

# Seamless Customer Service with Amazon Connect and Alexa, using AI / ML



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### Key Takeaways

- What is Amazon Connect.
- What are AI/ML services on AWS.
- How to utilise these services with Amazon Connect.
- How to integrate Amazon Neptune for data driven decisions on Amazon Connect.





# Amazon Connect



### Simple to use, omnichannel cloud contact center



Amazon Customer Service supports... Amazon strives to be earth's most customer centric company



Dozens of languages

32 countries

### Over 70,000 Customer Service Associates



## So we built it







Easy to use, omnichannel cloud-based contact center service that scales to support businesses of any size



Service Architecture: Multi-Tenant across multiple availability zones connected through low latency links

Telephony Architecture: Host toll-free and direct dial numbers (DID) on our managed network of carriers



# Demol



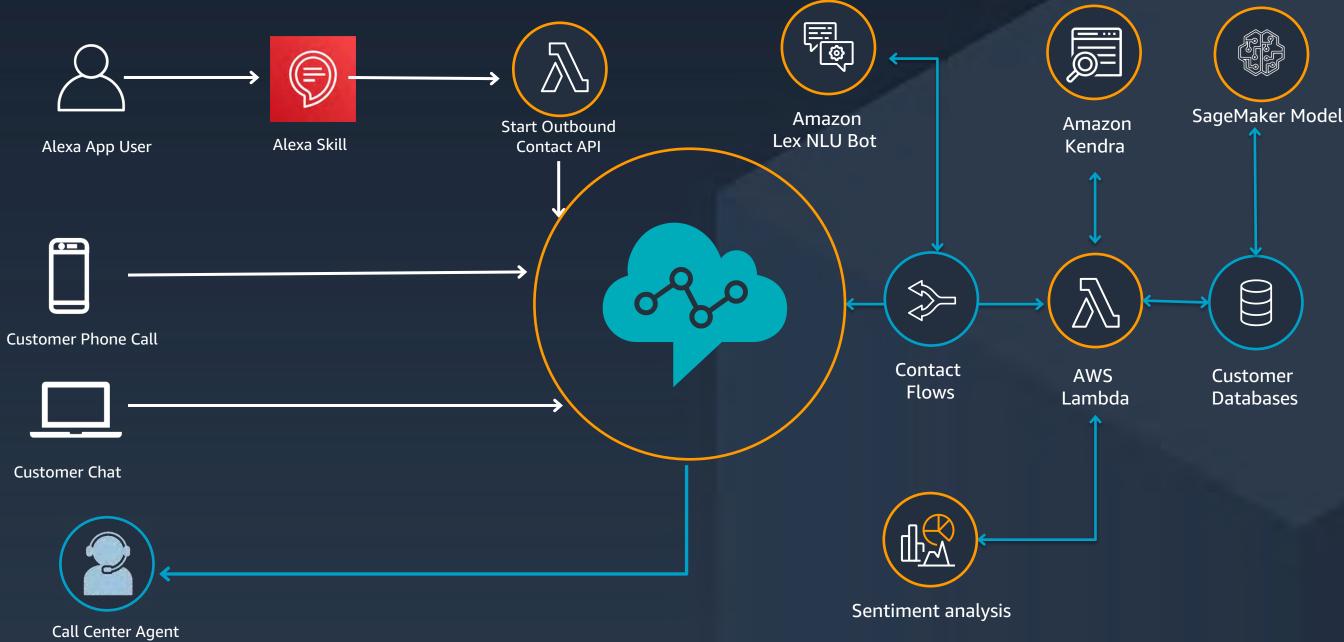








### Demo I Architecture





### Business Drivers

Knowledge of New Customer

Interactive IVR

- 1. Dynamic Prompting and Natural Language Understanding
- 2. Ability to capture, store, and process information in real time

3. Dynamic Routing Capabilities

Knowledge of Existing Customer Base

Gain insights about our customers in order to create unique and correlative personas

