

# Install Nanopore EPI2ME software on Windows computer

Version: March 2025



Install Nanopore Epi2Me software

Minimal Requirements for Computer/Laptop to install and run Epi2ME:

## Compute requirements

Recommended requirements:

- CPUs = 16
- Memory = 64GB

Minimum requirements:

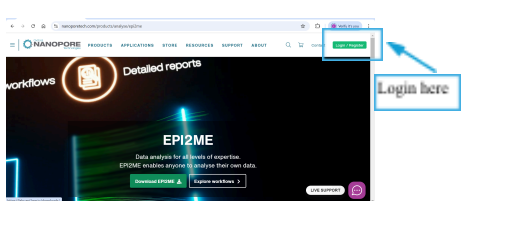
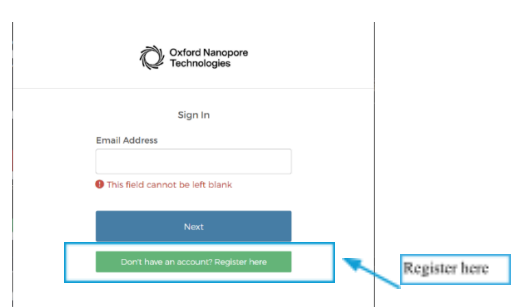
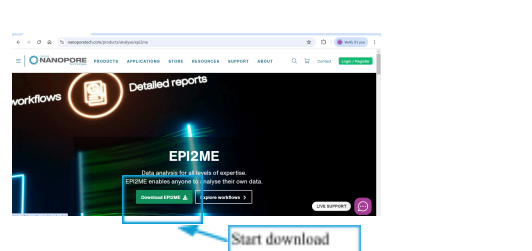
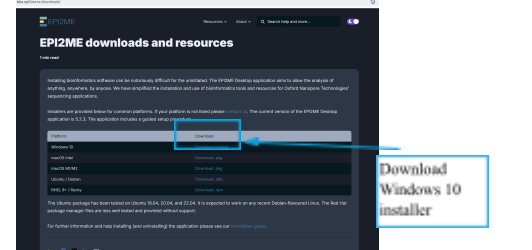
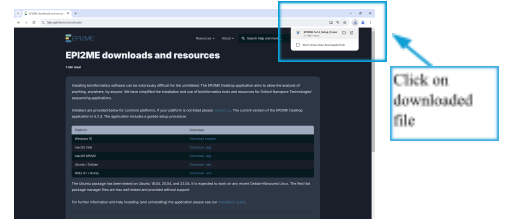
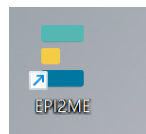
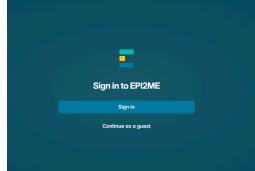
- CPUs = 8
- Memory = 32GB

Approximate run time: 20-40 minutes per sample with ~50x coverage using minimum requirements

