Gadi Setup

Agenda in Meeting

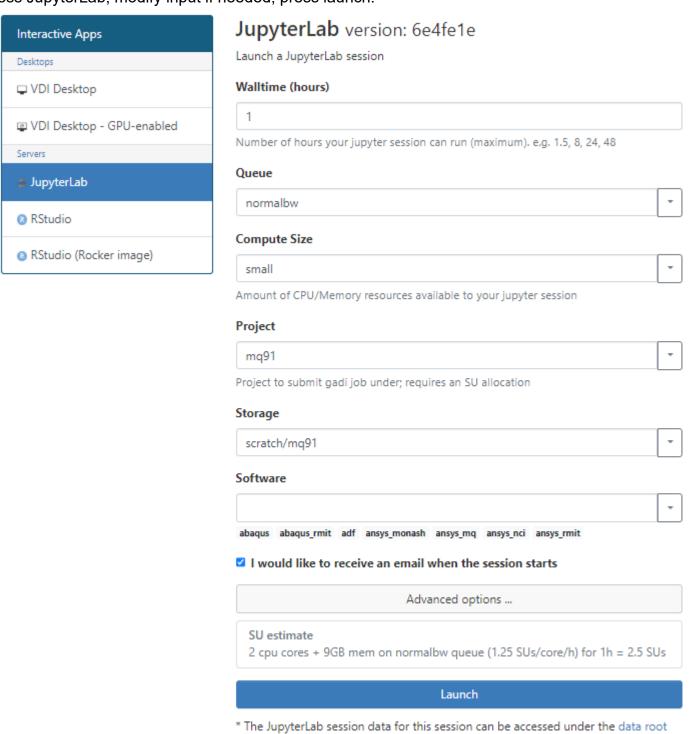
- Brief points on q&a week 1 and 2.
- Demo how to start JupyterLab session.
- Finalize a python version for everyone to use.

Important

• I created mq_venv, a venv that should be used by everyone. Install libraries such as TensorFlow here. Team will need to load python3/3.9.2 and activate the venv before starting the JupyterLab session.

Launch JupyterLab Session

- 1. SSH: ssh -Y ky5750@gadi.nci.org.au UTAR43000Kajang\$
- 2. cd /scratch/mq91
- 3. Load python module: module load python3/3.9.2 Check loaded module: module list
- 4. source mq91_venv/bin/activate
- 5. Install libraries if needed.
- 6. Login are.nci.org.au: ky5750 UTAR43000Kajang\$
- 7. Press JupyterLab, modify input if needed, press launch.



* The JupyterLab session data for this session can be accessed under the data root directory.

Extra arguments	
Space-separated list of additional arguments to pass jupyterlab commandline	on the
Module directories	
Include module directories, eg /g/data/hr22/module equivalent of 'module use /g/data/hr22/modulefiles'	on the
required to access the directory (eg gdata/hr22 in th	
Modules	
python3/3.9.2	
Space-separated list of modules to load, eg julia/1.9 (the equivalent of 'module load julia/1.9.1 R/4.3.1' or command line)	

Python or Conda virtual environment base

/scratch/ma91/ma91 venv

Activates a specific conda environment within a conda install eg myenv. Requires the path to the conda base environment above (the equivalent of 'conda activate myenv' on the command line) Environment variables Space-separated list of environment variables to define (via pbs 'qsub -v') e.g. NAME="VALUE" Jobfs size The maximum amount of local disk available to the session. e.g. 10GB, 100MB PBS flags Define any extra pbs qsub flags. Pre-script A script / executable to run prior to starting app. Note: must have executable permission set SU estimate

Launch

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2 cpu cores + 9GB mem on normalbw queue (1.25 SUs/core/h) for 1h = 2.5 SUs

Install libraries

- 1. cd /scratch/mq91/mq91_venv/lib/python3.9/site-packages.
- 2. python3 -m pip install tensorflow
- 3. Show installed libraries in the venv: ls

Other Commands

- Check quota: lquota
- Check snapshots (backups): cd .snapshot from root directory.
- Check for python3 modules available to install: module avail python3*
- Check for jobs running: qstat
- Available modules: module avail