- 1. Customer Satisfaction/ Churn
- 2. Customer Purchases

3. Customer Size (Purchasing Power/ Needs)

Dynamic and data driven personas for each sales associate

2. CSAT Scores/ Sentiment

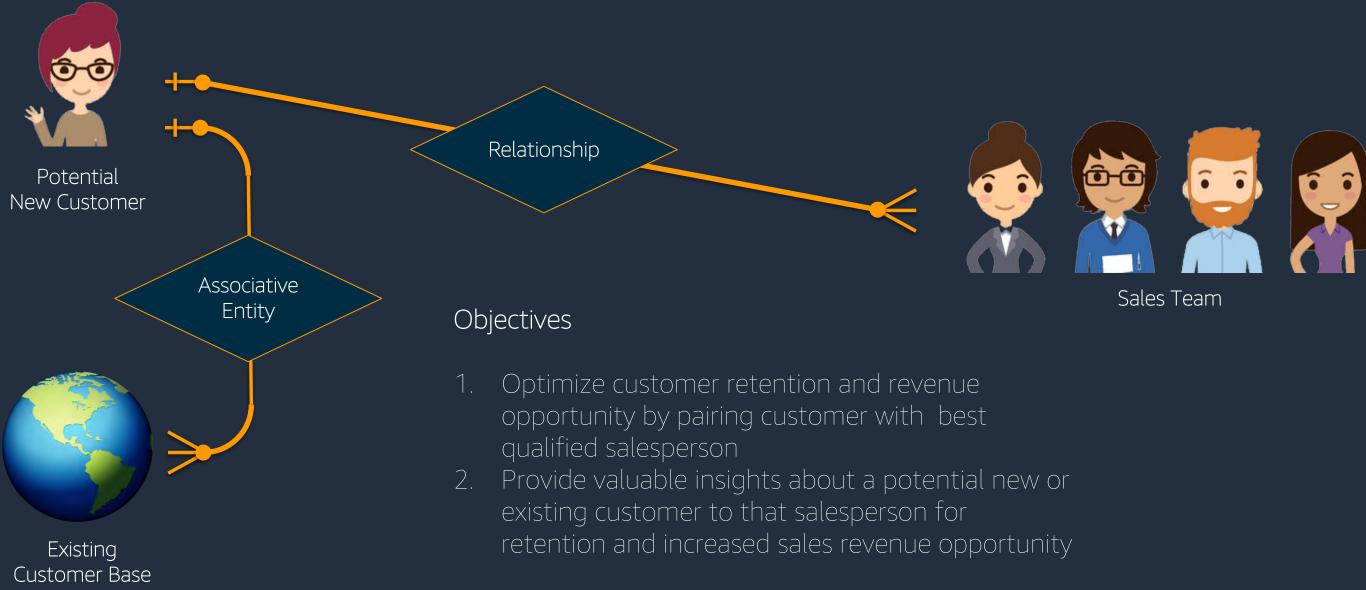
3. Product Area Expertise

### Knowledge of Individual Sales Agent

1. Sales Revenue Attainment



### Visualization of Demo





# Demo II



## Optimized Sales Demo



vailable 🗸 🔽 🗖	Al Powered Speech Analytics for Amazon Con	Search Agent:   What do you want to ask ?
Welcome Joan	Overall Customer Sentiment: Real-time Customer Transcript: Show Entities	Search
	Hide Contact Attributes Name	Value
Quick connects	No data available in table	



