

session 2: {http://youtube.com/watch?v=ZD0SBjMUy4w} 1.5h nf-core for users / developers, modules and subworkflows managing dependencies and containers / Channels, processes and Operators latest doc: https://nextflow.io/docs/latest/developer-env.html [filtering, transforming, splitting, combining, forking, maths, others]/ Groovy introduction/ Modularization basic training: https://training.nextflow.io/latest/basic_training/intro/ [matching youtube videos but not run through] https://training.nextflow.io/latest/basic_training/containers/#run-salmon-in-thesession 3: {https://www.youtube.com/watch?v=APavyRs4OMY} 2h Gitpod: https://nf-co.re/docs/tutorials/nextflow_training/creating_with_nf-core docker: <code Dockerfile>, <docker build -t my-image .>: build image, <docker run -it Github: https://github.com/nf-core/ my-image bash> : run container in an interactive way Workflow diagrams: https://nf-co.re/docs/guidelines/graphic_design/workflow_ configuration / deployment / Cache and resume/ troubleshooting / Getting session 4: {https://www.youtube.com/watch?v=etfYNB7hguo} 1.5h started with Nextflow Tower windows load java module: module load java/17.0.6 download nextflow: curl -s {<u>https://get.nextflow.io</u>} | bash module load nextflow/22.10.6 -> Lmod has detected the following error -> module spider nextflow/22.10.6 -> module load StdEnv/2020 linux: 1. module spider nextflow module load hal/2.2 > Lmod has detected the following error > module spider hal/2.2 > module load StdEnv/2020 gcc/9.3.0 > docker is an extension and does now work on linux (HPC) > switch to apptainer/ Singularity (HPC friendly) load existing module module load StdEnv/2023 StdEnvACCRE/2023 -> module load apptainer/1.3.5 3. module spider apptainer and vscode[also works for Singularity] vscode/1.100 clean Clean up project cache and work directories Installation clone Clone a project into a folder config Print a project configuration console Launch Nextflow interactive console drop Delete the local copy of a project help Print the usage help for a command kuberun Execute a workflow in a Kubernetes cluster (experimental) Useful commands: list List all downloaded projects info Print project and system runtime information log Print executions log and runtime info (all of the recent runs of nextflow in that directory.) pull Download or update a project run Execute a pipeline project self-update Update nextflow runtime to the latest available version view View project script file(s) VS code / Extensions / Docker / Git

session 1: {https://www.youtube.com/watch?v=nzR8DRq13nE} 1.5h

Intro to Nextflow, get started with Nextflow, Simple RNA-seq pipeline