Group – 11 : Capstone Project NextGen Cloud

Group Members:

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Amazon Web Services

Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform, offering over 175 fully featured services from data centers globally. Millions of customers—including the fastest-growing startups, largest enterprises, and leading government agencies—are using AWS to lower costs, become more agile, and innovate faster.

Developed by Amazon, there are now over 165 different services, ranging from databases to machine learning tools

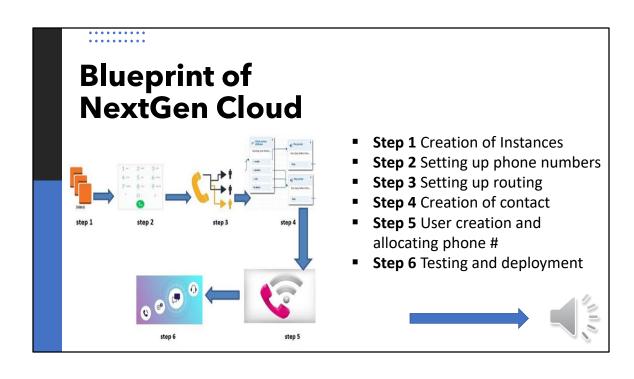


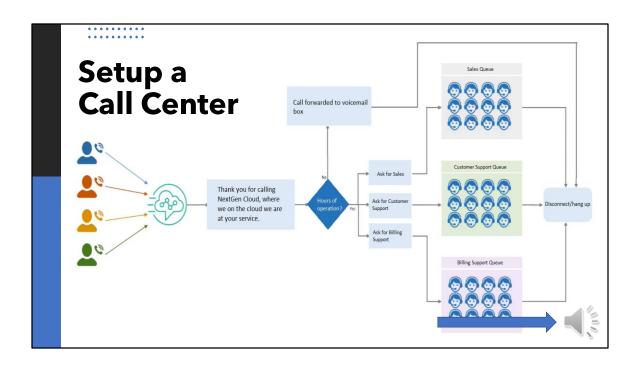
Amazon Connect

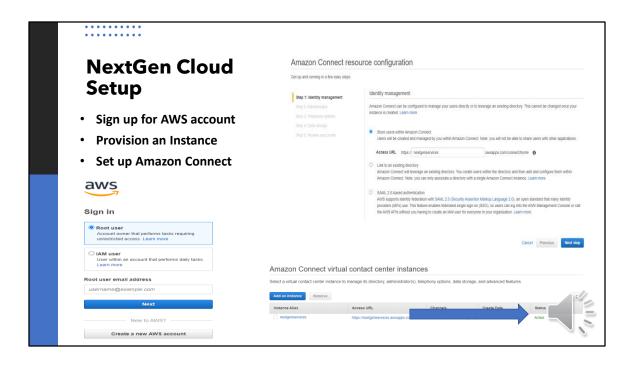
Amazon Connect is an omnichannel cloud contact center. You can <u>set up a contact center in</u> a few steps, add agents who are located anywhere, and start engaging with your customers.

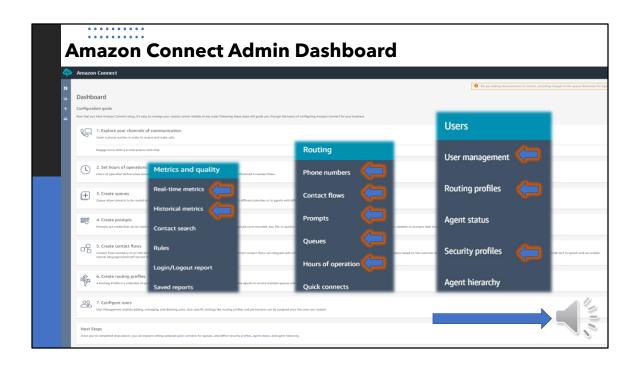
You can create personalized experiences for your customers using omnichannel communications. For example, you can dynamically offer chat and voice contact, based on such factors as customer preference and estimated wait times. Agents, meanwhile, conveniently handle all customers from just one interface. Amazon Connect is an open platform that you can integrate with other enterprise applications, such as Salesforce. In addition, you can take advantage of the AWS ecosystem to innovate new experiences for your customers





