REST API for the management of NDS Labs services

First pass review of the REST API implemented by the nds-django project. Work in progress and subject to updating.

Activities	Parameters	HTTP verb mapping	Return elements
Create a docker job.	"script" : String - The actual script to execute OR "file" : String - Name of file to attach that contains the script to execute "scriptname" : String - If "script" is defined, the name to assign to that script. "image_name" : String "image_tag" : String "data" : String	POST /upload	The ID of the docker job that was created
Get the staus of a docker job	"job_id" : String	GET /upload	container id - The identifier for the docker container worker - The name of the worker that is handling the job create task state - The current state of the job, can be UNKNOWN, RUNNING, FAILED, or COMPLETED
Get the logs for a docker job	"cont_id" : String	GET /stdout	stdout - The logs associated with container that is running the job that was specified
List the data stored in iRODS		GET /list_data	List of items, with each element containing "name" and "url" information
List the docker images that are available		GET /list_images	Currently returns a hardcoded list of docker images that can be used for jobs
List the docker containers		GET /list_container	List of docker containers that are currently available
Stop a specific container	"cont_id" : String - The id of the container to stop	GET /stop	"state" - Either UNKNOWN, success, or failed "error" or "msg" - Text describing the current state that was returned
Obtain information about a container	"cont_id" : String - The id of the container to query (optional??)	GET /info	Information about the specified container, if "cont_id" was provided. Otherwise, a list of containers and the information about their last usage?
Get the diff of the container running a specific job	"cont_id" : String	GET /diff	A list of the changed files and directories within the container's filesystem
Retrieve all information for a job's container	"cont_id" : String	GET /metric	Data regarding the specified container
Download the results from a job			