

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green. They are positioned diagonally, with the blue one partially covering the green one.

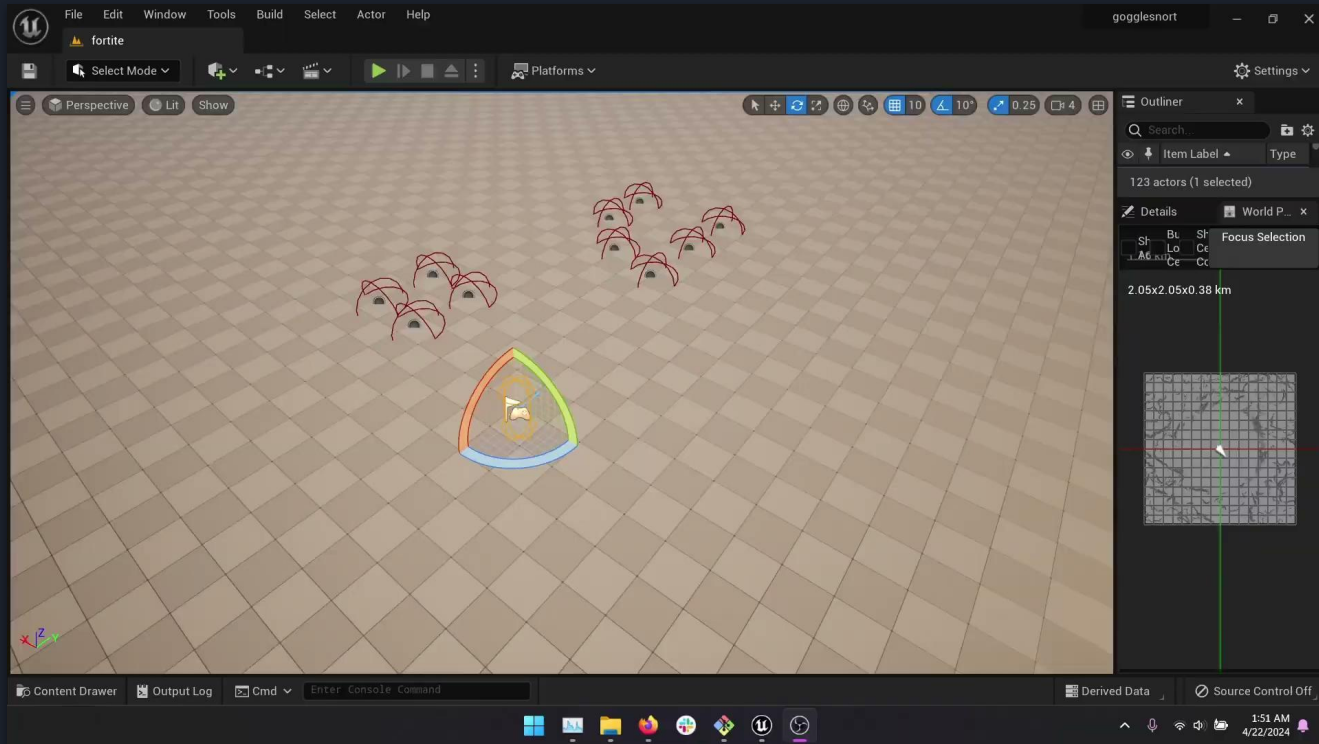
Inventory and VCS

Jacob BaumeI

Inventory



Inventory





Inventory Timeline

- Begin helping with inventory in November
- Begin working on modules system
- Discover issues with inventory that warrant refactor
- Remake inventory to look nicer, and to support the extra UI elements necessary
- Discover issue with internal data representation, refactor to create better system
- Refactor again to finalize inventory representation, and how data is stored persistently

Version Control



The image is a composite of three parts. The top-left part shows a 'Create compute instance' form with fields for Name (server), Create in compartment (jacobabaumeil (root)), Placement (Availability domain: AD-1, Capacity type: On-demand capacity), Security (Shielded instance: Disabled), and Image and shape. The top-right part shows a screenshot of the GitLab website, highlighting the 'Hosting Git Repositories' section, which includes links for 'install/setup', 'documentation', 'contact/support', and 'TROUBLESHOOTING'. Below the website screenshot, a terminal window displays a list of names and a series of commands for setting up a GitLab instance, including creating repositories, adding users, and setting up groups and projects.

Create an instance to deploy and run applications, or save as a reusable Terraform stack for creating an instance with Resource Manager.

Create in compartment

jacobabaumel (root)

Edit

Availability domain: AD-1 **Always Free-eligible**

Capacity type: On-demand capacity

Fault domain: Let Oracle choose the best fault domain

Edit

Shielded Instance: Disabled

Collapse

A [shape](#) is a template that determines the number of CPUs, amount of memory, and other resources allocated to an instance. The image is the operating system that runs on top of the shape.

Image

[illegible]

- Hosting Git Repositories
- install/setup
- documentation
- TROUBLESHOOTING
- contact/support
- security issues
- mailing list(s)
- IRC
- license

GitLab allows you to setup git hosting on a central server, with fine-grained access control and many more powerful features.

install/setup

Source code is at <https://github.com/sitaramc/gitolite>.

