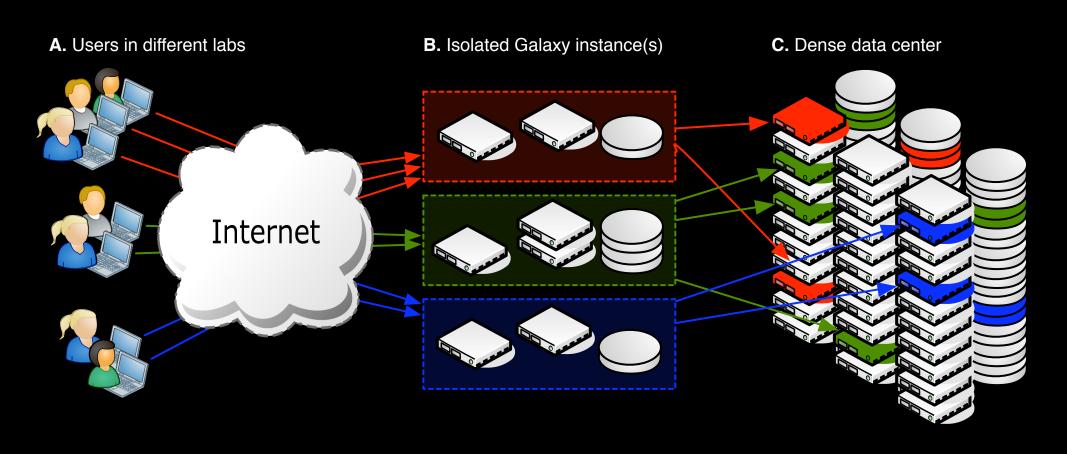
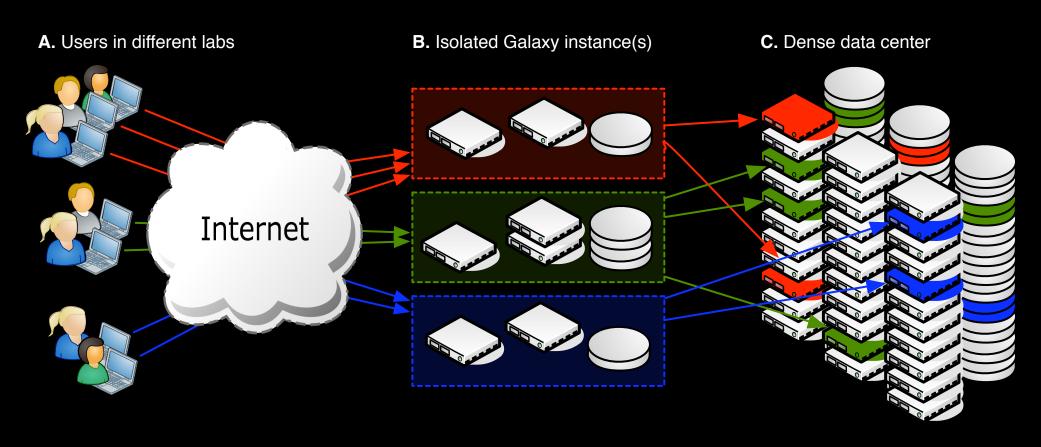


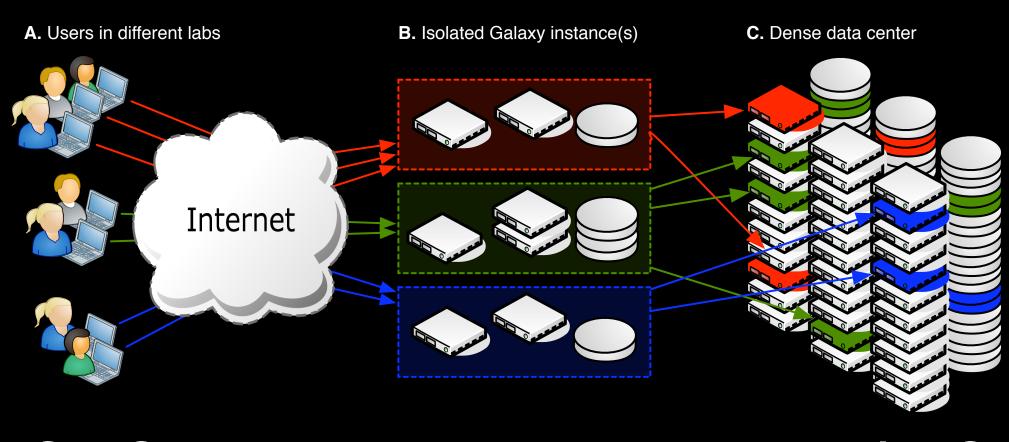
Bioinformatics Open Source Conference, July 16, 2011, Vienna





