


Verfahrensbeschreibungen Manager

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Leibniz-Rechenzentrum
der Bayerischen Akademie der Wissenschaften

Verfahrensbeschreibungen Manager

Diese Applikation ermöglicht es schnell und einfach Verfahrensbeschreibungen, sicher authentifiziert durch den Datenschutzbeauftragten und andere Mitarbeiter:

- zu erstellen
- zu bearbeiten
- zu löschen
- zu signieren und damit freizugeben
- mit Zeitstempeln zu versehen
- zu suchen, sortieren und verwalten
- zu exportieren
- (zu archivieren)
- (in einem Workflow zu behandeln)

Die Führung und Verwaltung von Verfahrensbeschreibungen und des zugehörigen Verzeichnis werden laut dem Bayerischen Datenschutzgesetzes (BayDSG) verlangt und sind konkret in Artikel [26](#) und [27](#) definiert.

Um die Funktionalitäten dieses Tools zu verwenden, müssen Sie sich mit Ihrem LRZ Active Directory Benutzer anmelden.

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Erstellt mit Meteor

Procedure Description Manager

INSTALLATION MANUAL

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KURZFASSUNG

With this installation manual, it should be possible to set up the application on a fresh Debian 8 Linux machine.

It is a very technical and simple manual, with step-by-step instructions that basically just need to be copied and perhaps modified to fit the individual server setup.

All information written in *italics* are commands that can just be copied as is and might need to be changed slightly to fit the system-specific configuration.

Prerequisites

Create User:

adduser dstool

Update package manager and install dependencies:

apt-get update

apt-get upgrade

apt-get install curl g++ gcc make # to build node

*apt-get install build-essential g++ flex bison gperf ruby perl *

*libsqlite3-dev libfontconfig1-dev libicu-dev libfreetype6 libssl-dev *

libpng-dev libjpeg-dev python libx11-dev libxext-dev # to build webshot/phantomjs

apt-get install rsync # for syncing files

Install node:

su dstool

cd

Use any text-editor to create the file `node-install.sh` with the contents:

echo „echo 'export PATH=\$HOME/local/bin:\$PATH' >> ~/.bashrc

. ~/.bashrc

mkdir ~/local

mkdir ~/node-latest-install

cd ~/node-latest-install

curl https://nodejs.org/dist/v0.10.40/node-v0.10.40.tar.gz | tar xz --strip-components=1

./configure --prefix=~/local

make install # ok, fine, this step probably takes more than 30 seconds...

curl https://www.npmjs.com/install.sh | sh

chmod +x node-install.sh

```
./node-install.sh
```

```
curl https://install.meteor.com/ | sh  
echo `export PATH=$HOME/.meteor:$PATH` >> ~/.bashrc
```

```
exit
```

Create service:

Use any text-editor to create the file/etc/systemd/system/dstool.service with the contents:

```
[Service]  
ExecStart=/home/dstool/local/bin/node /var/dstool/bundle/main.js  
Restart=always  
StandardOutput=syslog  
StandardError=syslog  
SyslogIdentifier=dstool  
User=dstool  
Group=dstool  
Environment=NODE_ENV=production  
Environment=MONGO_URL=mongodb://localhost/meteor  
Environment=ROOT_URL=https://dstool.srv.lrz.de  
Environment=PORT=4000  
Environment=PATH=/usr/bin  
Environment=NODE_TLS_REJECT_UNAUTHORIZED=0 // for ldap  
[Install]  
WantedBy=multi-user.target
```

```
mkdir /var/dstool  
chown dstool:dstool /var/dstool  
systemctl enable dstool
```

Install MongoDB:

```
sudo apt-get install mongodb
```

Create Service for MongoDB:

Use any text-editor to create the file/etc/systemd/system/mongodb.service with the contents:

```
[Unit]
Description=NoSQL database
After=network.target
[Service]
ExecStart=/usr/bin/mongod --quiet --config /etc/mongodb.conf
Restart=always
StandardOutput=syslog
StandardError=syslog
SyslogIdentifier=mongodb
User=mongodb
Group=mongodb
Environment=LC_ALL=C
[Install]
WantedBy=multi-user.target
```

Enable Service for MongoDB:

```
systemctl enable mongodb
```

Setup Apache2 Proxy:

```
apt-get install apache2
a2enmod rewrite
a2enmod proxy
a2enmod proxy_http
a2enmod proxy_wstunnel
a2enmod ssl
```

Create TLS certificate:

```
# create ssl dir
mkdir /etc/apache2/ssl
openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout /etc/apache2/ssl/dstool.key -out /etc/
apache2/ssl/dstool.crt
chmod -R 600 /etc/apache2/ssl
```

Use any text-editor to create the file /etc/apache2/sites-available/dstool.conf with the contents:

Define meteorport "4000"

```
<VirtualHost *:80>
    ServerAdmin webmaster@12steiert.de

    ServerName dstool.srv.lrz.de

    RewriteEngine on
    RewriteCond %{SERVER_PORT} !^443$
    # This allows DDP clients like ObjectiveDDP and Meteor-Unity to connect
    RewriteRule ^/websocket wss://%{HTTP_HOST}/websocket [NC,R,L]
    # This allows the meteor webapp to connect
    RewriteRule ^/sockjs/(.*)/websocket wss://%{HTTP_HOST}/sockjs/$1/websocket [NC,R,L]
    RewriteRule ^/(.*) https://%{HTTP_HOST}/$1 [NC,R,L]

</VirtualHost>
<VirtualHost *:443>
    ServerAdmin webmaster@12steiert.de
    ServerName https://dstool.srv.lrz.de

    SSLEngine on

    SSLProxyEngine On
    ProxyRequests Off # Disable forward proxying

    # This allows DDP clients like ObjectiveDDP and Meteor-Unity to connect
    ProxyPass /websocket ws://localhost:${meteorport}/websocket

    # This allows the meteor webapp to connect
    ProxyPassMatch ^/sockjs/(.*)/websocket ws://localhost:${meteorport}/sockjs/$1/websocket
```

```
ProxyPass / http://localhost:${meteorport}/  
ProxyPassReverse / http://localhost:${meteorport}/
```

```
SSLCertificateFile /etc/apache2/ssl/dstool.crt  
SSLCertificateKeyFile /etc/apache2/ssl/dstool.key
```

```
BrowserMatch "MSIE [2-6]" \  
    nokeepalive ssl-unclean-shutdown \  
    downgrade-1.0 force-response-1.0  
# MSIE 7 and newer should be able to use keepalive  
BrowserMatch "MSIE [17-9]" ssl-unclean-shutdown
```

```
</VirtualHost>
```

```
a2ensite dstool  
service apache2 restart
```

```
apt-get install ldap-utils
```

```
# taken from https://ldapwiki.com/wiki/Obtain%20a%20Certificate%20from%20Server#section-Obtain+a  
+Certificate+from+Server-UsingLdapsearch  
ldapsearch -x -T ~/ -t -h your-edirectory-host.yourdomain.com -b "cn=Security"  
objectclass=nDSPKICertificateAuthority cACertificate  
openssl x509 -inform der -in ~/ldapsearch-cACertificate-FS7uCC -out ~/ldapservice.pem
```

add ldapservice.pem to project and set up for ssl

add file to /etc/ssl/certs

```
c_rehash  
update-ca-certificates
```

```
mkdir /var/archives  
chown -R dstool:dstool /var/archives
```

Add process.env.ARCHIVE_PATH in config file /etc/systemd/system/dstool.service

Copy all project files to the dstool user's home-directory in a folder named pdmanager-src

In /home/dstool/pdmanager-src execute:

`./deploy-server`

The server should then be built on the machine and deployed to the folder /var/dstool before restarting the service.
