

# NAME: KSHITIJ GUPTA

# Enrolment Number: 21162101007

## Sub: CS

## Practical-11 [Batch-71]

**Task:** User Signup: Allow users to sign up via the Cloud Directory in App ID and manage their authentication.

### Create APP-ID service

The screenshot shows the IBM Cloud App ID service creation interface. The top navigation bar includes tabs for Catalog, Manage, and a user profile. The main page title is "App ID - IBM Cloud". The left sidebar has sections for Catalog, App ID (selected), User Authentication and User Profiles for your apps, Create, About, Type Service, Provider IBM, Last updated 09/10/2024, Category Security, Compliance EU Supported Financial Services Validated HIPAA Enabled IAM-enabled, and Location Sydney, Frankfurt, London, Tokyo, Washington DC, Dallas, São Paulo, Toronto, Osaka. The "Create" tab is selected. The "About" section shows "Summary" details: App ID, Location: Sydney, Plan: Lite, Service name: App ID-007, Resource group: Ganpat-2021-Sem6-rg. The "Provider IBM" section shows "Select a location" with "Sydney (au-syd)" selected. The "Category Security" section shows "Select a pricing plan" with a note: "Displayed prices do not include tax. Monthly prices shown are for country or location: India". A table titled "Plan" lists "Graduated tier" with the description: "Your first 1000 authentication events and first 1000 authorized users are free each month. All advanced security events have a cost." It also includes a link "Click to view tiers and pricing detail". The "Features and capabilities" section lists: - Authentication events occur when an access token or an anonymous token is issued. Tokens can be issued as a response to a sign-in request initiated by a user, or on behalf of the user by an app. By default access tokens last for 1 hour and anonymous tokens last for 30 days. - If you have turned on one or more of the following advanced capabilities, authentication events are, in addition, advanced security events: Two-Factor Authentication, Runtime Activity, or Advanced Password Policy. - Authorized users include any unique user that has signed-in by using your service, or is otherwise added to your service, including anonymous users. Example: if a user signs-in with Facebook and later signs-in by using Google, they are considered two separate authorized users. The right side of the screen shows a summary of the service: "I have read and agree to the following license agreements: Terms". Buttons for "Create" and "Add to estimate" are visible at the bottom.

Inbox (977) - kshitijpgupta21@... | App ID - IBM Cloud | Cloud\_Security\_2CSE709\_2024 | Practical-11.rar - Google Drive | Google Drive - Virus scan warning | +

cloud.ibm.com/catalog/services/app-id?planId=c0258a22-160a-403b-845d-1588ad61204c

**IBM Cloud**

Dallas  
Sao Paulo  
Toronto  
Osaka

Related links:  
[API docs](#)  
[Docs](#)  
[Terms](#)

- Authorized users include any unique user that has signed-in by using your service, or is otherwise added to your service, including anonymous users. Example: If a user signs-in with Facebook and later signs-in by using Google, they are considered two separate authorized users.

Multi-Tiered

**Financial Services Validated**

**Lite** **1000 monthly events and 1000 authorized users.** **Free**

Authentication events occur when a token is issued. Tokens can be issued as a response to a sign-in request initiated by a user, or on behalf of the user by an app. Authenticated tokens last for 1 hour and anonymous tokens last for 30 days. Authorized users include any unique users that log in by using your service, including anonymous users. Example: If a user logs in with Facebook and later logs in by using Google, they are considered two separate authorized users.

**Financial Services Validated**

1000 monthly events and 1000 authorized users.  
Lite plan services are deleted after 30 days of inactivity.

**Configure your resource**

Service name: **App ID-007**  
Select a resource group: **Ganpat-2021-Sem6-rg**

Tags: **kshitij gupta**

I have read and agree to the following license agreements:  
[Terms](#)

**Create**

**Add to estimate**

Type here to search 28°C Haze 09:27 17-10-2024

Inbox (977) - kshitijpgupta21@... | IBM Cloud App ID Dashboard | Cloud\_Security\_2CSE709\_2024 | Practical-11.rar - Google Drive | Google Drive - Virus scan warning | +

cloud.ibm.com/appid?panel=manage&tenantId=crn%3Av1%3Abluemix%3Apublic%3Aappid%3Aau-syd%3Aa%2F9553f5f7184ddb922a056f240cf78ef6%3A9226bf7e-f7...

**IBM Cloud**

Resource list / **App ID-007** Active kshitij gupta

**Overview**

Manage Authentication  
Cloud Directory  
Identity Providers  
Profiles and roles  
Login Customization  
Applications  
Service credentials  
Plan

Welcome to App ID

Begin building secure and engaging digital applications with App ID authentication by following this step-by-step walkthrough. Get started with a working sample.

**Download sample**

Already have an application? Learn how to [add App ID](#).

**Explore App ID**

- Getting started? Explore related links and samples to learn more about App ID.
- Catch up with the latest news from App ID. [View the release notes](#).
- Learn how to get the most out of App ID. [Go to our docs page](#).
- Protect your Node.js front-end web applications with App ID. [Get started with a simple authentication flow in less than 20 minutes by following this guide](#).
- Ensure the security of your Liberty for Java back-end applications with App ID. [In less than 20 minutes, get a simple authentication flow up and running by using this guide](#).
- Harness the power of user attributes with App ID. [Learn how to customize your user experience with this step-by-step guide](#).

**Watch tutorials**

Check out the tutorials on our [Youtube channel](#).

**White Paper**

The App ID Whitepaper covers a range of topics, including an overview of the App ID service, our development and operations principles, App ID usage patterns, and an explanation of App ID capabilities.

[Read more](#)

Type here to search 28°C Haze 09:33 17-10-2024

# create Credential

Resource list / App ID-007 Active kshitij gupta

Create credential

Control by Secrets Manager Register an instance for managing service credentials.

Access required Service authorization between this service and Secrets Manager will be created.