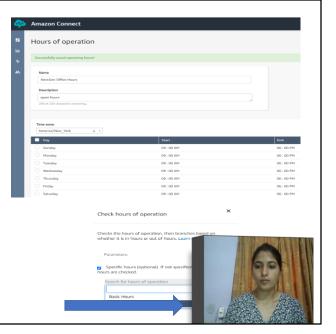






Setting Hours of Operation

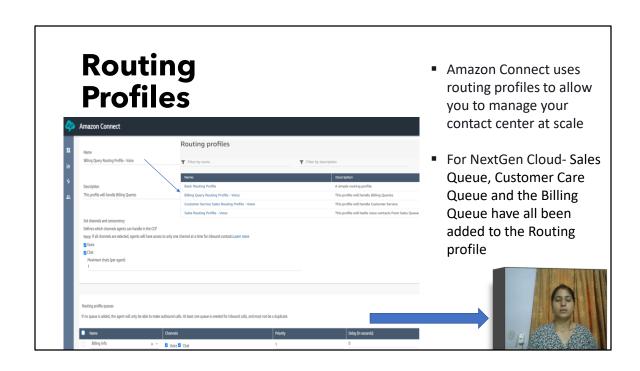
- Set the **Hours of operation** for a queue
- Choose Routing and Office Hours
- Time zone, select a value
- For Adding new, set new hours
- We can specify these the hours of operation when we create a queue, and check them in the Check hours of operation block

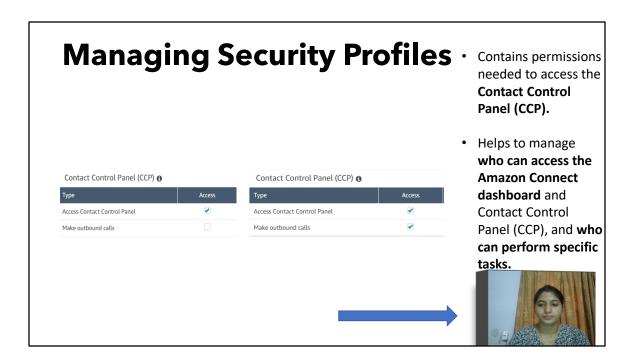


User Management

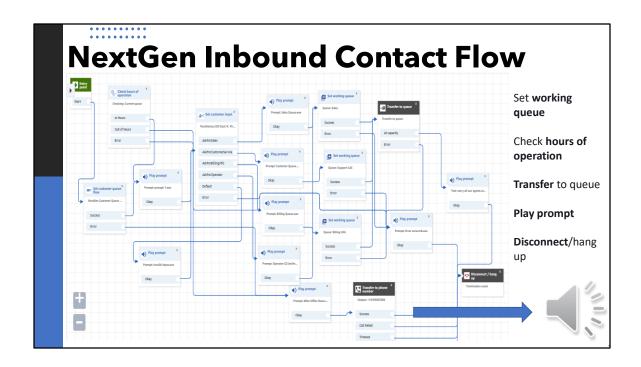
Login name	Name	Routing profile	Security profile
manpreet	Kaur, Manpreet	Billing Query Routing Pro	QualityAnalyst Agent-Inbound CallCenterManager
Megha	Navin, Megha	Billing Query Routing Pro	QualityAnalyst Agent-Inbound Agent-Outbound
Mkadmin	Kaur, Manpreet	Basic Routing Profile	Agent-Inbound Agent-Outbound Admin
Navdeep	Kaur, Navdeep	Customer Service Sales Ro	Agent-Inbound Agent-Outbound
Sumanth	Mohan, Sumanth	Sales Routing Profile - Voice	Agent-Inbound Agent-Outbound Admin

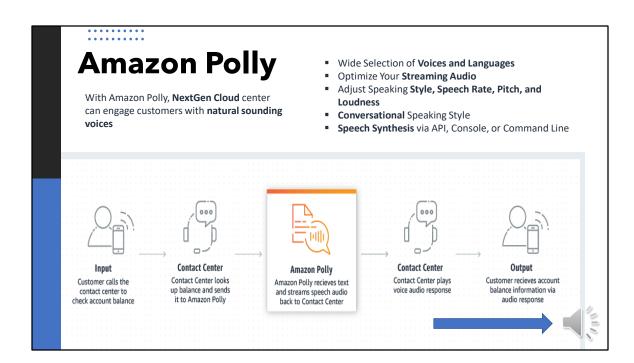
- ☐ The user management profile is nothing but managing the agents, assigning mangers, quality analysis
- ☐ API to make **changes to routing profiles** assigned to users, which lets you e agents to busier queues during periods of **high call volume**
- ☐ For NextGen, 5 user profiles have been created

