

AWS Production Servers

[ALL HOW TOs](#)

- [Logs](#)
- [ssh to AWS](#)
- [Debugging on AWS](#)
- [Working with Solr](#)
- [Using eb cli](#)
 - [Cool commands](#)
- [Updating bundler on AWS](#)

References:

- [Article: Best Practices for Rails app using Elasticbeanstalk](#)
- [Article: Update Bundler on AWS Elastic Beanstalk](#)

[AWS Console](#) [All Services](#) [Compute](#) [Elastic Beanstalk](#) [change Ohio to N. Virginia in top menu](#)

[AWS Console](#) [Storage](#) [S3](#) [Buckets](#) [search for app name](#)

Logs

click Logs in left side menu

- fetch full logs
- download and unzip
- interesting logs

log/eb-commandprocessor.log	shows what happened during deploy
log/nginx/access.log	shows URLs accessed for qa_server
app/containerfiles/logs/production.log	rails app log

```
eb logs          # equivalent to tail -100
eb logs -a       # download all logs to local directory in rails app .elasticbeanstalk/1
```

ssh to AWS

- eb init
- eb use `_machine_name_`
- eb ssh

- locations of interest

path	purpose	ex files
<code>/var/app/current</code>	navigate to app	
<code>/opt/elasticbeanstalk/hooks/appdeploy/pre</code>	scripts to run before deploy starts	<code>10_bundle_install.sh</code>
<code>/opt/elasticbeanstalk/hooks/appdeploy/post</code>	scripts to run after after deploy starts	<code>01_rails_support.sh</code>
<code>/opt/elasticbeanstalk/support</code>	EB_SUPPORT_DIR	

/opt/elasticbeanstalk/support/scripts	EB_SCRIPT_DIR	
/var/app/ondeck	EB_APP_STAGING_DIR	
webapp	EB_APP_USER	not a location, but used in 10_bundle_install.sh

- connecting to the database
 -

```
$ sudo mysql -h _DATABASE_HOST_ -u _DATABASE_RAILS_USER_ -p
Enter password: _DATABASE_RAILS_USER_PW_
```

Values for _DATABASE_* are in the AWS config

Debugging on AWS

- tail logs
 - tail -f -n 50 log/integration.log
 - tail -f -n 50 log/staging.log
 - tail -f -n 50 log/production.log
 - tail -f -n 50 log/monitor.log
 - tail -f -n 50 log/performance_cache.log
- add puts statements and restart
 - sudo service httpd restart
- grep for errors in logs
 - grep 500 log/production.log
 - grep Timeout log/production.log
 - grep "RDF::Graph#load failure" log/production.log

Working with Solr

- get solr location from AWS Console All Services Compute Elastic Beanstalk _MACHINE_NAME_ Configuration Software Modify SOLR_URL remove everything /solr/ on (e.g. remove /solr/exhibits from the end of the URL) paste URL in browser
- check if solr is running

```
ssh _URL_MINUS_HTTP_MINUS_PORT_TO_END_ ### NO PERMISSION TO SSH TO THIS MACHINE
ps ef | grep solr
```

- start if not running or restart solr if running but not responding

```
sudo service solr start
sudo service solr restart
```

Using eb cli

Ref: <https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/eb3-ssh.html>

Cool commands

command	example	comments
eb init	eb init	<ul style="list-style-type: none"> • us-east-1 • choose _MACHINE_NAME_-int • choose default environment (will vary) • type n when asked about CodeCommit
eb list	eb list	shows all servers you can connect to
eb ssh	eb ssh _MACHINE_NAME_-stg	connect to default or a specific server (see eb list for server names) app at: /var/app/current
eb printenv		
eb setenv _NAME_= _VALUE_		set environment vars from command line

aws logs		
aws elasticbeanstalk restart-app-server	aws elasticbeanstalk restart-app-server --environment-name my-env	

Updating bundler on AWS

[Article: Update Bundler on AWS Elastic Beanstalk](#)

In app on laptop (e.g. CUL-IT/qa_server)

- Edit `./ebextensions/upgrade_bundler.config`
 - make sure ruby version is correct
 - update bundler version
- update app version in `/config/locales/qa_server.en.yml`
- add version changes to `/CHANGELOG.md` (e.g. "update bundler to 2.1.4 on AWS")

At app root in terminal on laptop

- update bundler to desired version (e.g. for 2.1.4 use command: `gem install bundler -v 2.1.4`)
- run any bundle command to update Gemfile.lock's version (e.g. update qa_server gem: `bundle update qa_server`)
 - Gemfile.lock should now say it was built with the new version of bundler. (e.g. last few lines read: `BUNDLED WITH 2.1.4`)

Commit

- `./ebextensions/upgrade_bundler.config`
- `Gemfile.lock`
- `qa_server.en.yml`
- `CHANGELOG.md`