



appNGizer Platform installation guide

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Build Version 1.26.2-SNAPSHOT created 2023-05-05

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This guide describes how to setup the appNG platform with appNGizer.

1. appNGizer setup

1.1. Shared secret

REST clients that use appNGizer must establish a session. This is done by sending a `sharedSecret` via POST request to the `login URL`. A successful login response will contain a session cookie, that the client must accept and provide in all subsequent requests.

The `sharedSecret` will be preset to a default value during the first start of the appNG platform. If the manager application is installed, administrators can look up the value in the `Platform properties` tab.

In headless installations an individual value can be set with the appNG CLI.

```
% ./appng update-property -n platform.sharedSecret -v <sharedSecret>
```

1.2. Login

URL: <http://localhost:8080/appNGizer/>

Method: POST



The trailing slash is mandatory otherwise the request gets redirected as GET request to that location and the authentication procedure is not performed!



The login request is the only one, that must be sent with the header `Content-Type=text/plain`. All other **PUT** and **POST** requests have to use the header `Content-Type=text/xml`.

Request Body: (plain text format!)

```
<sharedSecret>
```

Response Body:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<appngizer version="0.12.0" self="http://localhost:8080/appNGizer/" xmlns=
"http://www.appng.org/schema/appngizer">
  <links>
    <link name="site" self="http://localhost:8080/appNGizer/site" />
    <link name="application" self="http://localhost:8080/appNGizer/application" />
    <link name="subject" self="http://localhost:8080/appNGizer/subject" />
    <link name="group" self="http://localhost:8080/appNGizer/group" />
    <link name="repository" self="http://localhost:8080/appNGizer/repository" />
    <link name="platform" self="http://localhost:8080/appNGizer/platform" />
  </links>
</appngizer>
```

2. Enable messaging

URL: <http://localhost:8080/appNGizer/platform/property/messagingEnabled>

METHOD: PUT

BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<property xmlns="http://www.appng.org/schema/appngizer" name="messagingEnabled">
  <value>true</value>
  <defaultValue>>false</defaultValue>
  <description>Set to true to enable cluster messaging</description>
</property>
```

URL: <http://localhost:8080/appNGizer/platform/property/messagingReceiver>

METHOD: PUT

BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<property xmlns="http://www.appng.org/schema/appngizer" name="messagingReceiver">
  <value>org.appng.core.controller.messaging.RabbitMQReceiver</value>
  <defaultValue>org.appng.core.controller.messaging.MulticastReceiver</defaultValue>
  <description>Define messaging implementation by referring class name. Default
method is multicast </description>
</property>
```

3. Set required platform properties for messaging

In the example we use RabbitMQ as message broker.

URL: <http://localhost:8080/appNGizer/platform/property>

METHOD: POST

BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<property xmlns="http://www.appng.org/schema/appngizer" name="rabbitMQHost">
  <value></value>
  <defaultValue>192.168.0.188</defaultValue>
  <description>the host for RabbitMQ</description>
</property>
```

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<property xmlns="http://www.appng.org/schema/appngizer" name="rabbitMQUser">
  <value></value>
  <defaultValue>appng</defaultValue>
  <description>the user for RabbitMQ</description>
</property>
```

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<property xmlns="http://www.appng.org/schema/appngizer" name="rabbitMQPassword">
  <value></value>
  <defaultValue>s3cr3t</defaultValue>
  <description>the password for RabbitMQ</description>
</property>
```

4. Create a Repository

URL: <http://localhost:8080/appNGizer/repository>

METHOD: POST

BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<repository xmlns="http://www.appng.org/schema/appngizer" name="Remote">
  <remoteName>pdev0-all</remoteName>
  <uri>http://appng.s-ait-p-dev0.aitintra.de/service/appng/appng-
manager/soap/repositoryService</uri>
  <enabled>>true</enabled>
  <strict>>false</strict>
  <published>>false</published>
  <mode>ALL</mode>
  <type>REMOTE</type>
</repository>
```

5. Install appng-authentication

URL: <http://localhost:8080/appNGizer/repository/Remote/install>

METHOD: PUT

BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<package xmlns="http://www.appng.org/schema/appngizer" name="appng-authentication">
  <displayName>Authentication</displayName>
  <version>0.9.3</version>
  <timestamp>20150710-1037</timestamp>
  <installed>>false</installed>
  <type>APPLICATION</type>
</package>
```

5.1. Make it a hidden privileged application

URL: <http://localhost:8080/appNGizer/application/appng-authentication>

METHOD: PUT

BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<application xmlns="http://www.appng.org/schema/appngizer" name="appng-authentication">
  <displayName>Authentication</displayName>
  <core>>true</core>
  <fileBased>>true</fileBased>
  <hidden>>true</hidden>
  <version>0.9.3</version>
</application>
```

6. Install appng-manager

URL: <http://localhost:8080/appNGizer/repository/Remote/install>

METHOD: PUT

BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<package xmlns="http://www.appng.org/schema/appngizer" name="appng-manager">
  <displayName>Manager</displayName>
  <version>0.12.1</version>
  <timestamp>20170426-0634</timestamp>
  <installed>>false</installed>
  <type>APPLICATION</type>
</package>
```

6.1. Make it a privileged application

URL: <http://localhost:8080/appNGizer/application/appng-manager>

METHOD: PUT

BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<application xmlns="http://www.appng.org/schema/appngizer" name="appng-manager">
  <displayName>Manager</displayName>
  <core>>true</core>
  <fileBased>>true</fileBased>
  <hidden>>false</hidden>
  <version>0.12.1</version>
</application>
```

7. Install appng template

URL: <http://localhost:8080/appNGizer/repository/Remote/install>

METHOD: PUT

BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<package xmlns="http://www.appng.org/schema/appngizer" name="appng-template">
  <displayName>appng</displayName>
  <version>0.14.2</version>
  <timestamp>20170620-0832</timestamp>
  <installed>>false</installed>
  <type>TEMPLATE</type>
</package>
```

8. Create a Site

URL: <http://localhost:8080/appNGizer/site>

METHOD: POST

BODY:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<site xmlns="http://www.appng.org/schema/appngizer" name="manager">
  <host>localhost</host>
  <domain>http://localhost:8080</domain>
  <active>>true</active>
</site>
```

9. Assign applications to the site

URL:

<http://localhost:8080/appNGizer/site/manager/application/appng-authentication>

<http://localhost:8080/appNGizer/site/manager/application/appng-manager>

METHOD: POST

BODY: <none>

10. Create a user

URL: <http://localhost:8080/appNGizer/subject>

METHOD: POST

BODY:


```
<subject xmlns="http://www.appng.org/schema/appngizer" name="admin">
  <realName>appNG Administrator</realName>
  <email>admin@appng.org</email>
  <description></description>
  <digest>@ppNG$42</digest>
  <timeZone>Europe/Berlin</timeZone>
  <language>en</language>
  <type>LOCAL_USER</type>
  <groups>
    <!-- assign user to the built-in Administrators group -->
    <group name="Administrators" />
  </groups>
</subject>
```

11. Restart appNG

URL: <http://localhost:8080/appNGizer/platform/reload>

METHOD: POST

12. Login into Site

Visit

<http://localhost:8080/manager>

and login with the user created in the step before

13. Trigger a site reload

URL: <http://localhost:8080/appNGizer/site/manager/reload>

METHOD: PUT

Visit <http://localhost:8080/manager/manager/appng-manager/sites> to see how the startup time of the manager site changed!