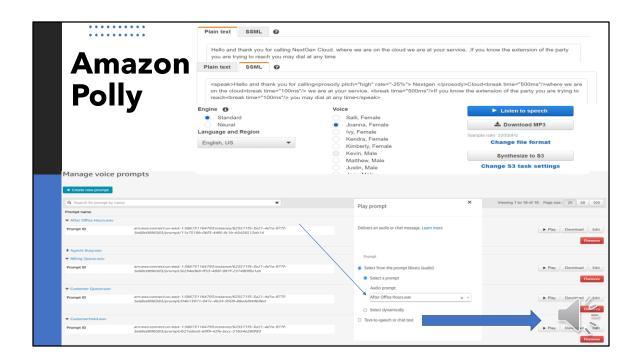




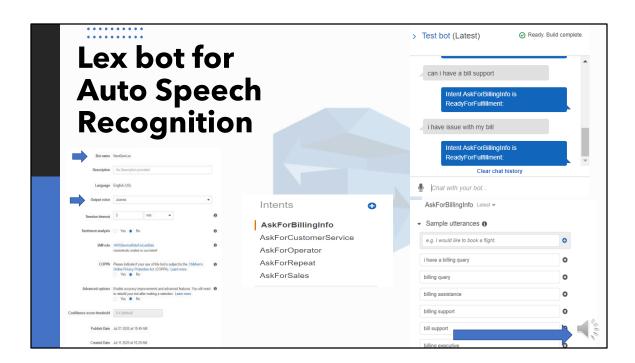
	Block	Contact	Customer Queue Flow	Customer Hold Flow	Customer Whisper Flow	Outbound Whisper Flow	Agent Hold Flow	Agent Whisper Flow	Transfer to Agent Flow	Transfer to
	Play Prompt	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes
	Get Customer Input	Yes	Yes	No	No	No	No	No	Yes	Yes
Contact Flow	Store Customer Input	Yes	Yes	No	No	No	No	No	Yes	Yes
	Loop Prompts	No	Yes	Yes	No	No	Yes	No	No	No
	Hold customer or agent	Yes	No	No	No	No	No	No	Yes	Yes
pes of Contact Flow	Call Phone Number	No	No	No	No	Yes	No	No	No	No
	Start Media Streaming	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes
Contact flow (Generic)	Stop media streaming	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes
•	Set working queue	Yes	No	No	No	No	No	No	Yes	Yes
ustomer queue flow	Set Contact Attributes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ustomer hold flow	Change routing priority/age	Yes	Yes	No	No	No	No	No	Yes	Yes
	Set logging behavior	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ustomer whisper flow	Set call recording behavior	Yes	Yes	No	No	Yes	No	No	Yes	Yes
•	Set hold flow	Yes	Yes	No	No	Yes	No	No	Yes	Yes
tbound whisper flow	Set customer queue flow	Yes	No	No	No	No	No	No	Yes	Yes
nt hold flow	Set whisper flow	Yes	Yes	No	No	No	No	No	Yes	Yes
	Set disconnect flow	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
whisper flow	Set Callback number	Yes	Yes	No	No	No	No	No	Yes	Yes
	Set voice Get Queue metrics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sfer to agent flow	Check Queue status	Yes Yes	Yes	Yes No	Yes No	Yes No	Yes No	Yes No	Yes	Yes
sfer to queue flow	Check Staffing	Yes	Yes	No.	No No	No No	No	NO No	Yes	Yes
nisier to queue now	Check hours of operation	Yes	Yes	No	No	No.	No	No.	Yes	Yes
	Check contact attributes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Distribute by percentage	Yes	Yes	No	No	Yes	No	No	Yes	Yes
	Loop	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Wait	Yes	Yes	No	No	No	No	No	No	No
	Invoke AWS Lambda function	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Disconnect/hangup	Yes	Yes	No	No	No	No	No	Yes	Yes
	End flow/Resume	No	Yes	No	Yes	Yes	No	Yes	No	No
	T	V	Wee	No	No	No	No	No	Yes	Yes
				No	No	No	No	No	Yes	Yes
	Transfer to Agent	No	No	No	No	No	No	No	Yes	Yes
	nsfer to flow	Yes	No	No	No	No	No	No	Yes	Yes