ARM processor support: True

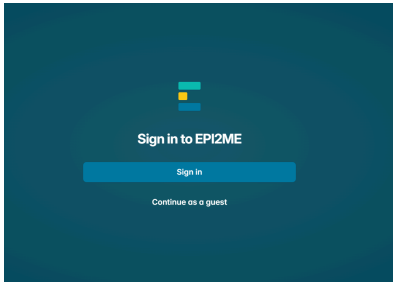
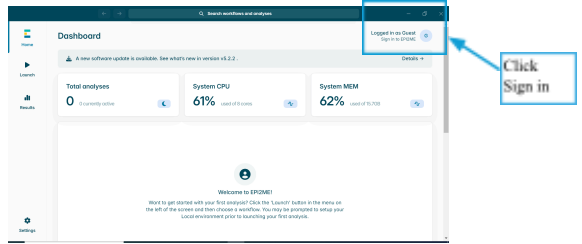
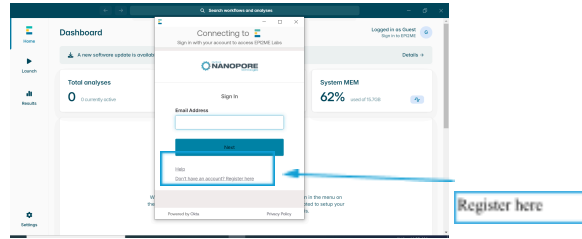
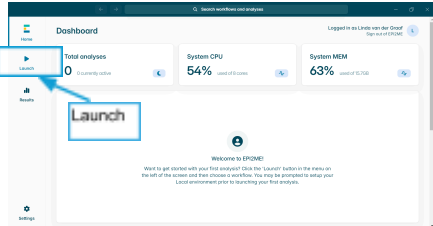
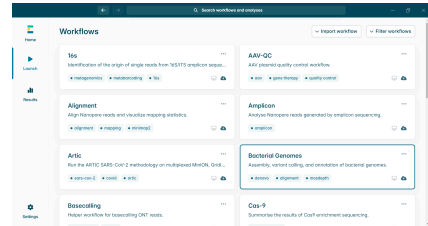
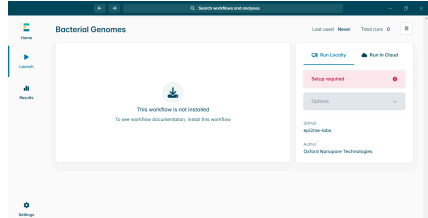
# Install Nanopore Epi2Me software

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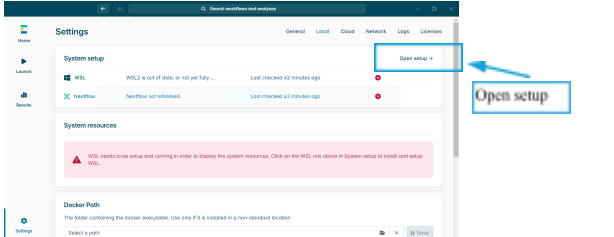
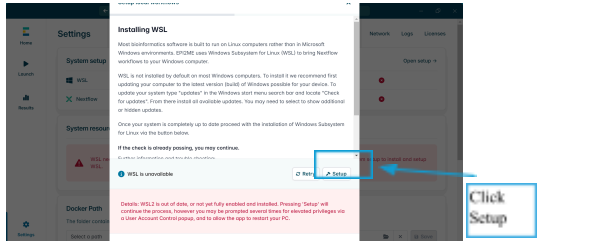
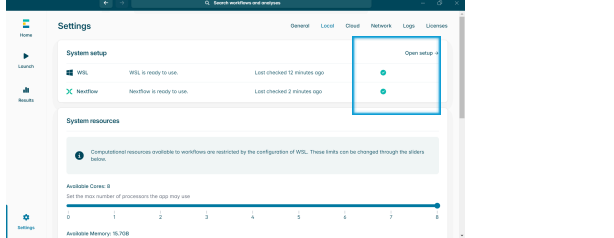
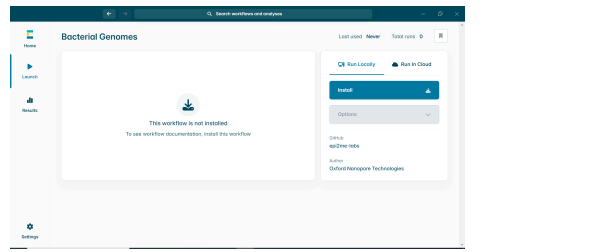
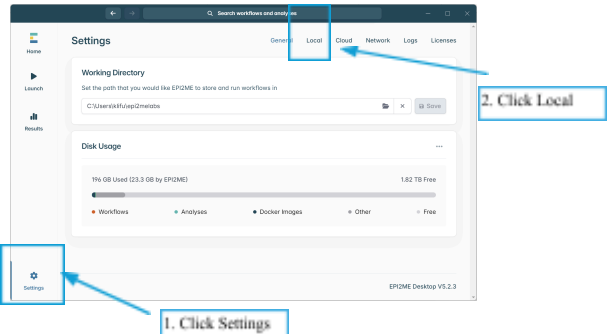
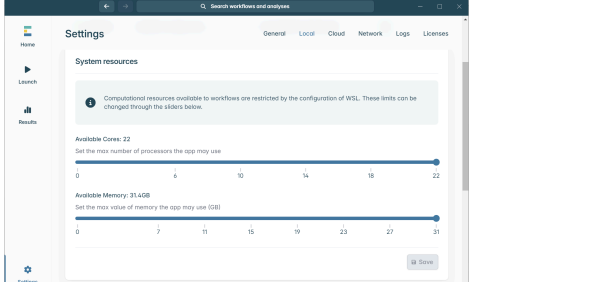

