







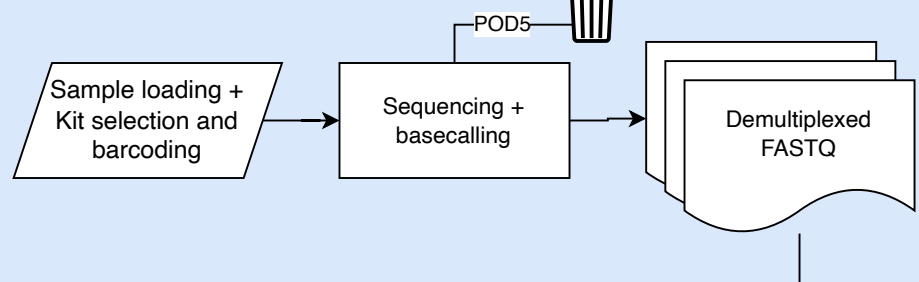


## ONT GridION –

Spec: 64 GB RAM, i7 (8C, 16T), Quadro GV100, 4 TB SSD

Stored  
on GridION

### ONT MinKNOW



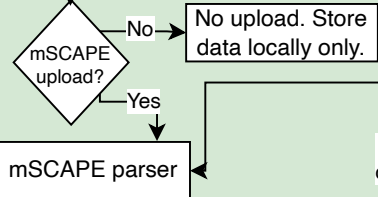
Stored on  
encrypted  
SSD

### Metagenomics SSD

#### Singularity/Apptainer container (immutable)

##### Metagenomics GUI inputs

- Hospital number (encrypted)
- Lab number (internal)
- Run ID (MinKNOW)
- Sample ID (MinKNOW)
- Collection time
- Barcode #
- Sample source (harmonised)
- Sample type (harmonised)
- Operator
- mSCAPE upload (bool)



##### Organism Query GUI inputs

- Sample ID
- Run ID
- Organism name

Data upload

Reporting Intervals  
0.5, 1, 2, 6, 16, 24



Human reads

Data ingest

Taxonomic classification

Human scrubbing

AMR Scagire/Abriicate

Centrifuge resolution

Report parsing

BLASTn (local)

#### Classification database

RefSeq  
FDA-  
ARGOS

BBmask

Raw classification reports

Human-scrubbed FASTQ

Raw AMR data

Clinical report

nt/RefSeq  
BLASTdb

Organism query report

CLIMB  
(AWS S3)

UKHSA-mSCAPE