

# Prodiguer Platform - Server Deployment Notes

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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

## 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