<p>Navigate to Nanopore Epi2Me website:  <a href="https://nanoporetech.com/products/analyse/epi2me">https://nanoporetech.com/products/analyse/epi2me</a></p> <p>Click on Login / Register</p>	
<p>Login with an existing account          Or          Create a new account by clicking          “Don’t have an account? Register here”</p> <p>After registration, login with the new account</p>	
<p>Click on “Download EPI2ME”</p>	
<p>Click on “Windows 10” Platform – Download installer</p> <p>Additional:          This page contains also the “installation guide” for help to (un)install the software</p>	
<p>Wait till download has finished and click on the downloaded file to start installation of EPI2ME</p>	
<p>After installation, the EPI2ME software is available and a desktop shortcut is created</p>	
<p>EPI2ME software can be started by clicking on Desktop Shortcut Icon</p>	

# Install Nanopore Epi2Me software

## Install Nanopore Epi2ME - Bacterial Assembly and Annotation Workflow

<p>Open EPI2ME software and “Sign in”</p> <p>If you do not have an account, click “Continue as a guest”</p>	
<p>As guest: Click “Sign in to EPI2ME”</p>	
<p>As guest: Click “Don’t have an account? Register here”</p> <p>Register and login</p>	
<p>After login, click “Launch”</p>	
<p>Click on “Bacterial Genomes”</p>	
<p>Normally, setup is required before installing the workflow</p> <p>Click on “Setup required”</p>	

# Install Nanopore Epi2Me software

<p>Check if WSL and Nextflow are installed. If not (red cross), click “open setup”</p>	
<p>To install WSL, click “Setup” to start installation of WSL and Nextflow</p>	
<p>After installation of WSL and Nextflow, check if installation was successful – green checkmark will appear WSL and Nextflow are ready to use</p>	
<p>Go back to “Launch” Select “Bacterial Genomes” Click “Install” (in screen Run Locally) <b>Please note:</b> Installation can take very long (up to hours)</p>	
<p>Set system resources to maximum 1. Click “Settings” 2. Click “Local”</p>	
<p>Slide both “Available cores” and “Available memory” to maximum</p>	
	

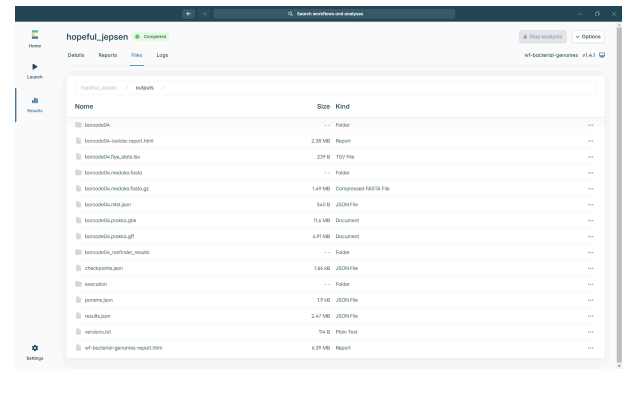
## Install Nanopore Epi2Me software

After successful installation of the Bacterial Genomes Workflow, the button “Launch” will appear, to be used to analyse Nanopore sequencing data.	
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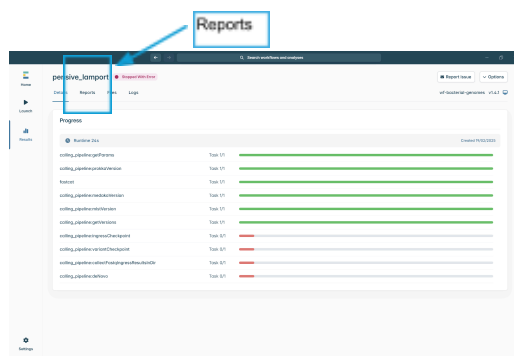
## Install Nanopore Epi2Me software

