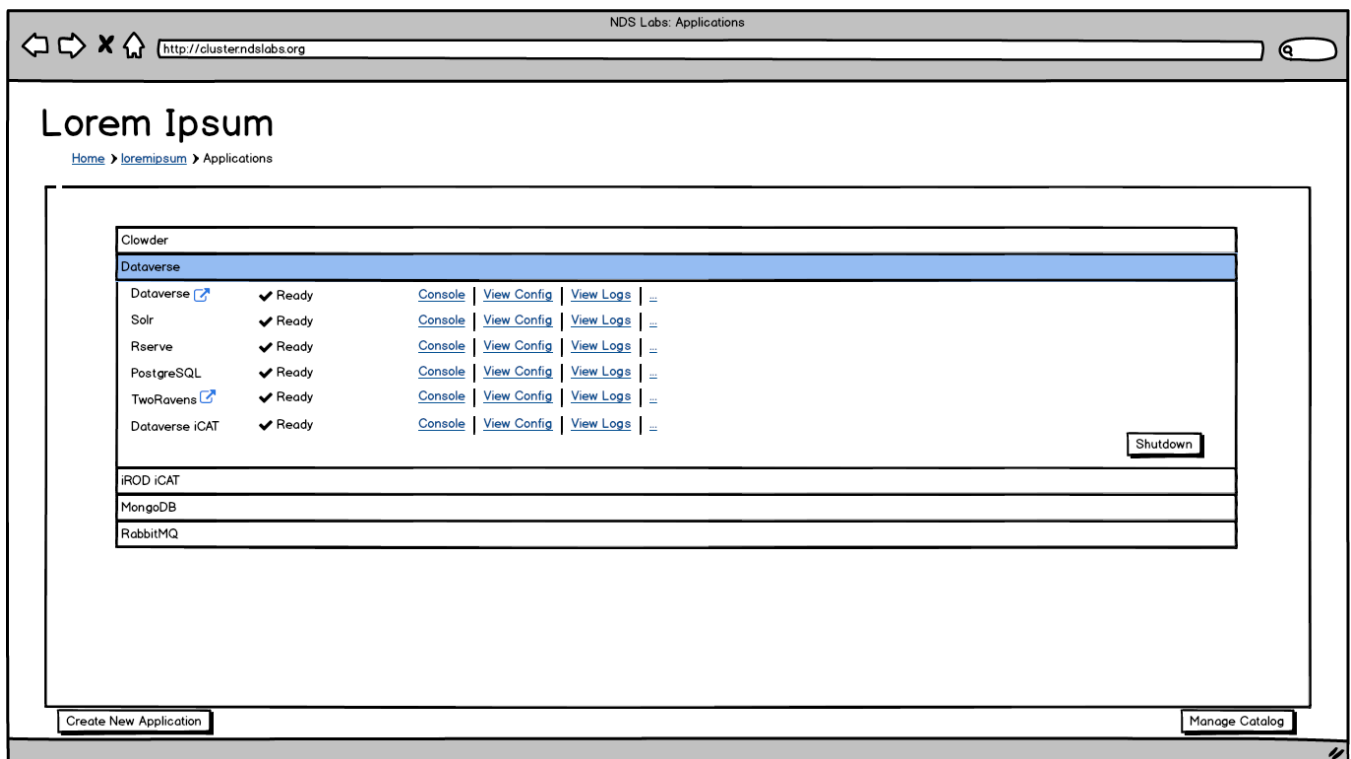
- Search / browse spec catalog for launch candidates
- Launch / configure new stack
- View / edit config of existing stack
- Open a console / logs for a running stack
- ~~Manage volumes~~ (this goes away, dashboard now manages user's volume)
- Delete stack / ~~volume~~

