Beta Release

Target release	TBD
Epic(s)	Beta Release Tasks
Document status	DRAFT
Document owner	Kenton McHenry
Lead Developer/Architect	Luigi Marini
Lead Tester	TBD (Shannon Bradley?)

Goals

- Initial open release of Brown Dog
  - Highlight what can be done with a Data Transformation Service through an initial suite of transformation tools, a number of sample clients, and sample data allowing a user to quickly try things out
  - Email batches of users from signups thus far.
  - Email should contain a link to a feedback survey.

Test criteria

- All tools in beta suite pass bi-hourly tests when run in parallel submission mode

Background and strategic fit

The beta release will:

- Provide the community with a first glimpse of Brown Dog
- Allow the Brown Dog team to increase exposure through presentations and hands on tutorials
- Allow the team to identify bugs through real world usage and harden the service towards a 1.0 release
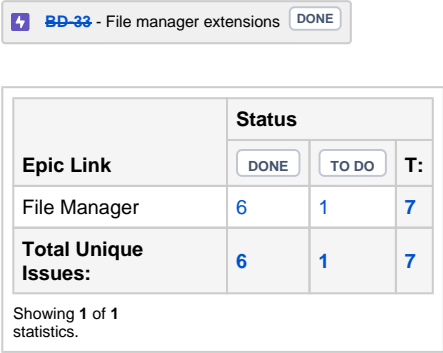
Assumptions

- Many users will want to try out the system without too much effort
- Will need to support very novice users (easy to use interfaces/samples)
- Some users will begin to regularly use the system, throwing many requests at the service

Requirements

#	Title	User Story	Effort	Status	Notes	Assignment
1	Access	The user will be able to **signup** on the Brown Dog web page and get a **quota** in terms of alotted requests per month as well as requests per hour. The Brown Dog account will give them access to BD Fiddle, each of the clients, the Tools Catalog, and the ability to generate tokens to make calls from within the applications they create.	Low	Seems be nearly there.	- http://browndog.ncsa.illinois.edu/ - http://browndog.ncsa.illinois.edu/signup/	Luigi Marini
2	Beta Tools & Tools Catalog	The user will be able to try out one of a number of **tools spanning a range of scientific domains** and general data usage tasks. Upon signing up for an account the user will be able to **explore the tools catalog** (utilizing the same account) to see what transformation tools are available as well as what each is capable of doing. These tools will be **deployed under the elasticity module** so that a user can try the tool via one of a number of possible client interfaces as well as **tested every other hour** to ensure each tools available. The user should come away with a sense of the breadth of data currently and potentially supported over time, the flexibility of the system, the potential for contributing tools of their own, and the types of tools that would fit as part of the service.	High	Work in progress	- http://browndog.ncsa.illinois.edu/tools/ - Project Supported Transformations Progress	Luigi Marini, Shannon Bradley
3	Fence API v0	Users who are developers will have access to a **consistent, compact, and straight forward API** providing them with extraction, conversion capabilities to be called within their own applications.	Medium	Defining the API is straightforward, however, will need to fix all of the clients		Luigi Marini