If your Unix-fu and ssh-fu are good, take a look at the [quick install](#) page. Otherwise follow the documentation flow, skipping whatever you think you don't need.

If you're installing via your package manager, make sure you get the right one; it's often called `gitolite3`.

documentation

In general, the sections (see links in the navigation bar at the top) should be fairly self-explanatory, and reading through the documentation as it flows (i.e., using the "Next" link at the top right of each page) should work fine. There are some forward references here and there, but you can ignore those links on a first pass.

(April 2014): There's a book on gitolite out. I've received some emails over the years asking where to donate for gitolite to show your appreciation, and I've always refused politely. Well, if you insist... buy the book :-)

to addition:

There's a **fool proof setup** guide with detailed help showing one fool-proof way to install, as long as you follow instructions faithfully!

Once you've installed and setup, there's the [cookbook](#) with recipes for common tasks.

TROUBLESHOOTING

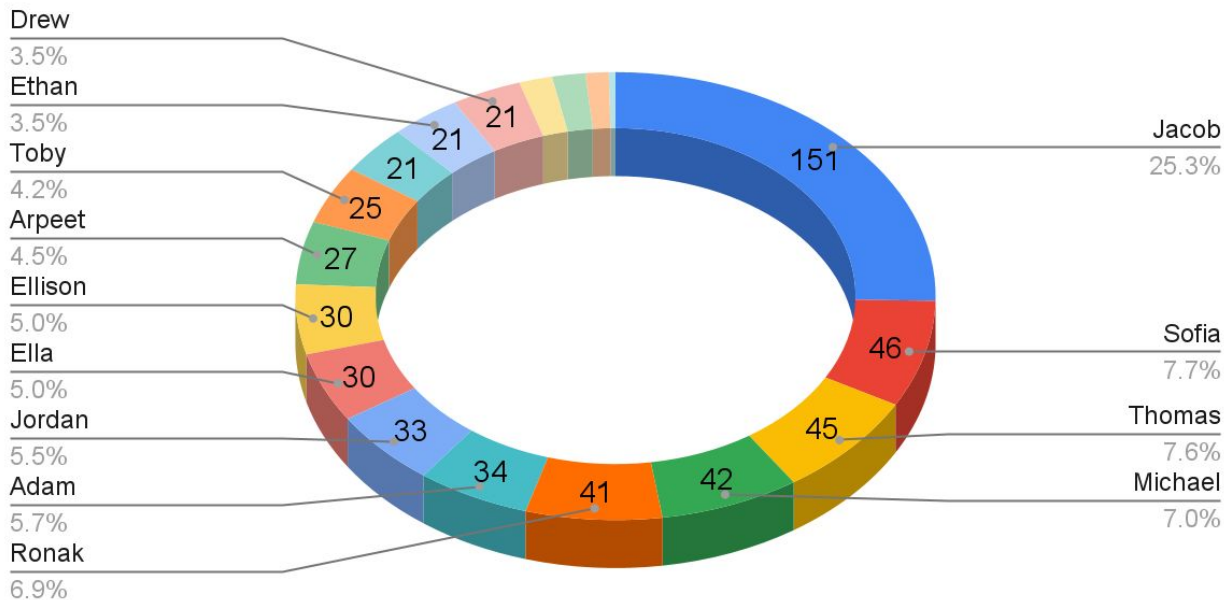
The [emergencies](#) page helps with all sorts of install/setup issues, recovering from lost keys and other self-inflicted wounds, lists some common (and some uncommon) errors and non-standard configs that may trip you up.

[contact/support](#)

Summary Statistics

- 18 committers
- 596 total commits (at time of logging)
- 53 branches
- 7.4GB final project Size
- 22.5GB final repository size

Total Commits





Timeline

August:

- Discuss need for version control, decide on Git
- Discover Github, Gitlab, and Bitbucket are blocked on district networks
- Get OCI Compute instance, set up raw git and SSH
 - No finer-level permissions control
- RAM bottleneck when interacting with remote
 - Instance only has 1GB of RAM
 - When pulling/pushing, more RAM is needed
 - Create a 8GB swap partition to partially alleviate RAM issues
- In-class workshop over git usage
- Find gitolite, install and configure



Timeline

- Add second VGP 2 class to server
 - Created tools to automate SSH key creation
 - Script to automatically download correct key, install into ~/.ssh directory, write SSH config file to disk, and configure Git user
- After-school workshop over git usage with member of other class
- Begin first few merges
 - Find issues with the merging process
 - Share merging techniques with others
- Clones begin to take long
 - Repository size has grown to multiple gigabytes, full clones begin to take upwards of an hour
 - No fix
- Remote server hard drive full
 - Created second storage block, attached over iSCSI
 - Moved repository onto new storage


Next Year Preparedness

```
Window
Extracting Git to: C:\Users\179851\Desktop\git\
Setting key as: michael

Extracting: 1457 / 7839
██████████
SSH Steps Complete
██████████
```

Bakemelo - Git Server Management

Server Management Documentation



Git sever setup instructions

This is a guide that goes along with the main software that walks through the process of setting up a git server. Although the application will manage most of the setup automatically, this guide is present in case anything goes wrong. In addition, there is a video tutorial [here](#) which also walks through the whole process.

If needed, I can be contacted at jacob.a.baume@gmail.com with any questions.

Creating the instance

Create Instance