View Applications

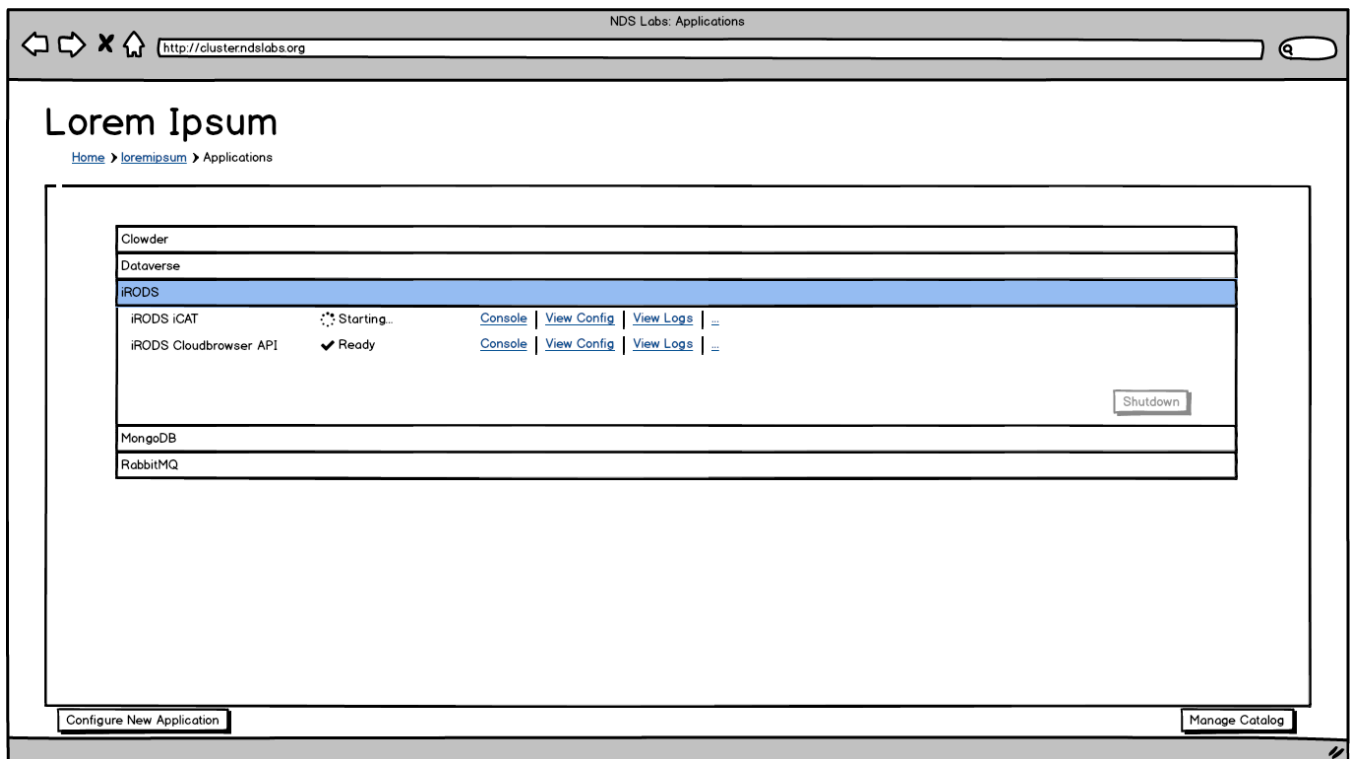
Stopped Applications



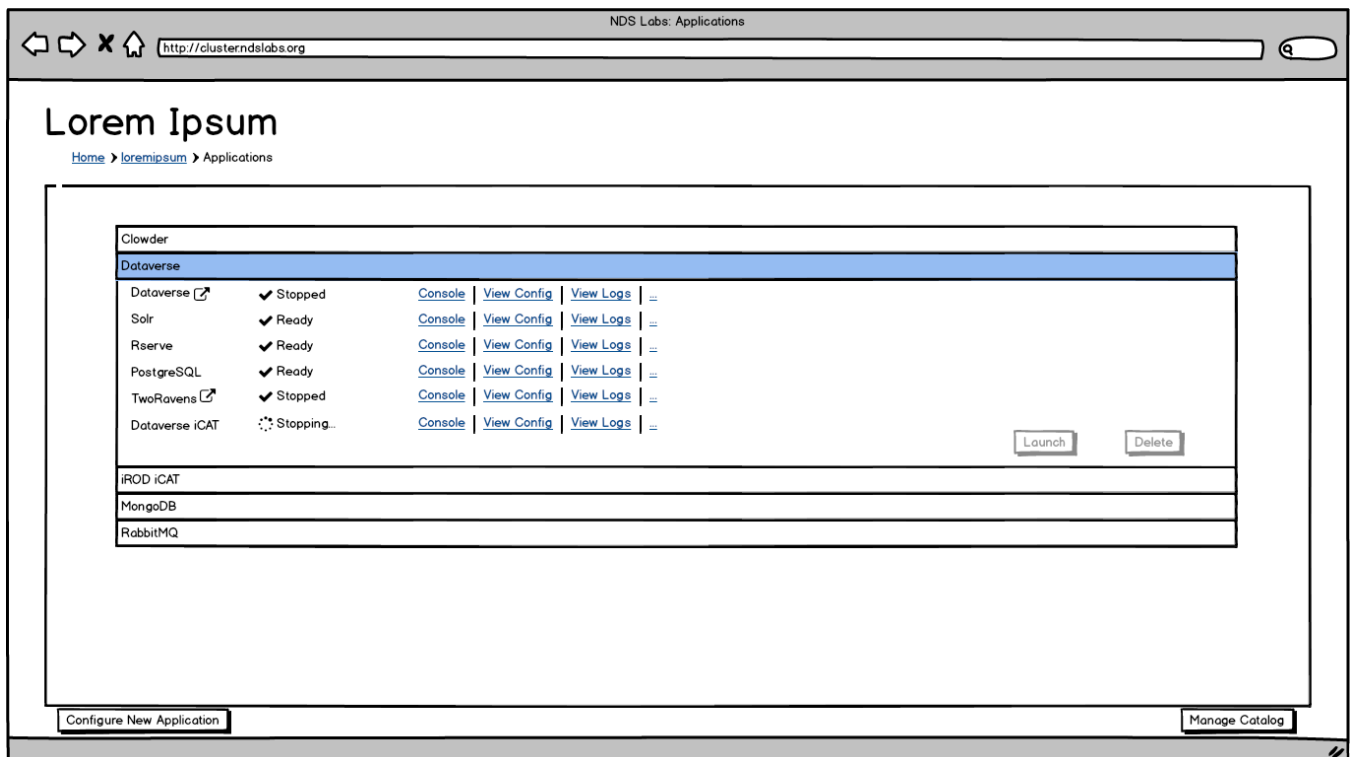
Running Applications



Launch Stopped Application (Start Stack)



Shutdown Running Application (Stop Stack)



Configure (New Application / Edit Stopped Application)

Configure Application

Select an application to launch:
Clowder

Clowder

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras gravida nulla risus, vel efficitur odio pretium quis. Nunc laoreet feugiat scelerisque. Nullam vitae orci tincidunt ipsum mattis fringilla luctus vel tortor. Integer est est, ornare a lacinia id, posuere nec nisl. Maecenas sagittis tempus metus, vel luctus lacus elementum id. Maecenas dapibus sapien ut dui venenatis pellentesque. Nunc porta commodo risus non varius.

Name Your Application (optional)

Dependencies

☒ MongoDB
 ☐ Elasticsearch
 ☒ Image Preview Extractor
 ☒ Image Metadata Extractor
 ☒ PlantCV Extractor
 ☐ Speech2Text Extractor
 ☒ Video Preview Extractor

Exposure

☐ Internal
 ☒ External

☐ Internal
 ☐ External

☒ Internal
 ☐ External

☒ Internal
 ☐ External

☐ Internal
 ☒ External

☐ Internal
 ☐ External

☒ Internal
 ☐ External

Configuration

Property	Value
SMTP_HOST	smtp.ncsa.illinois.edu
ELASTICSEARCH_CLUSTERNAME	clowder
RABBITMQ_EXCHANGE	clowder
TOOLMANAGER_URI	http://localhost:8082

Cancel
Finish

Catalog

Available functions:

- Browse specs in catalog
 - Select a spec to view verbose detail
 - Add / Import new specs
 - Edit / Share existing specs
 - Clone / Override existing specs

View Catalog Entries

NDS Labs: Catalog
http://clusterndslabs.org

Lorem Ipsum

