

Kodi & Alexa

<https://forum.kodi.tv/showthread.php?tid=254502> <https://lexigr.am/docs/getting-started.html>

1.) An Amazon developer profile is required for custom Alexa skills. Log in with normal amazon account on this page and create a developer account: <https://developer.amazon.com/>

2.) NodeJS framework v8.11.1 is required. Do not use default ubuntu package of NodeJS as this is an older version. Installation using NVM <https://github.com/nvm-sh/nvm#installation-and-update>

```
wget -qO- https://raw.githubusercontent.com/nvm-sh/nvm/v0.34.0/install.sh | bash
```

close and reopen terminal after installation

3.) Install NodeJS 8.11.1

```
nvm install 8.11.1  
nvm use 8.11.1
```

4.) Install lexigram-cli

```
npm install -g lexigram-cli
```

5.) Use the cli to log in to Amazon and initialise the Alexa skill (Kanzi)

```
lexigram login --no-browser true  
# select default profile and confirm with yes to enter Amazon credentials  
# copy url into browser, grant access and paste the resulting Auth key back  
into terminal
```

6.) Download an empty config file

```
lexigram init-config
```

7.) Initialise the skill kanzi

```
lexigram init-skill kanzi
```

8.) Kodi setup

Go to settings → system → Services → Web server and allow remote control

1. via http
2. from applications on this system
3. from applications on other systems

Supply username/password

9.) A reverse caching proxy may be useful to cache search results. This is primarily useful for external

access and not for local access, however, even local access may benefit from this.

10.) Adjust configuration file kodi.config with backend/proxy details, local timezone and as required.

```
vi kodi.config
```

```
shutdown = 'quit'  
timezone = Europe/London
```

11.) Set up webserver as target for the alexa command

```
sudo apt-get install apache2 libapache2-mod-wsgi  
sudo a2enmod ssl  
sudo systemctl restart apache2  
sudo mkdir /etc/apache2/ssl  
sudo openssl genrsa -out /etc/apache2/ssl/apache.key 2048  
sudo cat > ssl-key-conf.cnf << EOF  
[req]  
distinguished_name = req_distinguished_name  
x509_extensions = v3_req  
prompt = no  
  
[req_distinguished_name]  
C = GB  
ST = .  
L = .  
O = wuff  
CN = kodi-alexa  
  
[v3_req]  
keyUsage = keyEncipherment, dataEncipherment  
extendedKeyUsage = serverAuth  
subjectAltName = @subject_alternate_names  
  
[subject_alternate_names]  
DNS.1 = wuff.dyndns.org  
EOF  
  
openssl req -new -x509 -days 365 -key /etc/apache2/ssl/apache.key -config  
ssl-key-conf.cnf -out /etc/apache2/ssl/apache.crt  
  
sudo vi /etc/apache2/apache.conf  
# set ServerName example.dyndns.org  
  
sudo vi /etc/apache2/sites-available/default-ssl.conf  
# set DocumentRoot /var/www/html  
# set SSLCertificateFile /etc/apache2/ssl/apache.crt  
# set SSLCertificateKeyFile /etc/apache2/ssl/apache.key  
# add WSGIScriptAlias /kodi-alexa /var/www/kodi-alexa/alexa.wsgi  
sudo a2ensite default-ssl.conf
```

```
sudo apt-get install python-tz
sudo apt-get install python-pip
sudo pip install flask-ask
sudo pip install kodi-voice
sudo pip install python-Levenshtein

sudo systemctl restart apache2
```

12.) Deploy kanzi

```
cp -r /home/kodi/kanzi/source/repo /var/www/kodi-alexa
chown -R www-data:www-data /var/www/kodi-alexa

lexigram deploy kanzi
```

Set invocation name (2 for kodi) #set skill server to local ip address

<https://example.dyndns.org/kodi-alexa>

possible adjustment required. not sure if external access is absolutely required.

In Alexa Skill Set, Add your IP and service name as the HTTPS URL:
<https://XXXX.ddns.net/kodi-alexa>
Upload x509 certificate file for the endpoint (copy the
/etc/apache2/ssl/apache.crt to the local PC or use cat and copy & paste the
code into a local text file and upload that text file.

Finally, if you haven't already, you'll have to open your apache server to
the Internet with port forwarding.

13.) To limit requests to your own alexa skill only, use the skill ID and
add it to kodi.config

<code>

```
skill_id = [set to amzn1.ask.skill.xxxxxxx as per url on
developer.amazon.com
```

then re-deploy

```
lexigram deploy kanzi
```

Updates

```
npm upgrade -g lexigram-cli
lexigram deploy kanzi
```

From:

<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:

<http://wuff.dyndns.org/doku.php?id=kodi:kodi-alexa&rev=1597532057>

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