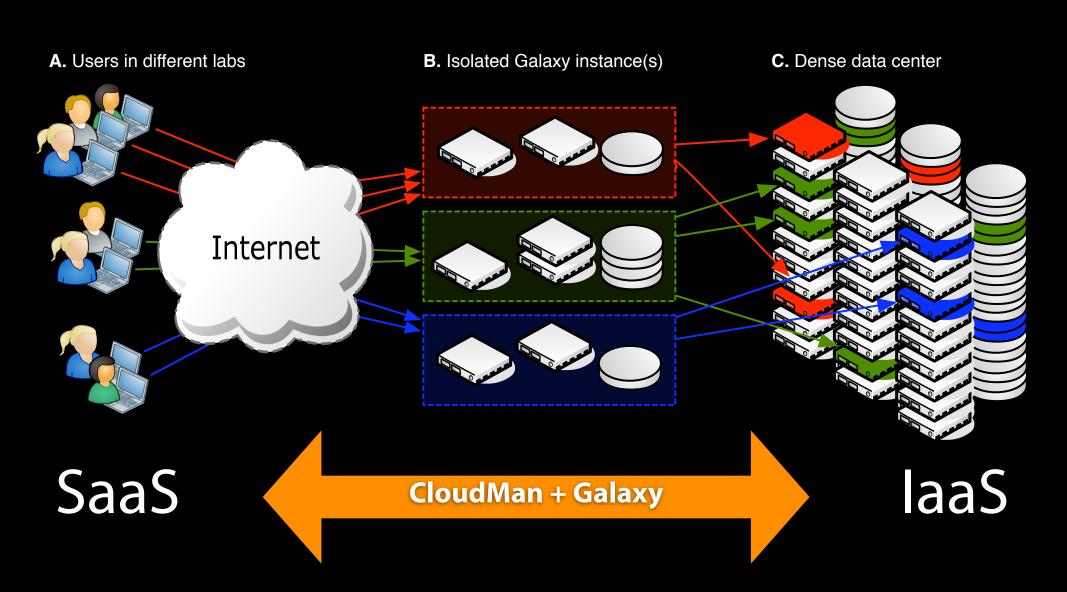


SaaS



SaaS

laaS



CloudMan Platform

A complete solution for instantiating and managing cloud resources

With automatically configured Galaxy (if desired)

Scope of tools and reference datasets exceed Galaxy Main

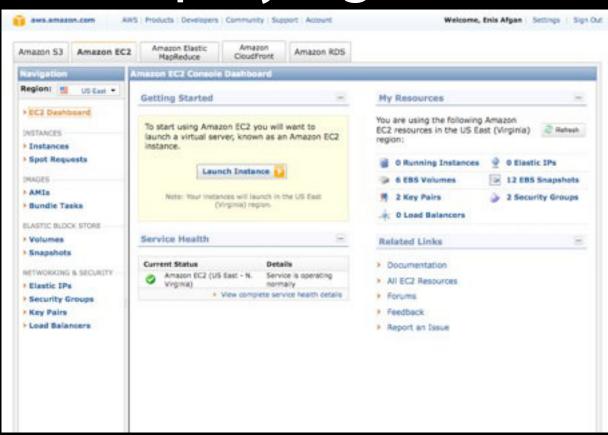
Deploy a (Galaxy) cluster in minutes!

