

Prodiguer Platform - Server Deployment Notes

Author: Mark A. Greenslade

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Deployed by: Nicolas Carenton

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1. Shut down system

1.1. Shut down MQ server

prodiguer-mq-daemons-kill

1.2. Shut down WEB server

prodiguer-web-daemons-kill

nginx stop

2. Back up system

2.1. Back up DB server

2.1.1. Take VM snapshot

2.1.2. Backup local files

```
cp /opt/prodiguer/ops/config SOMEWHERE_ON_THE_MACHINE  
prodiguer-db-pgres-backup
```

2.2. Back up MQ server

2.2.1. Take VM snapshot

2.2.2. Backup RabbitMQ broker definitions

2.2.2.1. Open admin UI

Navigate to: <http://prodiguer-test-mq.ipsl.fr:15672/#>

2.2.2.2. Back up definitions

- Expanding the 'Import / export definitions' panel
- Clicking 'Download broker definitions' button
- Save definitions to SOMEWHERE_ON_THE_MACHINE

2.2.3. Backup local files

```
cp /opt/prodiguer/ops/config SOMEWHERE_ON_THE_MACHINE  
cp /opt/prodiguer/ops/logs/mq SOMEWHERE_ON_THE_MACHINE
```

2.3. Back up WEB server

2.3.1. Take VM snapshot

2.3.2. Backup local files

```
cp /opt/prodiguer/ops/config SOMEWHERE_ON_THE_MACHINE  
cp /opt/prodiguer/ops/logs/web SOMEWHERE_ON_THE_MACHINE
```

3. DB server deployment

3.1. Set environment variables (definitions are [here](#))

- PRODIGUER_DB_MONGO_HOST
 - default = localhost:27017
- PRODIGUER_DB_MONGO_USER_PASSWORD
- PRODIGUER_DB_PGRES_HOST
 - default = localhost:5432
- PRODIGUER_DB_PGRES_USER_PASSWORD
- PRODIGUER_HOME
 - default = /opt/prodiguer

3.2. Update source

prodiguer-stack-update-source

3.3. Update aliases

source /opt/prodiguer/aliases.sh

3.4. Update virtual environments

prodiguer-stack-update-venvs

3.5. Update config

prodiguer-stack-update-config

3.6. Migrate pgres database to new schema

prodiguer-db-pgres-migrate

3.7. Reset controlled vocabulary table.

prodiguer-db-pgres-cv-table-reset

4. MQ server deployment

4.1. Set environment variables (definitions are [here](#))

- PRODIGUER_DB_MONGO_HOST
 - see backed up prodiguer.json
- PRODIGUER_DB_MONGO_USER_PASSWORD
 - see backed up prodiguer.json
- PRODIGUER_DB_PGRES_HOST
 - see backed up prodiguer.json
- PRODIGUER_DB_PGRES_USER_PASSWORD
 - see backed up prodiguer.json
- PRODIGUER_HOME
 - default = /opt/prodiguer
- PRODIGUER_MQ_IMAP_PASSWORD
 - see backed up prodiguer.json
- PRODIGUER_MQ_RABBIT_HOST
 - default = localhost:5671
- PRODIGUER_MQ_RABBIT_LIBIGCM_USER_PASSWORD
 - see backed up prodiguer.json
- PRODIGUER_MQ_RABBIT_SSL_CLIENT_CERT
 - default = /opt/prodiguer/ops/certs/rabbitmq/client-cert.pem
- PRODIGUER_MQ_RABBIT_SSL_CLIENT_KEY
 - default = /opt/prodiguer/ops/certs/rabbitmq/client-key.pem
- PRODIGUER_MQ_RABBIT_USER_PASSWORD
 - see backed up prodiguer.json
- PRODIGUER_MQ_SMTP_PASSWORD
 - see backed up prodiguer.json
- PRODIGUER_WEB_URL
 - default = <https://prodiguer-test-web.ipsl.fr>

4.2. Update source

prodiguer-stack-update-source

4.3. Update aliases

source /opt/prodiguer/aliases.sh

4.4. Update virtual environments

prodiguer-stack-update-venvs

4.5. Update config

prodiguer-stack-update-config

4.6. Update RabbitMQ broker definitions

4.6.1. Open admin UI

Navigate to: <http://prodiguer-test-mq.ipsl.fr:15672/#>

4.6.2. Import new definitions

- Expanding the 'Import / export definitions' panel
- Clicking 'Upload broker definitions' button
- Select file: /opt/prodiguer/templates/config/mq-rabbit.json

4.6.3. Notify me

I will then verify that all is good (i.e. I may need to delete obsolete queue bindings)

4.7. Update supervisor daemon configuration

rm /opt/prodiguer/ops/config/mq-supervisord.conf

cp /opt/prodiguer/templates/config/mq-supervisord.conf /opt/prodiguer/ops/config

4.8. Purge debug queues

prodiguer-mq-purge-debug-queues

5. WEB server deployment

5.1. Set environment variables (definitions are [here](#))

- PRODIGUER_CLIENT_WEB_URL
 - default = `https://prodiguer-test-web.ipsl.fr`
- PRODIGUER_DB_MONGO_HOST
 - see backed up `prodiguer.json`
- PRODIGUER_DB_MONGO_USER_PASSWORD
 - see backed up `prodiguer.json`
- PRODIGUER_DB_PGRES_HOST
 - see backed up `prodiguer.json`
- PRODIGUER_DB_PGRES_USER_PASSWORD
 - see backed up `prodiguer.json`
- PRODIGUER_HOME
 - default = `/opt/prodiguer`
- PRODIGUER_WEB_HOST
 - default = `localhost:8888`

5.2. Update source

`prodiguer-stack-update-source`

5.3. Update aliases

`source /opt/prodiguer/aliases.sh`

5.4. Update virtual environments

`prodiguer-stack-update-venvs`

5.5. Update config

`prodiguer-stack-update-config`

5.6. Update supervisor daemon configuration

`rm /opt/prodiguer/ops/config/web-supervisord.conf`

`cp /opt/prodiguer/templates/config/web-supervisord.conf /opt/prodiguer/ops/config`

6. System Restart

6.1. Restart WEB server

prodiguer-web-daemons- init
nginx start

6.2. Restart MQ server

prodiguer-mq-daemons-init