Secrets Manager instances: Secrets Manager-i6

Secrets Manager groups: default

Name: Service-credentials-1

Role: Manager

Advanced options

Cancel Add

Resource list / App ID-007 Active kshitij gupta

Create credential

Control by Secrets Manager Register an instance for managing service credentials.

Name: Service-credentials-1

Role: Manager

Select Service ID (Optional)

Auto Generate

Provide service-specific configuration parameters in a valid JSON object (Optional)

Choose file

Add inline configuration parameters (Optional)

Cancel Add

Cloud Directory Settings

Create a scalable user registry for your apps so that users can sign-up and sign-in with either a username or email and a password. You can decide the level of self-service that you want your users to have by setting the configurations on this page.

Allow users to sign-up and sign-in using:

- Email and password
- Username and password

Allow users to sign-up to your app

- Yes
- No

Allow users to manage their account from your app

- Yes
- No

## Change the Credential with give credential

```

File Edit Selection View Go Run ... ↵ → ⌘ app_id_local
EXPLORER APP_ID_LOCAL
  > node_modules
  > public
  JS app.js
  JS app2.js
  {} package-lock.json
  {} package.json
  OUTLINE
  TIMELINE
JS app.js > redirectUri
1 const express = require('express');
2 const session = require('express-session');
3 const passport = require('passport');
4 const WebAppStrategy = require('ibmcloud-appid').WebAppStrategy;
5 const app = express();
6 var port = 3000;
7 app.use(session({
8   secret: '123456',
9   resave: true,
10  saveUninitialized: true
11 }));
12 app.use(passport.initialize());
13 app.use(passport.session());
14
15
16 passport.serializeUser((user, cb) => cb(null, user));
17 passport.deserializeUser((user, cb) => cb(null, user));
18
19 passport.use(new WebAppStrategy({
20   tenantId: "9226bf7e-f7e7-4146-a38a-56998d80352b",
21   clientId: "680bc435-78e9-4cc1-9f3b-1d1cad77062f",
22   secret: "ZjhKjk2NGQtMzUxOc00YNU5LWf1YTITnGE4OTHmYjNiNjhmm",
23   oauthServerUrl: "https://au-syd.appid.cloud.ibm.com/oauth/v4/9226bf7e-f7e7-4146-a38a-56998d80352b",
24   redirectUri: "http://localhost:3000/appid/callback"
25 }));
26
27
28 app.get('/appid/login', passport.authenticate(WebAppStrategy.STRATEGY_NAME, {
29   successRedirect: '/',
30   forceLogin: true
})
Ln 24, Col 55 (36 selected) Tab Size: 4 UTF-8 CRLF {} JavaScript
Type here to search 28°C Haze 09:43 17-10-2024

```

Resource list / App ID-007 Active kshitij gupta

IBM Cloud Catalog Manage 2716063 - IBM India Pvt Ltd, C/o S...

Details Actions...

Success! Changes saved successfully

Manage identity providers

Identity providers Authentication settings

Add web redirect URLs

Registering your redirect\_uri with App ID ensures that only authorized clients are allowed to participate in the authorization workflow. Make sure you register the redirect\_uri of applications that you trust. For more information about redirects, see the docs.

http://localhost:3000/appid/cs

Sign-in Expiration

Change the lifetime period of App ID OAuth tokens. For more information, see our documentation.

Refresh token Days 30 Refresh token can be used to sign-in without the need for user interaction. The optional range is between 1 to 90 days. A smaller value means that the app user will need to interactively sign-in more often. Disable refresh tokens to mandate interactive sign-in.

Access token Minutes 60 Access token and identity token are required for authentication and authorization with back-end resources. The optional range is between 5 to 1440 minutes. A smaller value means higher security in the case of token theft. Note that new access tokens are counted as authentication events in the pricing plan.

Type here to search

## Run the Code

Inbox (977) - kshitijgupta | IBM Cloud App ID Dashboard | Cloud\_Security\_2CSE | Practical-11.rar - Google Drive - Virus scan | Google Drive - Virus scan | Download history | Simple Node Web App