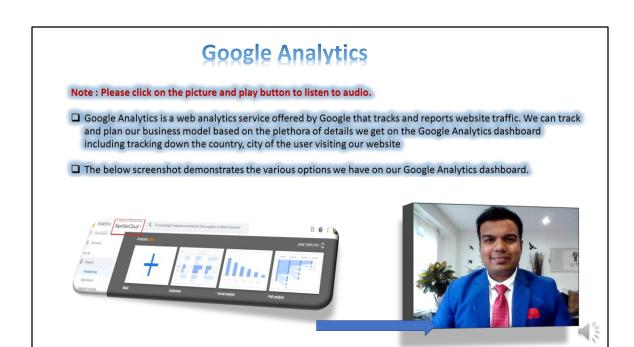


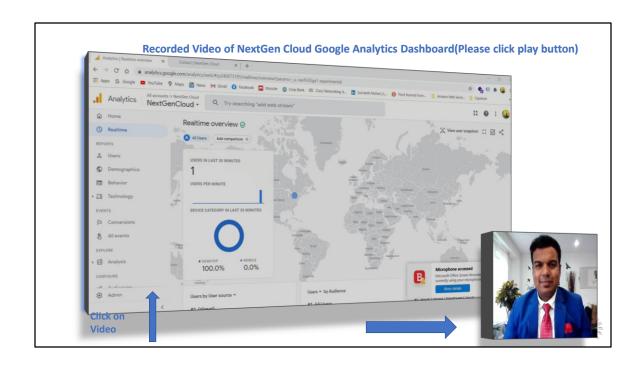


Amazon Lex ☐ **High quality speech** recognition Supported and natural language programming languages understanding Python ☐ Multi-turn conversations ■ .NET ☐ Utility **Prompts** Node.js ☐ One-click Deployment to ■ PHP Multiple Platforms Ruby ☐ Powerful Lifecycle Management Go Capabilities C++ ☐ 8 kHz Telephony Audio Support Java









Google Tag Management

☐ Google Tag Manager is a tool that allows us to manage and deploy marketing tags (snippets of code or tracking pixels) on your website (or mobile app) without having to modify the code.

Why did we need the GTM on NextGen Cloud?

One of the Primary Reasons we Implemented the Google Tag Management on both our website and application was to detect and update real time traffic coming into our website and application. This is part of our business model to get more users to Join the NextGen Cloud Platform and for potential business expansion.

NextGen Cloud Website

☐ The Website https://www.nextgencloud.xyz/ has been Implemented on the Google Tag Manager (GTM) and we are now tracking Website traffic on Google Analytics (GA). We have Implemented two tags on the website, one the Global Tag and one is the conversion Tag.

☐ Below is the Logo of NextGen Cloud with the tagline "We are on the cloud; we are at your service"





NextGen Cloud Application

- ☐ In an Era of Omni-channel operations it is important to enable access to users across plethora of platforms. The NextGen Cloud is about ensuring the customer has a very good experience after visiting our plethora of platforms. One such platform which we have extensively worked to develop is the NextGen Cloud Application.
- ☐ As discussed on our weekly reports, we have performed the various operations of developing an application and have demonstrated it on an android platform called Blue stacks as seen in the below







Conclusion

☐ Below is the screenshot of the Lambton College Capstone Project for the Cloud Computing program . Keeping the program needs, business prospects as well as cloud based performance, the NextGen Cloud Intends to address each of these scenarios.

CBD-3384: Cloud Computing Capstone Project

Employers expect candidates to have experience with teamwork in project environments. In this course students (1) work on concrete goals in a small team; (2) develop a cloud based data solution application based on pre-set requirements; and (3) manage deadlines, milestones and deliverables with a client. Students build a complete, deliverable product and present it to the client in a professional manner. The overall product is judged in a competition setting and students are given the chance to win awards. The design must be supported by documented market research, a marketing plan and a business plan.

plan and a business plan.



Future Work

We are committed to carrying the Capstone project beyond the scope of term 3. This Project has given us hands-on experience about plethora of cloud services and has Enabled us to use the knowledge we have gained and transform us into Confident and skillful professionals in the Information technology domain. We as a Team are keen to carry forward this Project:

- ☐ The Team at NextGen Cloud is passionate about cloud computing and would like to deploy the NextGen Cloud across multiple cloud platforms including Microsoft Azure, Google Cloud Platform (GCP), Oracle cloud and IBM Cloud.
- ☐ Due to our Omni-Channel presence, we are willing to try multiple analytics across different cloud platforms.