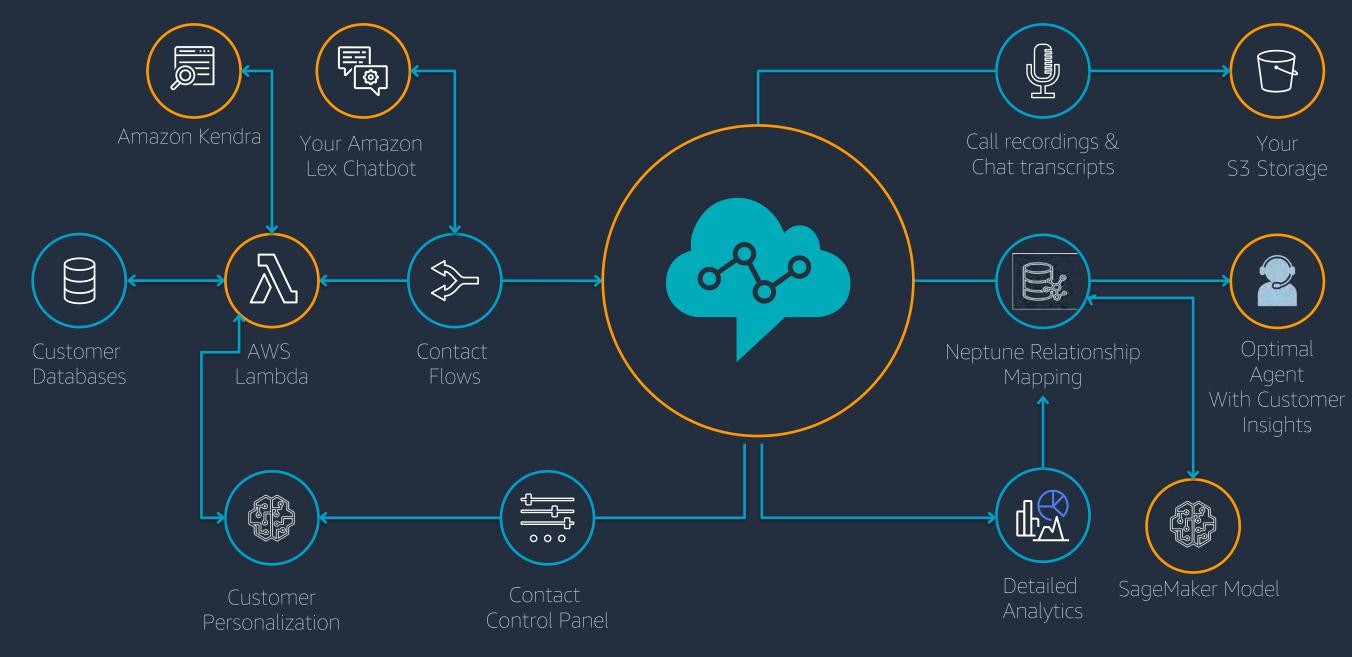
## Optimized Customer Retention Demo

Available V V K	Al Powered Speech Analytics for Ama Overall Customer Sentiment: Real-time Customer Transcript: Show Entities	zon Connect	Search Agent: What do you want to ask ? Search
Quick connects	Hide Contact Attributes Name No data available in table	Value	
iii Number pad			