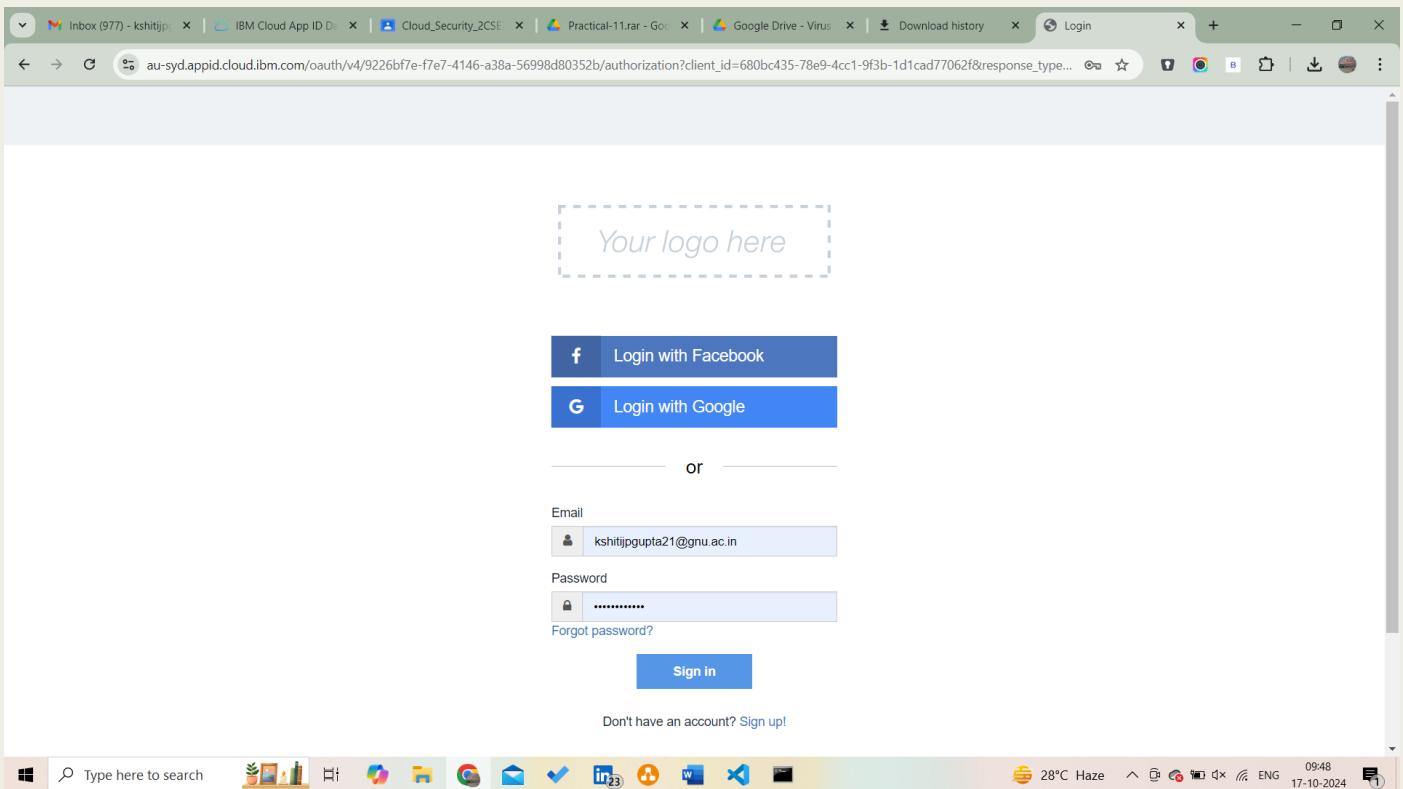
localhost:3000

Hello from the app!

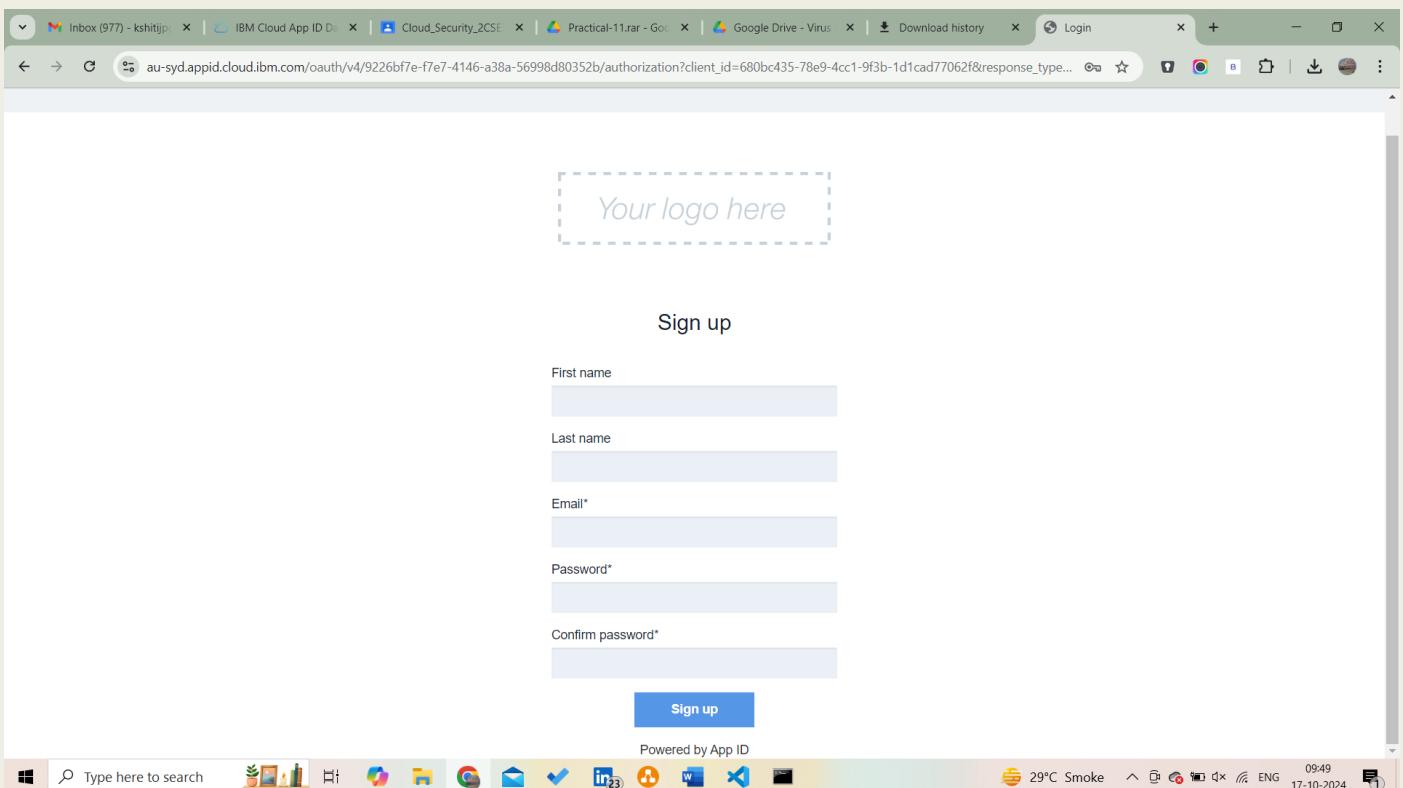
Login

Type here to search

## Click on login and then sign up



Fill the details



Inbox (977) - kshitijpgupta21@gmail.com | IBM Cloud App ID | Cloud\_Security\_2CSE | Practical-11.rar - Google Drive - Virus | Download history | Login

au-syd.appid.cloud.ibm.com/oauth/v4/9226bf7e-f7e7-4146-a38a-56998d80352b/authorization?client\_id=680bc435-78e9-4cc1-9f3b-1d1cad77062f&response\_type=token

Your logo here

Sign up

First name: hello

Last name: pikachu

Email\*: kshitijpgupta21@gnu.ac.in

Password\*: .....

