

Brainstorm on a cluster:

1. Create the brainstorm folder for the brainstorm code insert and a brainstorm version
 - a. /user/brainstorm3/
2. Create the folder for the data
 - a. /user/brainstorm_db/anat
 - b. /user/brainstorm_db/data
3. Insert all the files you need and which would be created by brainstorm or just copy the brainstorm_db folder from the desktop computer
 - a. All the folders with the subject's data in the anat or data folder which should be analyzed must be included.
 - b. In the data folder the folder the file protocol.m is needed, since brainstorm can't create it on its own on the cluster.
 - c. Other folders like @default_subject or Group_analysis in the anat folder or @inter, @intra, @default_study in the data folder should be already included if needed.
4. Write a script to analyze data using brainstorm. To start the script successfully on the cluster the following lines needs to be on top of the script:

```
BrainstormDbDir = '/user/brainstorm_db';
if ~brainstorm('status')
brainstorm server
end
bst_set('BrainstormDbDir',BrainstormDbDir)
ProtocolName = 'Study';
sProtocol.Comment = ProtocolName;
sProtocol.SUBJECTS = [home 'anat'];
sProtocol.STUDIES = [home 'data'];
db_edit_protocol('load',sProtocol);
% Get the protocol index
iProtocol = bst_get('Protocol', ProtocolName);
if isempty(iProtocol)
error(['Unknown protocol: ' ProtocolName]);
end
% Select the current procotol
gui_brainstorm('SetCurrentProtocol', iProtocol);
```

5. Using the command `gui_brainstorm('CreateProtocol', ProtocolName, 0, 0);` brainstorm was crashing, that's why the `sProtocol` part was used. The following error occurred: Error using `gui_brainstorm>CreateProtocol` (line 1051) Could not create protocol.
6. Not using `sProtocol` part leads to the problem that brainstorm doesn't know the wanted protocol. (may work with it if a brainstorm version was uploaded where this protocol was included but with the `sProtocol` part it will work)
7. If a file like the `protocol.m` file is missing the following error occurs: Error using `java_dialog` (line 117) Unsupported call of `java_dialog` in headless mode. Error in `db_fix_protocol` (line 236) `res = java_dialog('question', ['Folder "'bst_fileparts(missingStudy{iStudy})'" is missing in the database.' 10 'Create the missing files and folders in the data folder?'], ...`