[Home](#) > [loremipsum](#) > Catalog

- Clowder
- Dataverse
- Elasticsearch
- iRODS iCAT
- Kibana (ELK)
- Image Preview Extractor
- MongoDB
- PlantCV Extractor
- RabbitMQ
- Video Preview Extractor

Add Spec
Clone
Import

Clowder

Export

NameClowder

DescriptionLorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus leo ipsum, dapibus id tristique et, pharetra ut neque. Quisque egestas mauris purus, eget ultrices sapien suscipit non. Sed dapibus sed dolor at imperdiet. Etiam lacinia dictum ipsum in ornare. Suspendisse varius sem vel arcu volutpat, sit amet scelerisque purus aliquet. Ut libero lacus, fermentum ac justo id, venenatis consequat enim. Praesent hendrerit quam nibh. Sed ut velit neque.

Image ndslabs/clowder

Tag 0.9.2

Dependencies

mongo: true
elasticsearch: false
plantcv: false
image-preview: false
video-preview: false

Environment

RABBITMQ_URI: localhost:5672
MONGO_URI: localhost:27017
ELASTICSEARCH_URI: localhost:9200

Ports

9000 (TCP)

Volumes

Add Spec
Clone
Import

Create / Edit Catalog Entries

NDS Labs: Catalog
http://clusterndslabs.org

Lorem Ipsum

[Home](#) > [loremipsum](#) > Catalog

- Clowder
- Dataverse
- Elasticsearch
- iRODS iCAT
- Kibana (ELK)
- Image Preview Extractor
- MongoDB
- PlantCV Extractor
- RabbitMQ
- Video Preview Extractor

Clowder

Save Revert Export

Basic

NameClowder
DescriptionLorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus leo ipsum, dapibus id tristique et, pharetra ut neque. Quisque egestas mauris purus, eget ultrices sapien suscipit non. Sed dapibus sed dolor at imperdiet. Etiam lacinia dictum ipsum in ornare. Suspendisse varius sem.