Confirm password\*: .....

Sign up

Powered by App ID

Type here to search 29°C Smoke 09:50 17-10-2024

Inbox (977) - kshitijpgupta21@gmail.com | IBM Cloud App ID | Cloud\_Security\_2CSE | Practical-11.rar - Google Drive - Virus | Download history | Thanks for Signing Up | +

au-syd.appid.cloud.ibm.com/oauth/v4/9226bf7e-f7e7-4146-a38a-56998d80352b/authorization?client\_id=680bc435-78e9-4cc1-9f3b-1d1cad77062f&response\_type=token

Back

Thanks for signing up!

A confirmation of your email is on its way to  
**'kshitijpgupta21@gnu.ac.in'**

After you verify your email,  
you can sign in to the app.

Resend email

Update password?

Username: kshitijpgupta21@gnu.ac.in

Password: .....

Update password No, thanks

You can use saved passwords on any device. They're saved to Google Password Manager for kshitijpgupta21@gnu.ac.in.

Air: Moderate 09:50 17-10-2024

## Received Confirmation Mail

The screenshot shows a Gmail inbox with 99+ unread messages. A new email from "no-reply@appid.cloud.ibm.com" is selected. The subject is "Please Verify Your Email Address hello pikachu". The message body starts with "Hi hello," followed by "Thanks for signing-up!". It includes a "Verify" button and a note about the link being active for 24 hours. A verification URL is provided: [https://au-syd.appid.cloud.ibm.com/wfm/user/v1/9226bf7e-f7e7-4146-a38a-56998d80352b/replyConfirm/5g2gh-rVl76WsrsCx5563vcuFPc-zlbd?templateName=USER\\_VERIFICATION&uid=67ddf5eb-a5b-4da-e56-be210ba7d624&language=undefined](https://au-syd.appid.cloud.ibm.com/wfm/user/v1/9226bf7e-f7e7-4146-a38a-56998d80352b/replyConfirm/5g2gh-rVl76WsrsCx5563vcuFPc-zlbd?templateName=USER_VERIFICATION&uid=67ddf5eb-a5b-4da-e56-be210ba7d624&language=undefined). It also states that if you didn't sign-up with this address, you can ignore the email. The message ends with "Thanks!".

The screenshot shows a Microsoft Edge browser window with the URL [https://au-syd.appid.cloud.ibm.com/oauth/v4/9226bf7e-f7e7-4146-a38a-56998d80352b/cloud\\_directory/show\\_default\\_email\\_confirmed?language=undefined&context=xhDY5...](https://au-syd.appid.cloud.ibm.com/oauth/v4/9226bf7e-f7e7-4146-a38a-56998d80352b/cloud_directory/show_default_email_confirmed?language=undefined&context=xhDY5...). The page features a placeholder for a logo and the text "Thanks for verifying your email!". Below it, a message says "You can now access the app." The browser toolbar at the bottom includes icons for File, Home, Back, Forward, Stop, Refresh, and various Microsoft services like OneDrive, SharePoint, and Teams.

## Email id added in CDS

The screenshot shows the IBM Cloud Platform interface. The left sidebar is collapsed, and the main area displays a table titled "Cloud Directory users". The table has columns: Email, First Name, Last Name, Last Login, and Status. One row is present, showing an email address "kshitijpgupta21@gnu.ac.in", first name "hello", last name "pikachu", last login time "October 17, 2024 9:53 AM", and status "Verified". The top right corner of the table has a "Create User" button. The bottom right corner of the page has a timestamp "09:53 17-10-2024".

## Custom Email Templates:

Send customized email notifications for actions such as signup, password reset, and email verification.

## Edit the HTML for changes

The screenshot shows the IBM Cloud Platform interface for managing email templates. The left sidebar is collapsed, and the main area is titled "Allow users to sign-in to your app without first verifying their email address". A radio button for "No" is selected. Below this, there is a section for "Customize the content, and design the appearance of your message". It includes a subject line "Please Verify Your Email Address %{user.displayName}" and a message body containing the following HTML code:

```
35      </tr>
36      <tr>
37      <td bgcolor="#0099FF" style="padding: 10px; text-align: center; color: #ffffff; font-size: 12px; border-bottom-left-radius: 8px; border-bottom-right-radius: 8px; border-bottom: 1px solid #0099FF; width: 100px; height: 100px; vertical-align: middle; position: relative; width: 100px; height: 100px; margin: auto; border: none; padding: 0; margin-top: 10px;">
38          &copy; 2024 Your Company. All rights reserved.
39      </td>
40      </tr>
41      </tbody>
42      </table>
43  </body>
44 </html>
```

Below the message body, there is a "Message language" dropdown set to "English". Further down, there is a "Reset to default template" link, an "Action URL expiration time (in minutes)" input set to "1440", and a "Thank You page URL" input with the value "e.g. http://your-app.com/email\_verification". The bottom right corner of the page has a timestamp "09:53 17-10-2024".

Screenshot of the IBM Cloud Platform interface showing the configuration of a workflow template. The left sidebar lists various authentication and identity management options. The main area shows a configuration panel for a message template, including fields for Subject, Message content (HTML code), Action URL expiration time (set to 1440 minutes), and a Thank You page URL field.

**Customize the content, and design the appearance of your message.**  
You can include parameters such as: \${user.displayName} \${user.firstName} \${user.lastName} \${user.email} \${user.username} \${display.logo} \${verify.link}.  
For example: Hi \${user.displayName}, Thank you for signing up!