CloudMan features

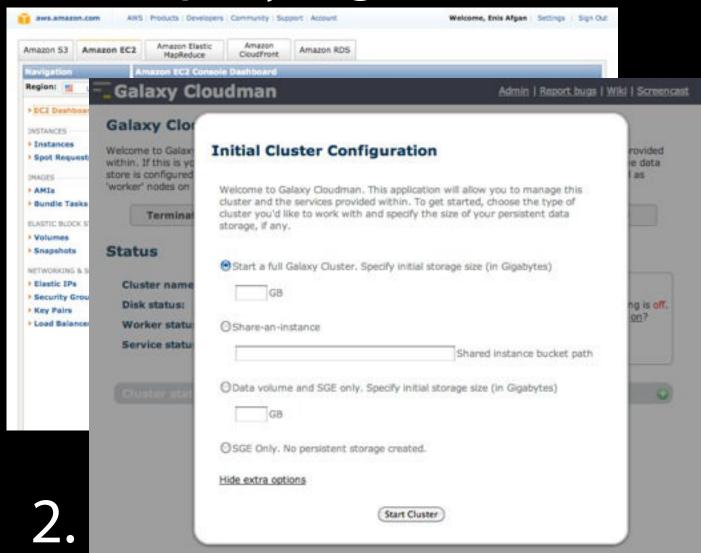
- Deployment on Amazon Web Services Cloud
 - Wizard-guided setup: requires no computational expertise, no infrastructure, no software
- Automated (thus reproducible) configuration for machine image, tools, and data
- Four modes of cluster type setup
- Dynamic persistent storage
- Elastic resource scaling: manual or automatic based on workload
- Standalone deployment, requiring no external dependencies or services
- Customizable by individual users
- Sharing of derived cluster instances -> even the customized ones!

CloudMan features

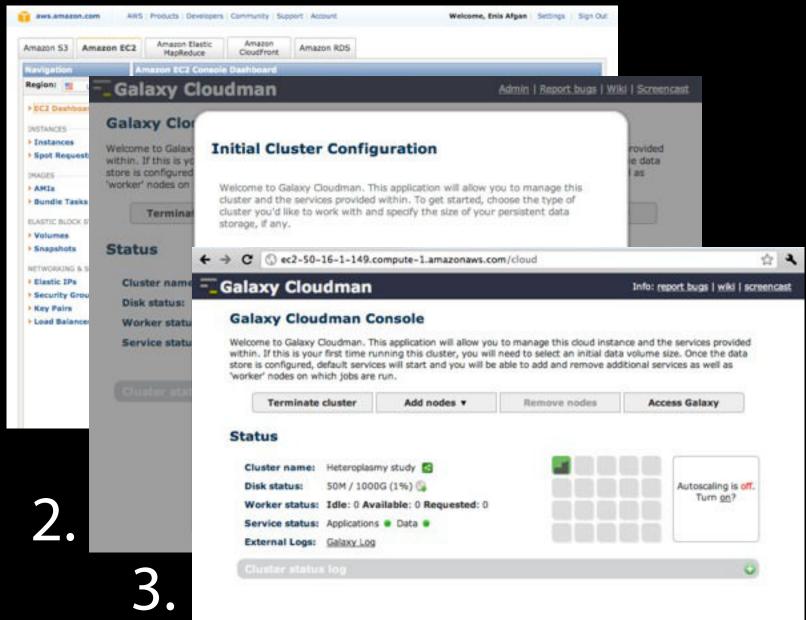
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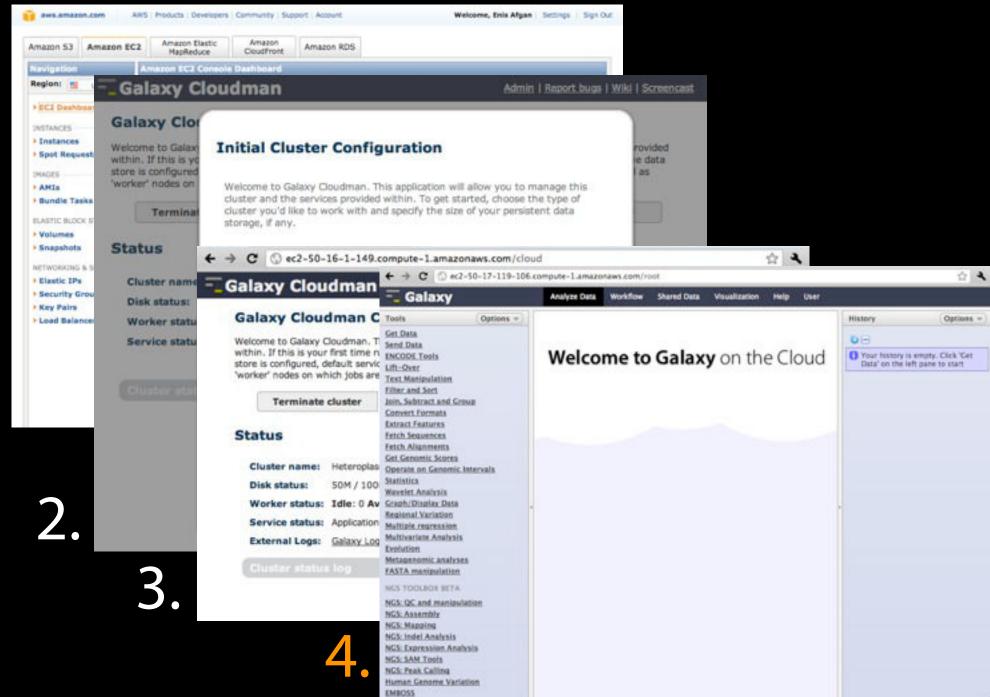


