

Grouper Training Environment

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Welcome to Virtual Grouper training.

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The [Grouper Training Environment \(GTE\)](#) is a set of lesson plans, training exercises, and supporting Docker modules. Students are able to bring up a full training environment by running a simple command. The GTE provides all the necessary components and configuration to go from learning basic Grouper operations, to exploring the access governance concepts presented in the [Grouper Deployment Guide \(GDG\)](#). The focus of the GTE is Grouper installation, configuration, design, and operation. Little to no technical experience is required to complete the Grouper training.

The training environment will be made available to students via Amazon Web Services (AWS). The student will only need a connection to the Internet and a suitable SSH client (e.g. OpenSSH on UNIX/Linux/Mac systems or PuTTY on Windows). IP addresses and credentials will be provided during the class.

Session information

- We will be taking short breaks throughout the day
- To keep things flowing well, please refrain from using the Zoom chat window. Instead, use the dedicated Slack channel for your discussions!
- VMs will be opened up several days before the class. They will remain open for two weeks after the class so that you can practice the lab exercises.
- Ask ALL of your questions. There are no dumb questions.

Pre-work

1. [Connect to your AWS instance from your computer](#)
2. Install "Kahoot!" (learning and trivia app) on your phone or preferably a device not used by zoom
3. Install the Zoom app if you do not already have it
 - a. It is nice if you have a camera available that you can turn on from time to time so we can all put names to faces
4. Install the Slack app if you do not already have it and make sure you are in the grouper-training-spring2020 channel
5. [Review these commands that you will need \(located in the GTE\)](#)
6. If you do not know linux, [here is a 5 minute lesson](#)
7. Unix text editor, you need to be able to edit a file (there are only a few exercises that require this) with nano, vi, or emacs. If you know how to use one of these, then you are good. If not:
 - a. "nano" is easiest, [here is a 2 minute lesson](#)
 - b. If you prefer "vi", [here is an 8 minute lesson](#)
8. Read the [Grouper Deployment Guide](#)

Computer setup the morning of training

1. If you have a phone or device not used for zoom, have that available with Kahoot! running.
 - a. You do not need to sign in to Kahoot but when using it please enter your real first and last name
2. If you have multiple monitors available, that would be useful but not required
 - a. Might be nice to not use a separate computer for Zoom and exercises, so you can share your screen if needed
3. Open the Slack app to the grouper-training-spring2020 channel
4. Open the Zoom app and connect to the Main zoom meeting (pinned from slack channel)
 - a. Please mute yourself and either keep your camera on or be prepared to turn it on while speaking so we can put names to faces
5. Open your terminal or SSH client (from pre-work <above> and slack pin) and connect to your GTE instance
 - a. Run this command

```
./gte 101.1.1
```

- b. Leave that terminal/ssh window open. Be prepared to reconnect if your SSH tunnel disconnects (e.g. when your browser stops working)
6. Close all your browsers and tabs
 7. Open Chrome (or firefox if you don't have Chrome)
 - a. Tab 1: GTE Jump page: <https://localhost:8443/>
 - b. Tab 2: Grouper admin account: <https://localhost:8443/grouper/> (banderson/password)
 - c. Tab 3: [Text to copy/paste](#)
 - d. Tab 4: [GTE commands](#)
 - e. Tab 5: SQL manager: <https://localhost:8443/phpmyadmin/> (root/<no password>)

- f. Tab 6: LDAP manager: <https://localhost:8443/phpldapadmin/> (cn=root,dc=internet2,dc=edu/password)
- g. Tab 7: Messaging manager: <https://localhost:8443/rabbitmq/> (guest/guest)
- 8. We need another Grouper non-admin session. Either open an incognito Chrome window (if other tabs are not incognito), or open a different browser (e.g. Firefox instead of Chrome)
 - a. Tab 1: Grouper non-admin account: <https://localhost:8443/grouper/> (jsmith/password)
- 9. Open a text editor e.g. notepad (windows) or notes (mac)

Important links

[GTE commands](#) - Simple commands to run GTE courses and interact with the environment

[Text to copy/paste](#) - Text from slides to copy and paste easily

[Grouper Deployment Guide](#) - Grouper concepts, standards, and best practices

GTE app links (once connected and a lesson is started)

Name	Link	Credentials	Description
Jump page	https://localhost:8443/		Links applications
Grouper	https://localhost:8443/grouper/	Admin: banderson/password Civilian: jsmith/password	Grouper UI application
Database manager	https://localhost:8443/phpmyadmin/	root / <no password>	Phpmyadmin Mysql database manager
LDAP manager	https://localhost:8443/phpldapadmin/	username: cn=root,dc=internet2,dc=edu password: password	Phpldapadmin LDAP administration
Messaging manager	https://localhost:8443/rabbitmq/	username: guest password: guest	Rabbitmq messaging administration
Shibboleth attributes	https://localhost:8443/app		Simple screen to show login state

Other info linked from slack "pin" to keep private

- Slides (only accessed by registered course participants)
- SSH IPs and credentials
- Zoom teleconference coordinates

Help

If you have any questions about the workshop or its technical content, please send a note to Erin at emurtha@internet2.edu .

You can also use the dedicated Slack channel for an even faster response.