**Subject**  
Please Verify Your Email Address \${user.displayName}

**Message**

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<title>Mail Template</title>
</head>
<body style="margin: 0; padding: 0; background-color: #f4faf4; font-family: 'Gotham', 'Helvetica Neue', Helvetica, Arial, sans-serif;">
<table width="100%" border="0" align="center" cellpadding="10" cellspacing="0" style="max-width: 600px; margin: auto; background-color: #ffffff;">
<tr>
<td align="center" valign="middle" bgcolor="#${display.headerColor}" style="padding: 20px; border-top-left-radius: 8px; border-top-right-radius: 8px; color: white; font-weight: bold; font-size: 16px; text-decoration: none; text-align: center; vertical-align: middle; line-height: 1.2; font-family: inherit; border-bottom: 1px solid #${display.headerColor};">
...</td>

```

**Action URL expiration time (in minutes)**  
1440    - | +    This setting also affects the expiration time of the reset password email.

**Thank You page URL**  
e.g. [http://your-app.com/email\\_verification](http://your-app.com/email_verification)

Cancel    Save

Screenshot of a sign-up form on a web page. The form includes fields for First name, Last name, Email, Password, and Confirm password. A placeholder 'Your logo here' is displayed above the form area.

**Your logo here**

**Sign up**

First name  
hello

Last name  
7 crore

Email\*  
augusten.wilber@mybankloans.org

Password\*  
\*\*\*\*\*

Confirm password\*  
\*\*\*\*\*

**Sign up**

Powered by App ID

minuteinbox.com

# 10 Minute Mail | Disposable 10 Minute Email Address

augsten.wilber@mybankloans.org

From: no-reply@appid.cloud.ibm.com  
Subject: Please Verify Your Email Address hello 7 crore

From: MinuteInbox  
Subject: Welcome to MinuteInbox()

9:30

10 min

Inbox

1 hour

1 day

About

+week

+month

Contact

Time

Copy

Refresh

7 sec. ago

27 sec. ago

© 2024 Copyright: MinuteInbox.com



## UI of the msg is changed

minuteinbox.com/window/id/2

From: no-reply@appid.cloud.ibm.com  
Subject: Please Verify Your Email Address hello 7 crore

Hi hello,

Thanks for signing up!

Please verify your email address by clicking the button below:

[Verify](#)

Note: The link is only active for 24 hours. If you are unable to use the verify button, click the link below or copy and paste it into the address bar of your web browser.