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1.





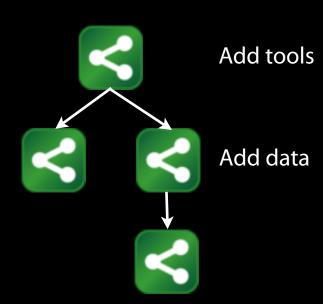
CloudBioLinux + Galaxy + CloudMan =

- A lot of (NGS) tools immediately available and easily accessible
- 700GB of reference genome data

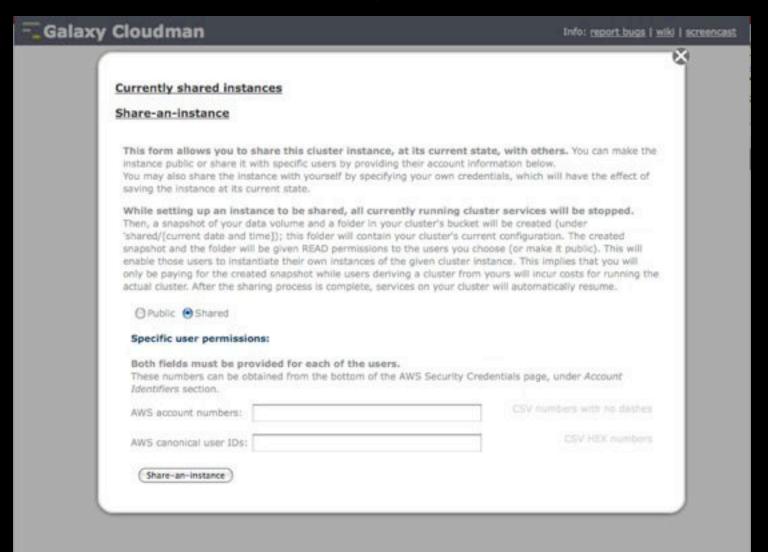
Bowtie, BWA, Samtools, MAQ, BFAST, ABySS, Velvet, MACS, Tophat, Cufflinks, MegaBLAST, BLAST, Sputnik, Taxonomy, HyPhy, Lastz, Perm, GATK, Srma, Beam, Pass, LPS, Plink, Haploview, Freebayes, Mosaik, Picard, ...

But what if your tool (or data) is missing?

