aws Contact Center Days

Build a resilient, scalable contact center on Amazon Connect

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Meet our Experts!



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Today's agenda

Amazon Connect overview

Amazon Connect highavailability architecture

Meet Octank Benefits

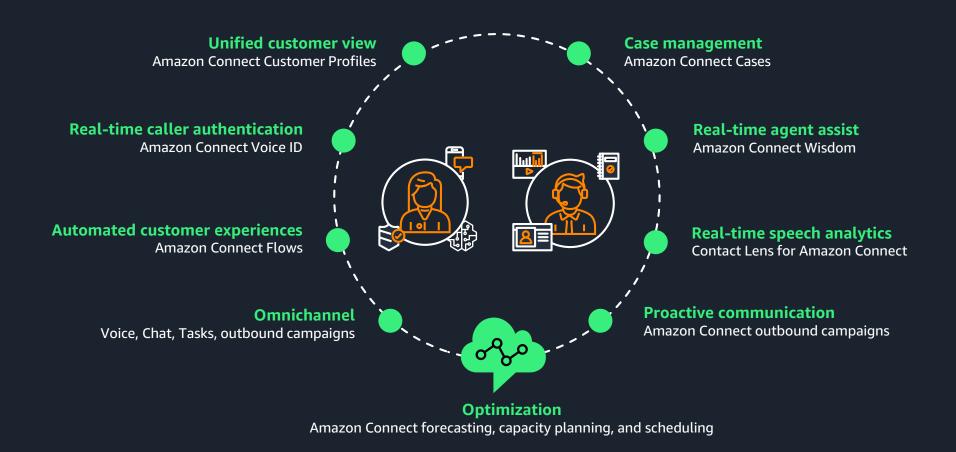
High-availability design considerations

Q&A



Amazon Connect innovations

OMNICHANNEL SELF-SERVICE, AGENT EMPOWERMENT, ANALYTICS, INSIGHTS, & OPTIMIZATION







Amazon Connect Integrations

Development



AWS Lambda



Amazon **API** Gateway



AWS Step Functions

Storage



Amazon S3



Amazon Glacier

Database







Amazon RDS

Amazon DynamoDB Amazon Redshift

A



Amazon Lex



Amazon Polly



Amazon



Amazon Transcribe Comprehend



Analytics



Athena

Amazon Amazon



Kinesis



Amazon Glue

Amazon QuickSight

Messaging







Amazon Pinpoint

Amazon Simple Amazon Simple Notification Service Email Service

Security



AWS Identity and Access Management



AWS Directory Service

Management







Amazon CloudWatch CloudFormation

AWS

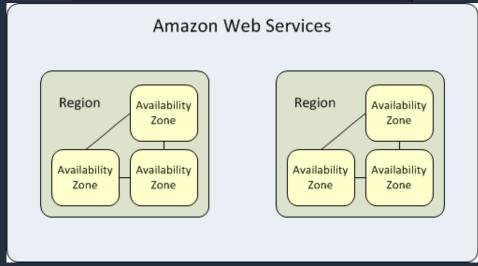
AWS CloudTrail



Amazon Connect Availability – Amazon Connect Architecture

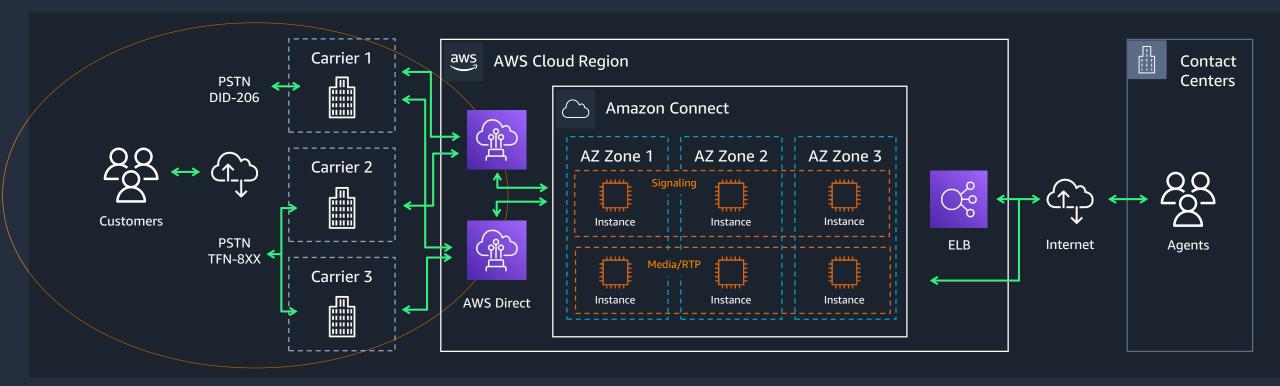
- Each AWS Region has multiple, isolated locations known as Availability Zones.
- AZs are connected with each other through low latency links
- Amazon Connect's architecture is highly available and runs across multiple Availability Zones in an AWS region to provide fault tolerance in the event of a server failure or Availability Zone outage.
- AWS datacenters are designed with significant excess bandwidth to ensure sufficient capacity





