# Projekt 1.

## Instrukcja do wdrożenia aplikacji

1. Na Cloud9 opartym na Ubuntu instalujemy terraforma i ansibla.

```
sudo snap install terraform --classic
pip install --user ansible
```

Dla potwierdzenia instalacji możemy uruchomić poniższe komendy:

```
terraform -version ansible -version
```

2. Klonujemy repozytorium.

```
https://github.com/astypczy/ZRCwAW.git
```

3. Wchodzimy do folderu terraform i uruchamiamy kolejno komendy:

```
terraform init; terraform plan; terraform apply;
```

- 4. Czekamy na zakończenie działania procesu.
- 5. Używając ssh łączymy się z dwiema instancjami.

```
ssh -i <KEY PAIR> ubuntu@<EC2 PUBLIC IP>
```

6. Na maszynie Backend uruchamiamy aplikację używając:

```
java -jar /opt/ZRCwAW/ec2/backend/target/project-0.0.1-SNAPSHOT.jar
```

7. Na maszynie Frontend uruchamiamy aplikację poprzez komendy:

```
cd /opt/ZRCwAW/ec2/frontend
sudo ng serve --host 0.0.0.0 --port 4200
```

- 8. Czekamy na zbudowanie aplikacji.
- 9. Po zbudowaniu możemy wejść na stronę: http://52.20.47.142:4200.
- 10. Można korzystać z aplikacji.

# Tworzenie Cognito

Step 2 Configure security requirements	Authentication providers Configure the providers that are available to	o users when they sign in			
Step 3 Configure sign-up experience	Provider types  Choose whether users will sign in to your Cognito user pool, a federated identity provider, or both. Amazon Cognito has different pricing for federated users and user pool users. Learn more about pricing [ ]				
Step 4 Configure message delivery	Cognito user pool Users can sign in using their email ad number, or user name. User attribute memberships, and security settings	es, group	☐ Federated identity providers  Users can sign in using credentials from social identity providers like Facebook, Google, Amazon, and Apple; or using credentials from external directories through SAML or Open ID Connect. You can manage user attribute mappings and security for federated users in your user pool.		
Step 5 Integrate your app	configured in your user pool.	vit ne storeu and			
Step 6 Review and create		are used to sign in. If yo I of the selected options	u select only one attribute, or you select a user name and at least one If you select only phone number and email, your user will be b.		
	⚠ Cognito user pool sign-in option	ons can't be changed	after the user pool has been created.		
			Cancel Next		
Password policy Int	<b>fo</b> Jefine the length and complexity of the	passwords your u	sers can set.		
Password policy mode	Info				
<ul> <li>Cognito defaults</li> <li>Use default password requirements.</li> </ul>			Custom Use password requirements that you define.		
Password minimum lengt 8 character(s)	th				
Password requirements					
Contains at least 1 numb	er				
Contains at least 1 specia	l character				
Contains at least 1 upper	case letter				
Contains at least 1 lower	case letter				

O Paguiro MEA	Ontional MEA	A No. 1	454	
Require MFA - Recommended	Optional MFA Users can sign in with a single	O No N	TFA can only sign in with a	
Users must provide an additional	authentication factor, and can choose to add additional	single authentication factor. This is the least secure option.		
authentication factor when signing in.	authentication factors.			
3.59	]			
User account recovery				
Configure how users will recover their account	unt when they forget their password. Recipient i	message and data	rates apply.	
Calf comics account recovery				
Self-service account recovery Info	Barrana dad			
✓ Enable self-service account recover Allow forgot-password operations in volume	<b>ery - Recommended</b> our user pool. In the hosted UI sign-in page, a "Fo	orant vour nassw	ord?" link is displayed. Wi	hen
	ors reset passwords with the Cognito API.	orgot your passwe	ora: tilik is displayed. Wi	iieii
Delivery method for user account rec	covery messages Info	de CMC		hu
	separately by Amazon SES. <mark>Learn more about pr</mark>		s are charged separately	Бу
<ul><li>Email only</li></ul>				
○ SMS only				
○ Email if available, otherwise SMS				
SMS if available, otherwise email				
<ul> <li>SMS if available, otherwise email,</li> </ul>	, and allow a user to reset their password	via SMS if they	are also using it for N	MFA
		Cancel	Previous	Next
onfigure sign-up ex	(perience Info			
ermine how new users will verify thei	ir identities when signing up and which at	tributes should	be required or option	nal
ing the user sign-up flow.				
Self-service sign-up Info				
Choose whether new users of your app can	register for an account themselves.			
Self-registration Info				
- 1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5		A.D.(- A		1-7-
	and to the best of the second state of the sec	nation or crosto no		DIE:
	age in the hosted UI, and allow the use of public idministrative API operations create user profiles		w user accounts, when the	1113
Display a "Sign up" link on the sign-in pa			w user accounts, when u	
Display a "Sign up" link on the sign-in pa feature is not enabled, federation and a	dministrative API operations create user profiles	5.		
Display a "Sign up" link on the sign-in particle feature is not enabled, federation and a   1 If you activate user sign-up in your sign-up in		n sign up for an	account and sign in	to

### Cognito-assisted verification and confirmation Info

#### Automatically send

Allow Cognito to automatically send messages to verify and confirm - Recommended

Amazon Cognito sends a verification message with a code that the user must enter. For new users, this will verify the attribute and confirm their account.