[https://au-syd.appid.cloud.ibm.com/wfm/user/v1/9226bf7e-f7e7-4146-a38a-56998d80352b/replyConfirm/CUIWcwb5OKdAAVBxa6qNfIwodQRIE?templateName=USER\\_VERIFICATION&uid=10e7817f-9a4b-491d-9f8c-069fb37893c&language=en-US](https://au-syd.appid.cloud.ibm.com/wfm/user/v1/9226bf7e-f7e7-4146-a38a-56998d80352b/replyConfirm/CUIWcwb5OKdAAVBxa6qNfIwodQRIE?templateName=USER_VERIFICATION&uid=10e7817f-9a4b-491d-9f8c-069fb37893c&language=en-US)

If you didn't sign up with this address, you can ignore this email.

Thanks!

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# Password Policies: Enforce strong password requirements and password policies for users signing up.

## Enable the password policy

The screenshot shows the 'Advanced password policy' section of the IBM Cloud interface. It includes settings for password repetition, lockout attempts, minimum password change time, password expiration, and password strength. Each setting has a numeric input field with increment/decrement buttons, and an 'Enabled' toggle switch.

- The number of times that a password can't be repeated:** Set to 1.
- The number of times a user can try to sign in before getting locked out:** Set to 2.
- The time a user will be locked out after trying to sign in with wrong credentials:** Set to 1 minute.
- The minimum time between password changes:** Set to 1 hour.
- Password expiration time:** Set to 1 day.
- Password should not contain user ID:** Enabled.

The screenshot shows the 'Password policies' section for an app named 'App ID-007'. It displays a modal window titled 'Password strength' where a regex string is being defined: `(^(?=.*[a-zA-Z])(?=.*[A-Z])(?=.*[0-9])(?=.*[@$!%*?&])[A-Za-z\d\@$!%*?&]{8,}$)`. Other password policy settings are visible in the background.

- Advanced password policy:** Enforce more secure user passwords.
- The number of times that a password can't be repeated:** Set to 1.
- The number of times a user can try to sign in before getting locked out:** Set to 2.
- The time a user will be locked out after trying to sign in with wrong credentials:** Set to 1 minute.
- The minimum time between password changes:** Set to 1 hour.

Screenshot of the IBM Cloud App ID service configuration page for App ID-007.