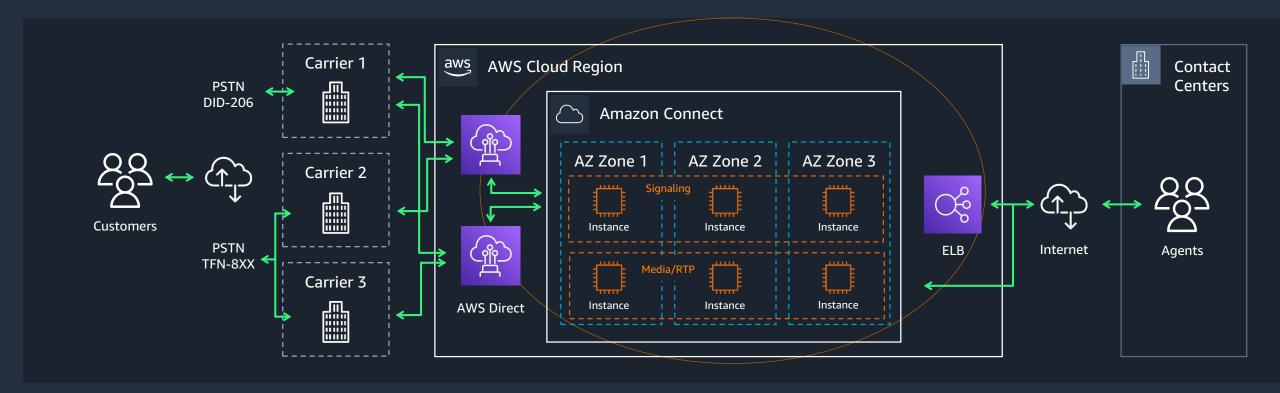


Amazon Connect - Telephony service



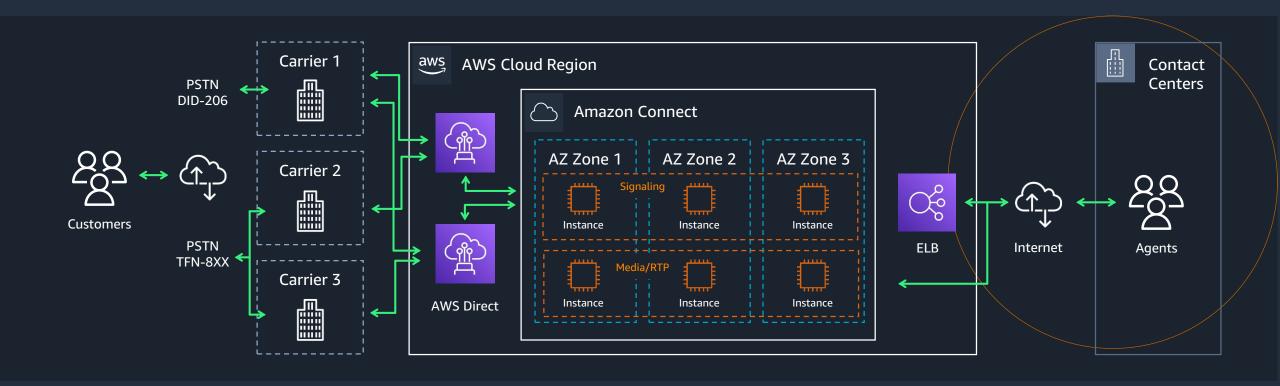


Amazon Connect - Media and signaling applications





Amazon Connect - Service for the agents







Amazon Connect design considerations for resiliency

Contact Flows



Use a Modular Approach Make them Dynamic Enable logging Callbacks enabled

Routing



- Offer Self-service
- Queue overflows
- Routing flags



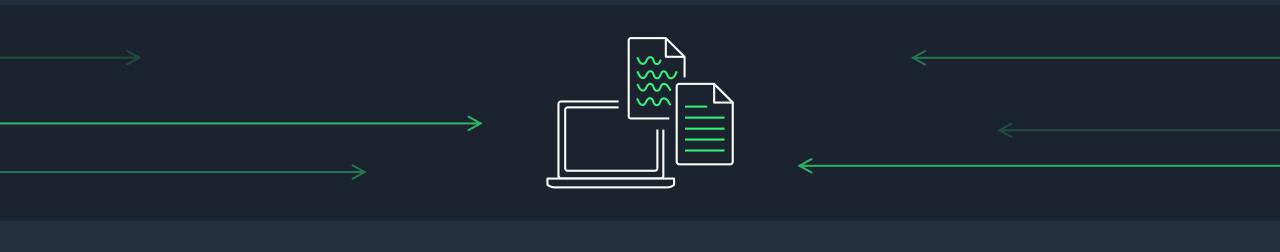
Change management

Make use of Aliases for AWS Lambda and Amazon Lex. You can then quickly flip a contact flow to point at the appropriate Alias and not risk a change in your functions or bots having broad impact

Test and validate changes in a pre-production environment

Some customers use a separate Amazon Connect instance in their account and rely on contact flow import/export to promote to their production instance

Others build in the same instance but operate in a mode where changes are made to a non-production flow and once happy with the result, a master flow begins transferring volume to new flow. (This can be dialed up slowly by percentage of calls.)



Clearly document the failover process and the steps to follow along with dependencies and pre-requisites as well as owners identified. Have a centralized place (e.g., SharePoint etc.) to house the process artifacts



Standardize agent desktops

CONSIDER APPSTREAM TO ONBOARD REMOTE AGENTS QUICKLY



Remove any monitoring/diagnostic software from workstations that could interfere with WebRTC traffic

Have agents run Connect on supported browsers

Provide agents with wired USB headsets for use with Connect

Configure agent workstations with wired ethernet connections for internet connectivity

Antivirus software can monitor packets, protocols, and websites—and block these. Please review our networking guide ensure that the antivirus software is not blocking any domains, IP addresses, