SUNBIRD-INSTALLATION

Prerequisites

- → A system, running Ubuntu server 16.04 LTS.
- → Ekstep API keys to access the Ekstep content repository.
- → Create a common linux user having root privileges (e.g. deployer) on all the servers.

How to generate Ekstep API key

- → Go to <u>qa.ekstep.in</u> and request for API access to the Ekstep admin
- → After we get response from the admin to our notified mail, We can Generate new credentials.
- → From there we generate key and secret.
- → Then go to <u>JSON Web Tokens</u> <u>iwt.io</u> to generate API key

```
HEADER: ALGORITHM & TOKEN TYPE
                       ALGORITHM USED
   "alg": "HS256".
                       HS256
   "typ": "JWT"
PAYLOAD: DATA
                              YOUR
          'YOUR GENERATED KEY"
                              GENERATED
                              KEY
VERIFY SIGNATURE
HMACSHA256 (
  base64UrlEncode(header
                       YOUR GENERATED
  base64UrlEncode(payload)
                       SECRET
  secret base64 encoded
```

Creating a common linux User

- → Need to connect the servers using ssh.
- → Generate a public key in the linux user

```
$ ssh-keygen -t rsa
$ cd home/ekstep/.ssh
ekstep@VM_IP:~/.ssh$ cat id_rsa.pub >> ~/.ssh/authorized_keys
```

Install git and clone the project

```
apt-get update -y && apt-get install git -y
git clone https://github.com/project-sunbird/sunbird-devops.git
cd sunbird-devops/deploy
```

Fill up the config file

\$ vi config

```
env: dev # Name of the environment you are deploying.
```

implementation_name: ntp # Name of your sunbird implementation.

ssh_ansible_user: ekstep # Ssh user for accessing all servers, who must be a sudo user

sudo_passwd: 123 # If user have sudo password, else please skip it

ansible_private_key_path: /home/ekstep/.ssh/id_rsa

Missing those days?

Next, Next, Agree, Install



Installation stages

9 stages:

sanity, deps, config, dbs, apis, proxy, keycloak, badger, core

Run each step with command:

\$./sunbird_install.sh -s <stage_name>

Installation stages

Stage 0 - sanity: \$./sunbird_install.sh -s sanity

Stage 1 - deps: \$./sunbird_install.sh -s deps

Stage 2 - config: \$./sunbird_install.sh -s config

Stage 3 - dbs : \$./sunbird_install.sh -s dbs

Stage 4 - apis : \$./sunbird_install.sh -s apis

Installation stages

Stage 5 - proxy: \$./sunbird_install.sh -s deps

Stage 6 - keycloak : \$./sunbird_install.sh -s deps

Stage 7 - badger : \$./sunbird_install.sh -s deps

Stage 8 - core : \$./sunbird_install.sh -s deps

Verify the installation

https://[domain-name]

[domain-name] = <host address>

Consumption of APIs

- → Organization Management
- → User Management
- → Roles Assignment

API Consumption using Postman tool

15 Roles Available in Sunbird

- → ORG_ADMIN
- → COURSE_MENTOR
- → CONTENT_REVIEWER
- → ADMIN
- → TEACHER_BADGE_ISSUER
- → BOOK_CREATOR
- → BOOK_REVIEWER
- → OFFICIAL_TEXTBOOK_BADGE_ISSUER

15 Roles Available in Sunbird

- → COURSE_CREATOR
- → COURSE_ADMIN
- → ORG_MODERATOR
- → PUBLIC
- → CONTENT_CREATOR
- → ANNOUNCEMENT_SENDER
- → FLAG_REVIEWER

QUESTIONS?

Thank You !!!