



Bionano Tools Installation Guide

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Revision History

Revision	Notes
A	Initial release of document.
B	Revision to wget command
C	Add install step for new packages
D	Added install for Bionano Access Server Removed install for IrysSolve
E	Added section on Security Patches
F	Overview updated

Overview

Bionano Tools are installed on Saphyr Compute and Bionano Compute servers before server shipment and installation.

The Bionano Tools (folder “tools”) is located at the /home/bionano directory on the compute server. The folder contains various tools and scripts, including our computation pipeline Bionano Solve. Each tool is versioned independently. These tools together perform computation job on our compute server.

Install or Upgrade of Bionano Tools involves downloading a zipped file to the home/bionano directory and un-tarring the contents. Please refer to our Bionano Tools Release Note for details of the each update.

Warning

This installation is designed to overlay your existing /home/bionano/tools directory. Do not move or delete the existing contents of that directory. If you remove files from the tools directory your system may not function properly after this installation. Our installation process retains each version of the pipeline tools on your system automatically. There is no need to archive the existing contents.

Security Patches

If you are not already applying security updates to your system on a regular basis we recommend running ‘yum update’ on your linux system prior to installing the latest version of Bionano Tools. This operation requires Internet access and will update the libraries on your system to the latest versions including various security updates.

Installation/Upgrade Instructions

This document will explain how to deploy the latest tools onto a compute server. You will need to update the Saphyr1a node and Bionano Access Server. These instructions assume wget is installed and the system has internet access. If wget is not available, please issue a yum install for it (`sudo yum install wget`). If the site does not have internet access you will need to download the correct tgz file to the machine into the /home/bionano directory.

1. SSH into the compute server you want to update.
2. Login using the bionano account
3. `cd /home/bionano`
4. For Bionano Access Server:
`wget -N www.bnxinstall.com/access/tools/access.tools.pronto.tgz`

For Saphyr Compute or Bionano Compute:
`wget -N www.bnxinstall.com/access/tools/access.tools.saphyr.tgz`
5. For Saphyr Compute or Bionano Compute:
`tar -xvf access.tools.saphyr.tgz`

For Bionano Access Server:
`tar -xvf access.tools.pronto.tgz`
6. Issue the following command to install any new software dependencies:
`sudo ./bng-install.sh`

Technical Assistance

For technical assistance, contact Bionano Genomics Technical Support.

You can retrieve documentation on Bionano products, SDS's, certificates of analysis, frequently asked questions, and other related documents from the Support website or by request through e-mail and telephone.

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