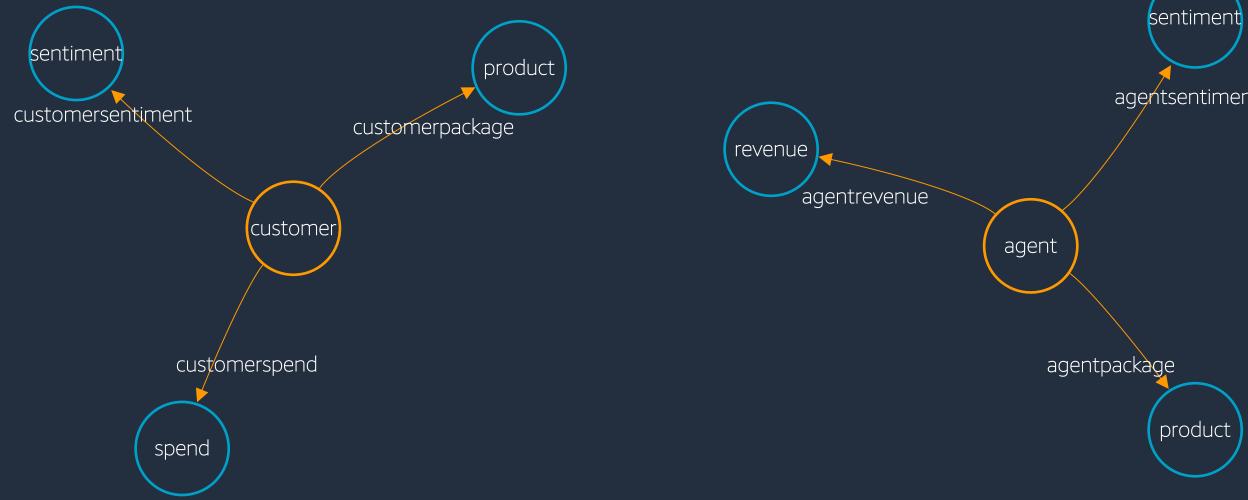


### Demo Architecture





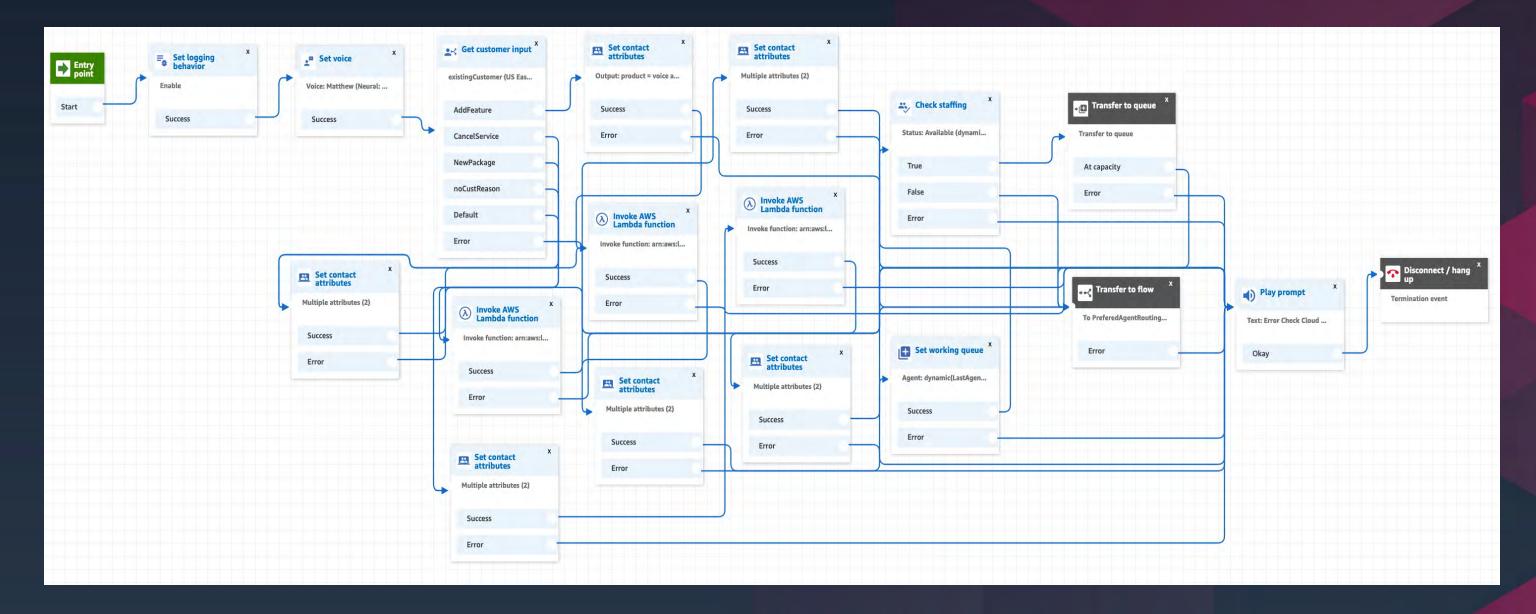
### Relationship Mapping







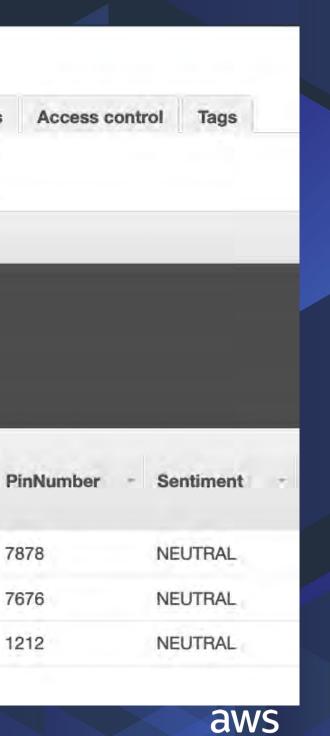
### Contact Flow Graphical User Interface





## Customer Data Table

COX	Comms_CRMDat	ta Close									
Ove	erview Items M	letrics Alarms	Capacity I	Indexes	Global Ta	bles Bac	kups	Contributor	Insights	Triggers	
Crea	ate item Actions	~									
Scan	[Table] COXComms_	CRMData: Custon	nerPhoneNu								
Sca	n 🔹 [Table] Co	OXComms_CRMDa	ta: CustomerPhor	neNumber				• ^			
	Add filter										
	Start search	n									
- "	CustomerPhoneNun	ContractStartDa	CustServCalls	DataPlar	i ~ 1	FirstName	+ II	phonePlan	LastCor	ntactCat	F
	4129659834	20200102	3	Yes	1	EJ	Y	es	WIFI		7
	7767323439	20200707	6	Yes		Asif	N	lo	Data		7
	9724672814	20200202	1	Yes	0	Anjali	Y	es	Phone		1
1											



## Machine Learning = Experience Evolution

	Churn?	IphonePlan	DataPlan	CustServCalls
0	0	1	1	2
1	0	0	1	1
2	0	1	1	0
3	0	1	1	3
4	0	0	1	4
204	0	1	1	2
205	0	0	1	3
206	0	1	1	4
207	1	1	1	6
208	1	0	1	9