Docker

RegistryPrivate Docker Registry, Docker Hub, quayio, etc.
Image ndslabs/clowder
Tag 0.9.2

Advanced

Dependencies

mongo: true
elasticsearch: false
plantcv: false

Name
☐ Required
Add

Ports

9000 (TCP)

Port Number
☐ External
Add

Environment

RABBITMQ_URI: localhost:5672
MONGO_URI: localhost:27017
ELASTICSEARCH_URI: localhost:9200

Name
☐ Is Password
Add

Default Value
☐ Can Override
Add

Volumes

Destination
☐ ReadOnly
Add

Export Catalog Entry (Share)

Export Catalog Entry

```
{
  "label": "Clowder",
  "key": "clowder",
  "description": "A scalable data repository where you can share,
organize and analyze data.",
  "image": "ndslabs/clowder:0.9.2",
  "display": "stack",
  "access": "external",
  "depends": [
    {
      "key": "mongo",
      "required": true
    },
    {
      "key": "elasticsearch",
      "required": false
    },
  ]
}
```

Close Copy to Clipboard

Import Catalog Entry

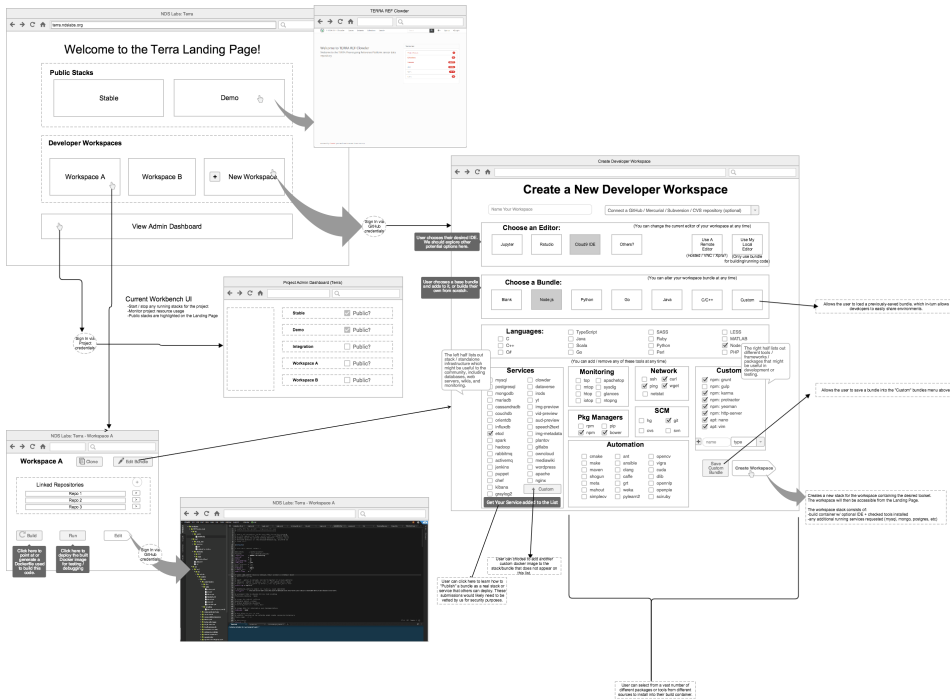
Import Catalog Entry

Paste your JSON spec here:

```
{
  "key": "mongo",
  "label": "MongoDB",
  "image": "mongo:3.2.4",
  "description": "A cross-platform document-oriented NoSQL
database",
  "display": "standalone",
  "access": "internal",
  "ports": [
    { "port": 27017, "protocol": "tcp" }
  ],
  "volumeMounts": [
    { "mountPath": "/data/db", "name": "mongo" }
  ],
  "resourceLimits": {
    "memory": "1Gi",
    "cpu": "1"
  }
}
```

Cancel Import

Historical



NDS Labs: lambert8's Catalog

[Home](#) > [lambert8](#) > Stacks

Clowder				
Dataverse				
iRODS				
iRODS iCAT	Starting...	Console	View Config	View Logs
iRODS Cloudbrowser API	Ready	Console	View Config	View Logs
MongoDB				
RabbitMQ				

Launch Stack
Delete Stack

Configure New Stack

Manage Catalog