The left sidebar shows navigation options: Overview, Manage Authentication, Cloud Directory, Settings, Password Policies (selected), Email Templates, Multi-factor authentication, Single Sign-on, Users, Identity Providers, Profiles and roles, Login Customization, Applications, Service credentials, and Plan.

The main content area is titled "Password policies". It explains that password policies help enforce more secure passwords. A success message at the top right says "Success! Changes saved successfully".

Under "Define password strength", there is a section for "Advanced password policy" which is enabled. It specifies that users must follow certain rules when creating a password:

- The number of times a password can't be repeated: Set to 1.
- The number of times a user can try to sign in before getting locked out: Set to 2.
- The time a user will be locked out after trying to sign in with wrong credentials: Set to 1 minute.
- The minimum time between password changes: Enabled.

A toolbar at the bottom includes icons for search, file operations, and system status (29°C, Smoke, 10:26, 17-10-2024).

## REGEX is enable

Screenshot of a custom sign-up form for "au-syd.appid.cloud.ibm.com".

The form has a placeholder "Your logo here" at the top.

Form fields include:

- First name: hello
- Last name: Govind
- Email\*: novel94974@abact.com
- Password\*: A password field containing "\*\*\*\*\*" is highlighted with a red border, indicating it does not meet strength requirements. A message below it says "The password doesn't meet the strength requirements."
- Confirm password\*: A password field containing "\*\*\*\*\*".

A blue "Sign up" button is at the bottom.

At the very bottom, it says "Powered by App ID".

A toolbar at the bottom includes icons for search, file operations, and system status (BSE midcap -1.12%, 10:31, 17-10-2024).

Inbox | IBM C | Cloud\_ | Downl | Maha | Maha | ChatG | W3ScI | Temp | Thank | Resou | Cloud\_ | +

temp-mail.org/en/view/67109a2f3f7a000029129400

Mail Template

Hi hello,

Thanks for signing up!

Please verify your email address by clicking the button below:

**Verify**

Note: The link is only active for 24 hours. If you are unable to use the verify button, click the link below or copy and paste it into the address bar of your web browser.