Launch Bacterial Genomes workflow again and check if mlst and resfinder files are generated



2. *Troubleshooting; Workflow stops with notification that not enough memory is available for workflow, while computer/laptop has the prescribed minimal 32gb RAM*

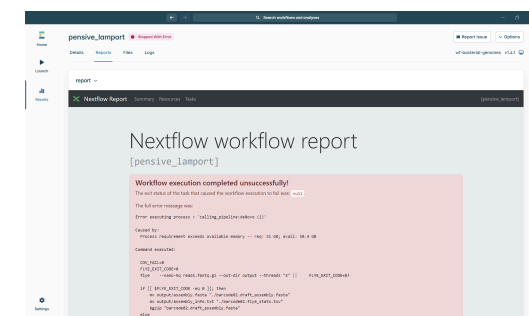
If workflow “Stopped with error”, go to “Reports”



Check error.  
If de novo assembly has stopped and “Caused by: Process requirement exceeds available memory”...

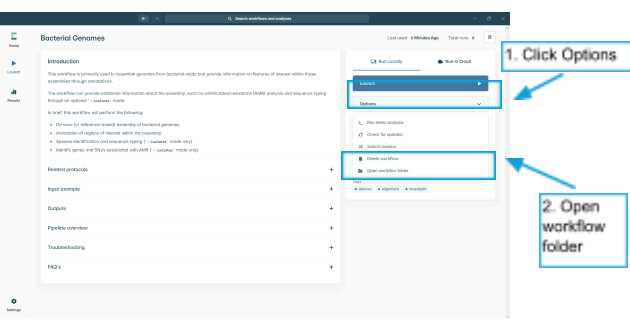
...continue with following steps

If other error is reported, do not continue with following steps



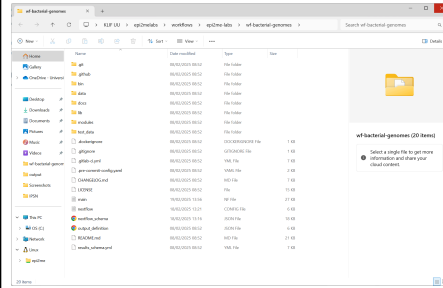
Navigate back to Bacterial Genomes Workflow

3. Click “Options”
4. Click “Open workflow folder”



# Install Nanopore Epi2Me software

Open file “main” in text editor



Scroll down to “process deNovo” and change memory “31 GB” to “24 GB”

Save file

```

process deNovo {
  input: "bacterialGenomes"
  output: process.deNovo
  script: "11.sh"
  params: read1.fastq.gz
  mem: 31 GB
  # ... (other code) ...
}

```

Open file “nextflow” in text editor

Scroll down to awsbatch process and change “memory = 31 G” to “memory = 24 G”

Save file

```

conda {
  conda.enabled = true
}

awsbatch {
  executor = "awsbatch"
  queue = "${params.aws_queue}"
  memory = "31G"
  withLabel:wf_common {
    container = "${params.aws_image_prefix}-wf-common:${params.wf_common_sha}"
  }
  withLabel:wf_bacterialGenomes {
    container = "${params.aws_image_prefix}-wf-bacterial-genomes:${params.wf_bacterialGenomes_sha}"
  }
  withLabel:prokka {
    container = "${params.aws_image_prefix}-prokka:${params.wf_prokka_sha}"
  }
  withLabel:medaka {
    container = "${params.aws_image_prefix}-medaka:${params.wf_medaka_sha}"
  }
  withLabel:mer {
    container = "${params.aws_image_prefix}-merfinder:${params.wf_merfinder_sha}"
  }
  withLabel:mlst {
    container = "${params.aws_image_prefix}-mlst:${params.wf_mlst_sha}"
  }
  withLabel:seporol {
    container = "${params.aws_image_prefix}-seporol:${params.wf_seporol_sha}"
  }
  shell = ["/bin/bash", "-c", "set -e; pip install ..."]
}

```

Launch Bacterial Genomes workflow again and check if it runs without errors till “Completed”