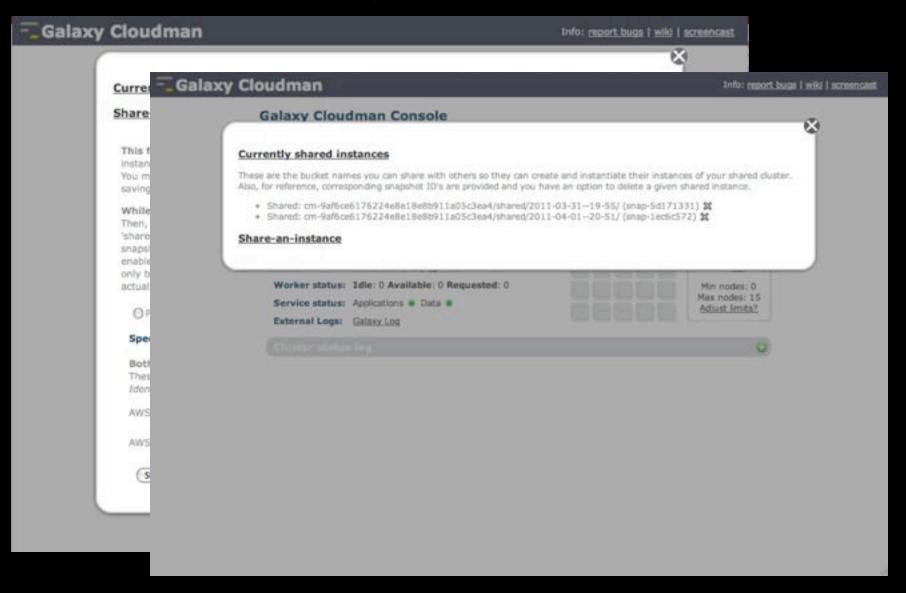
- 1. Add it! (via automation)- CloudMan instancesare self-contained
- 2. Save & share- With individual usersor make it public



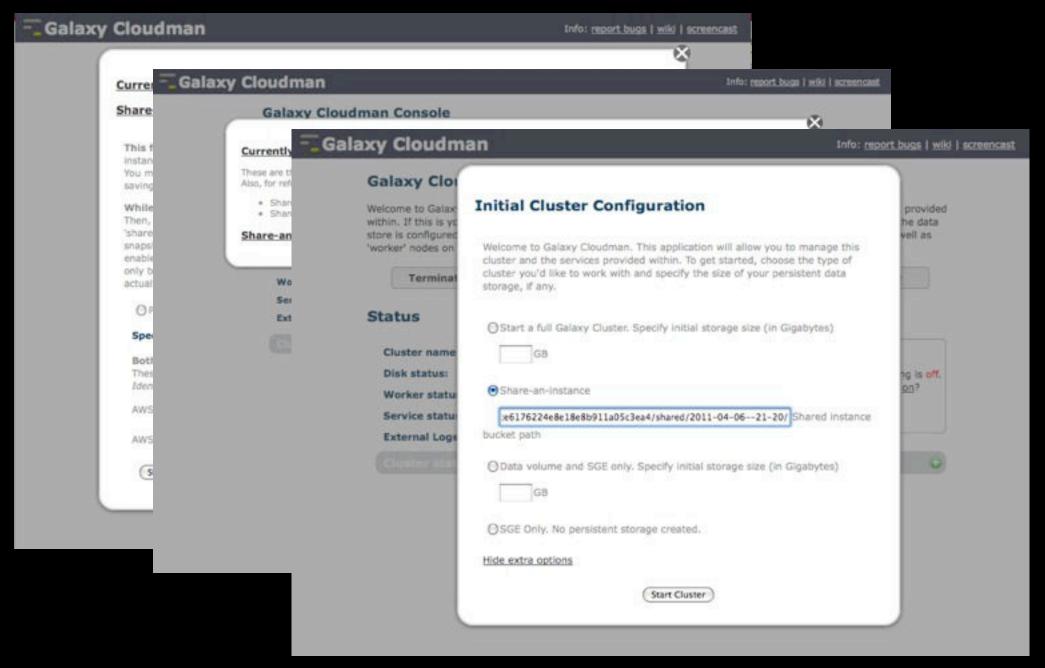
Deployment sharing



Deployment sharing



Deployment sharing



Use CloudMan as SaaS

Use CloudMan as PaaS

It's automated, reproducible, extensible, and transparent.







Enis Afgan



Dannon Baker



Dave Clements



Jeremy Goecks



Kanwei Li



James Taylor



Dan Blankenberg



Nate Coraor



Jennifer Jackson



Greg von Kuster



Kelly Vincent



Anton Nekrutenko