4	Producti on updates	The user will have access to the latest features through the **production instances** of Clowder, Polyglot, Fence, and BDMon. Production Updates - Detail	Low	Most auto-deployed at this point	• **Risk Assessmen ts** - the most work needs done on the Elasticity Module - triage of remaining tasks will need completed to determine which ones should be in Beta	Luigi Marini, Ke nton McHenry, Bing Zhang
5	bd-swarm	The user will experience relatively consistent response times when submitting requests, whether there are many requests being made to the system at that instant or only a few.	Low	Need a few additional scripts in bd-swarm to scale and monitor things		
6	BDFiddle	The user will explore Brown Dog for the first time through BDFiddle. As a user friendly web interface the user will be able to upload data, **try out transformations**, and discover alternative ways to utilize Brown Dog within other programming languages. Specifically, the user will be able to: • upload a file or point to file URL • select an output OR a specific tool for a transformation • get the output of the transformation • get a **code snippet** that can be pasted and executed in Matlab, R, and Python • launch a Jupyter notebook to try the python code • download the needed libraries for Matlab, R, and Python • trace executions via a datawolf workflow link presented as part of the results ⚡ **BD-1416** - BDFiddle TO DO <table><tr><td></td><td colspan="3">Status</td></tr><tr><td>**Epic Link**</td><td>DONE</td><td>TO DO</td><td>T:</td></tr><tr><td>BDFiddle</td><td>31</td><td>9</td><td>**40**</td></tr><tr><td>**Total Unique Issues:**</td><td>**31**</td><td>**9**</td><td>**40**</td></tr></table> Showing **1** of **1** statistics.	Low	Nearly Complete, needs polish, fix to Jupyter, fix to DataWolf, bug testing	• http://brow ndog.ncsa. illinois.edu /bdfiddle/	Marcus Slavenas, Christ opher Navarro, Kenton McHenry
7	Test files	BDFiddle should have a tab containing a **sample file for each of the the beta tools** allowing the user to quickly try out any of the capabilities provided.	Low	Work in progress	• http://brow ndog.ncsa. illinois.edu /bdfiddle /examples. php	Luigi Marini, Sh annon Bradley
8	Bookma rklet	A quick and user friendly interface allowing users to **try Brown Dog on arbitrary web pages**. From BDFiddle the user will be able to drag the Brown Dog graph in the corner to their bookmarks toolbar. While navigating the web the user will be able to click on this bookmark to activate the bookmarklet which will: • add a menu to each link/image on the page allowing the user to download the corresponding file as a different format • popup a search box when the user presses ctrl+F allowing the user to search across links/images on the page based on extracted contents from the corresponding files (e.g. extracted text) **Sample pages** should be provided to the user so that they can quickly try this interface out. The bookmarklet should work with each of the sample files on the **BDFiddle sample files page** as well.	Low	Some bug fixes with regards to how data can be referenced on the web		Kenton McHenry
9	Comma nd Line Interface	The user should be able to **install on Ubuntu** via "apt-get browndog" the Brown Dog command line interface and then utilize it to **convert local files** (e.g. bd -output jpg foo.tif) and **index/search local folders** (e.g. bd -v /foo). The user will be able to handle large files by passing in the --bigdata flag which moves needed tools locally vs send the data to the remote servers. The user will be able to get help by passing in the --help flag. The user will be able to tell what data types are supported, available tools, output formats, and tools that can be moved locally via appropriate flags.	Low	Need to figure out the apt-get part, do some cleanup, documentati on, and testing		Sandeep Puthanveetil Satheesan

10	Windows Client	The user will be able to **download a setup.exe** from the Brown Dog webpage to install the Windows client. The client will modify the Windows file manager such that when a user can **convert local files** by simply right clicking on the file and selected the desired resulting format and **index/search local folders** by similarly right clicking on a folder to index then search its contents based on extracted metadata. ⚡ BD-33 - File manager extensions `DONE` 	Epic Link	Status		
	DONE	TO DO	T:
File Manager	6	1	7
Total Unique Issues:	6	1	7 | Showing **1** of **1** statistics.	Low	Some cleanup, documentation, and testing still needed	• http://browndog.ncsa.illinois.edu/downloads.html	Bing Zhang
11	R Library	The user will be able to **run R snippets** obtained from BDFiddle by copying and pasting them in their code and **installing the bd.R library via cran** (e.g. install.packages("browndog")).	Low	Need to figure out the cran part and do some testing	• https://opensource.ncsa.illinois.edu/bitbucket/projects/BD/repos/bd.r/browse	Yan Zhao
12	Python Library	The user will be able to **run Python snippets** obtained from BDFiddle by copying and pasting them in their code and **installing the bd.py library via pip** (e.g. pip install browndog).	Low	Need to figure out the pip part and do some testing	• https://opensource.ncsa.illinois.edu/bitbucket/projects/BD/repos/bdcli/browse	Sandeep Puthanveetil Satheesan
13	Matlab Library	The user will be able to **run Matlab snippets** obtained from BDFiddle by copying and pasting them in their code and **installing the bd.m library** downloaded from the Brown Dog web page.	Low	Needs some code cleanup and testing	• https://opensource.ncsa.illinois.edu/bitbucket/projects/BD/repos/bd.m/browse • http://browndog.ncsa.illinois.edu/downloads.html	Marcus Slavenas
14	Documentation	The user will be able to find documentation and examples to help them along. Specifically up to date: • Swagger documentation of the API • Wiki walk-throughs • Man page for bdcli • Help button for windows client • Readme.md files with each library	High	Will need to recruit effort from the entire team	• Documentation • https://bd-api-dev.ncsa.illinois.edu/docs/	Shannon Bradley, Luigi Marini
15	User Support	Users will have user support towards **quickly fixing service issues** and **answering questions**. The user will be able to get support from a support email and confluence questions.	Medium	Will need a plan to support with dev staff for the time being and transition over to a new dev ops branch of the group over time	• Administration • Questions • browndog-support@ncsa.illinois.edu	Kenton McHenry
16	Beta User Email & Survey	Users that have signed up to Brown Dog will receive an **email** notifying them of the beta release, some quick instructions (with graphics), link to BDFiddle, and link to **feedback** survey.	Low	Can use signup email and XSEDE survey as a starting point.		Shannon Bradley, Kenton McHenry

User interaction and design

Questions

Below is a list of questions to be addressed as a result of this requirements document:

Question	Outcome