Don't automatically send messages

Amazon Cognito doesn't send messages to users who add or change an attribute. Update attributes and confirm users with administrative API operations or Lambda triggers.

#### Attributes to verify Info

Choose the user contact attribute that Cognito will send a verification message to. Recipient message and data rates apply when you use

Send SMS message, verify phone number

Verify with SMS to allow users to use their phone number for sign-in, MFA, and account recovery. SMS messages are charged separately by Amazon SNS.

Send email message, verify email address

Verify with email to allow users to use their email address for sign-in, MFA, and account recovery. Email messages are charged separately by Amazon SES.

Send SMS message if phone number is available, otherwise send email message

You must build custom code when you want to verify both email and phone numbers at user account creation.

### Verifying attribute changes Info

Keep original attribute value active when an update is pending - Recommended

### Active attribute values when an update is pending Info

Choose the attributes that you want to keep active when an update to their value is pending. Your users can receive messages and sign in with the original attribute value until they verify the new value.

- Phone number
- Email address
- Phone number and email address

#### Required attributes Info

Choose the attributes that are required when a new user is created. Cognito assigns all users a set of standard attributes based on the OpenID Connect (OIDC) standard.

Required attributes based on previous selections

Additional required attributes

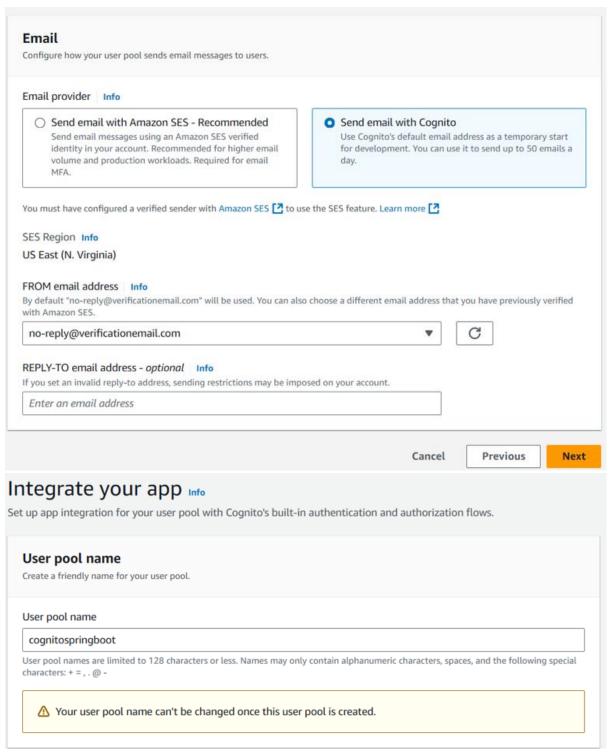
Select attributes

▼
given\_name X | family\_name X | email X

Required attributes can't be changed once this user pool has been created.

Custom is Seller: String

dodatkowo dodajemy

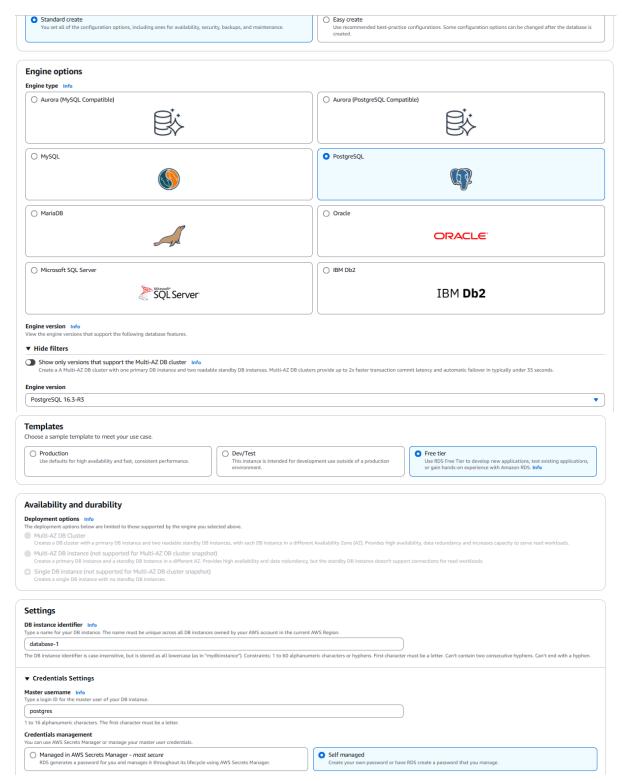


Nie używamy hosted ui

Wybieramy Public client, Don't generate a client secret, reszta opcji domyślnie Cognito zostało skonfigurowane.

## Tworzenie RDS

W zakładce RDS tworzymy instancję.



Resztę opcji zostawiamy domyślnie.

# Tworzenie instancji EC2

### Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