[https://au-syd.appid.cloud.ibm.com/vfm/user/v1/9226bf7e-f7e7-4146-a38a-56998d80352b/replyConfirm/mSPPv-Kjmadgi\\_Cc1O4r9So01VTSsEf7e780fb638cf&language=en-US](https://au-syd.appid.cloud.ibm.com/vfm/user/v1/9226bf7e-f7e7-4146-a38a-56998d80352b/replyConfirm/mSPPv-Kjmadgi_Cc1O4r9So01VTSsEf7e780fb638cf&language=en-US)

If you didn't sign up with this address, you can ignore this email.

Thanks!

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Quick Heal Total Security

Suspicious website blocked.

Browsing Protection

Website - <https://s3.au-syd.cloud-object-storage.appdomain.cloud>

Proceed Anyway

This is a mistake. Report

Inbox | IBM C | Cloud\_ | Downl | Maha | Maha | ChatG | W3ScI | Temp | Thank | Resou | Cloud\_ | +

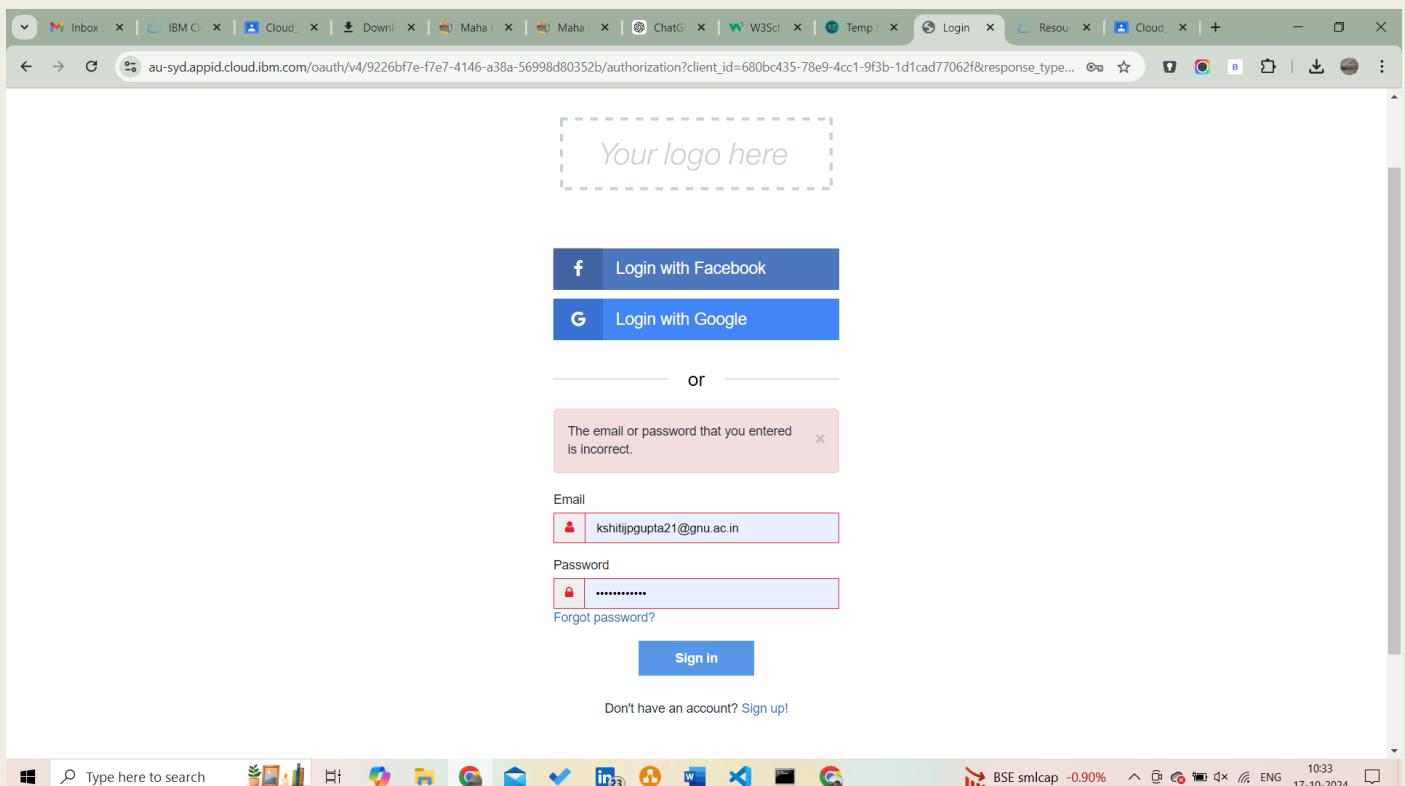
au-syd.appid.cloud.ibm.com/oauth/v4/9226bf7e-f7e7-4146-a38a-56998d80352b/cloud\_directory/show\_default\_email\_confirmed?language=en-US&context=3uQbSTnT...

Your logo here

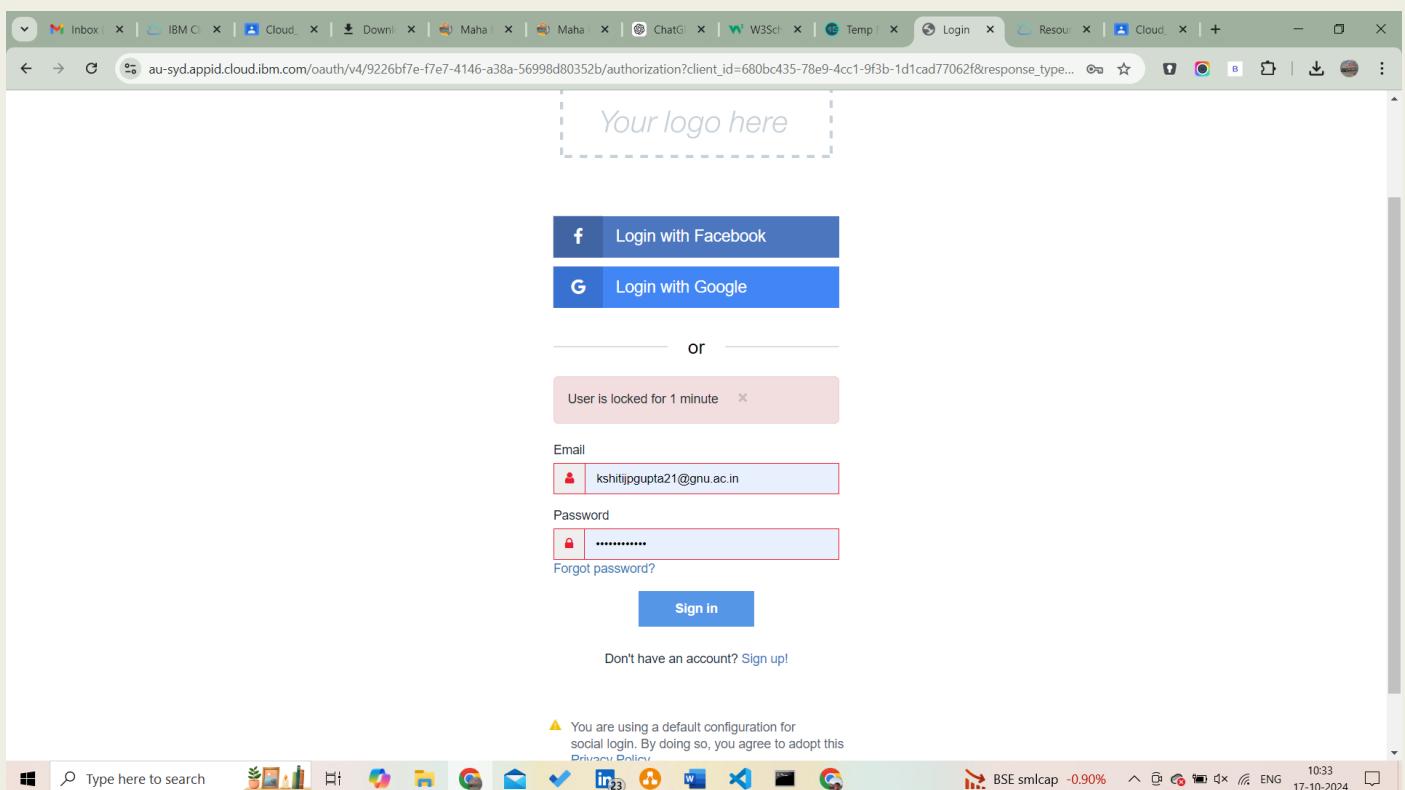
Thanks for verifying  
your email!

You can now access the app.

29°C Smoke 10:32 17-10-2024



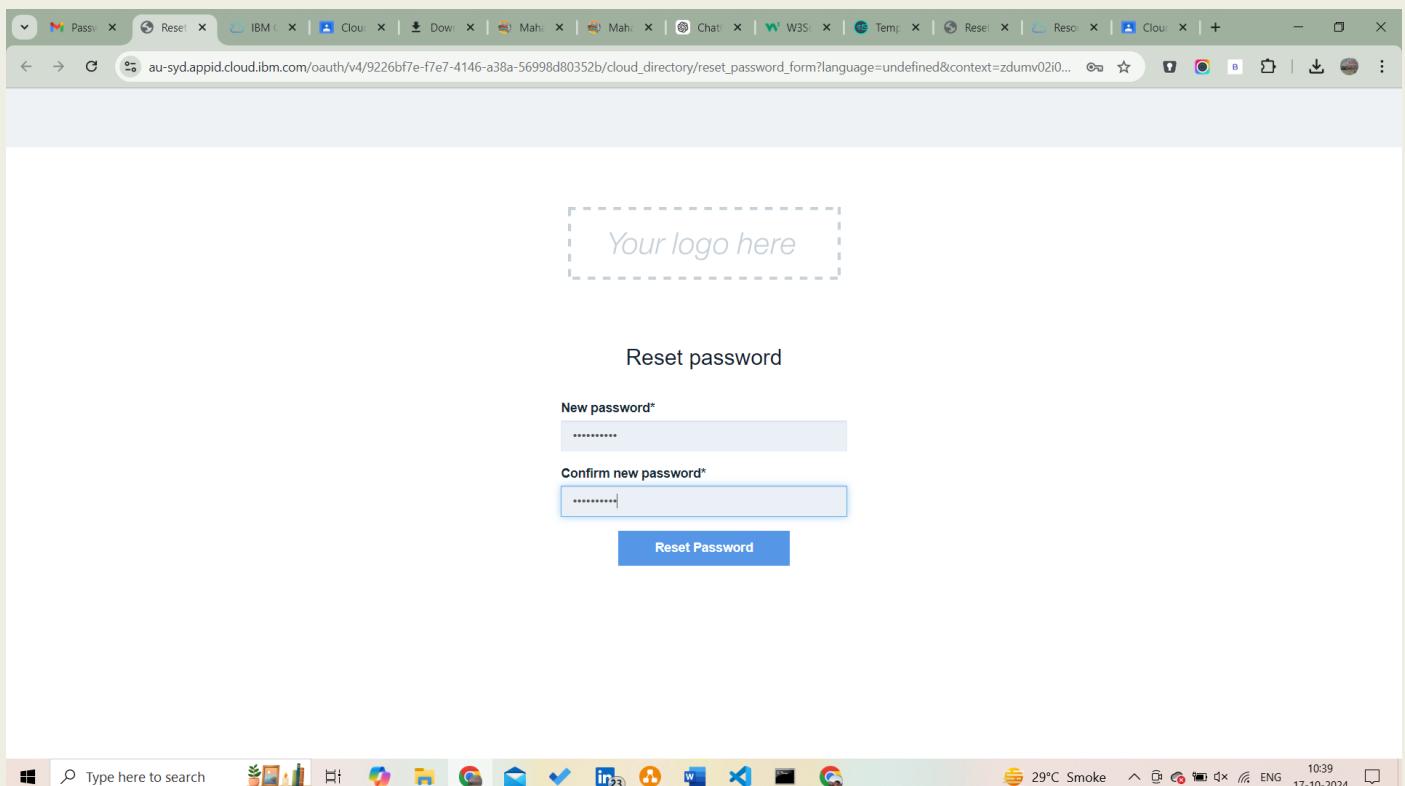
## Blocking of user is enable:



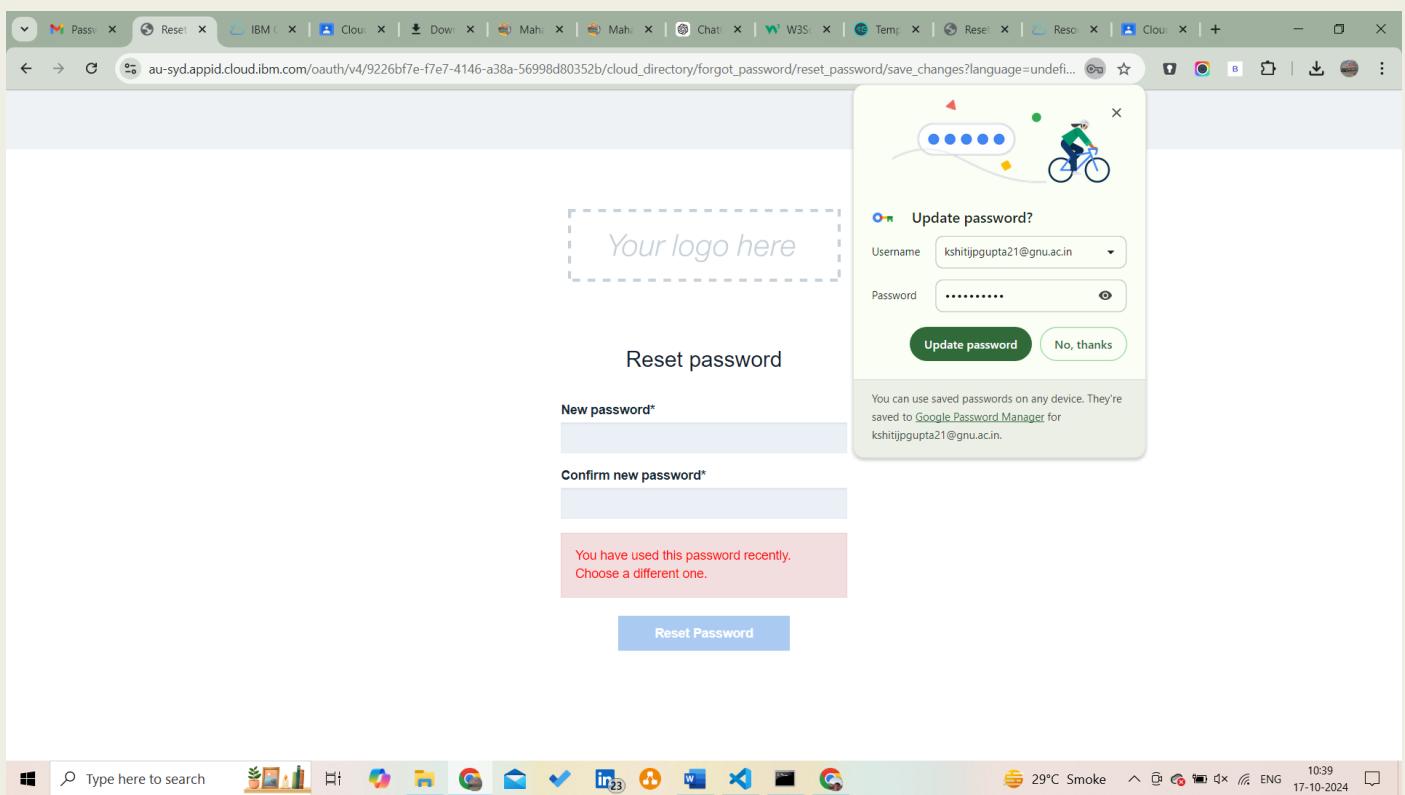
## Locking of Email is enable

The screenshot shows a password reset form. At the top, there is a placeholder for a logo: "Your logo here". Below it, a message reads: "Enter the email that you used when you signed up and we'll send you instructions to reset your password." A text input field labeled "Email\*" is present. Below the input field, a red error message says "Email cannot be sent because user is locked". A blue "Reset password" button is at the bottom.

The screenshot shows a password reset page with a success message: "We've sent you an email to reset your password". Below the message is an envelope icon containing a document. A text message below the icon says "Check your email. 'kshitijpgupta21@gnu.ac.in'". A blue "sign in" button is visible. Further down, a "Resend email" link is provided, followed by a note: "If you don't see our email right away, be sure to check your spam folder." The status bar at the bottom shows "NIFTY -0.53%" and the date "17-10-2024".



## Same password can't be entered again

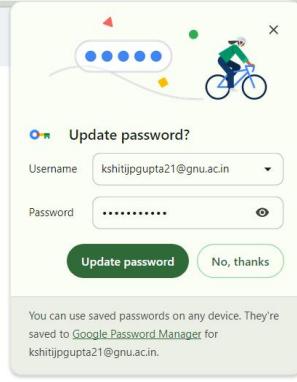


Your password has been changed



Your password has been changed for your account  
kshitijpgupta21@gnu.ac.in

You can now sign in with your new [credentials](#).



Hello from the app!

[Logout](#)

Hello hello pikachu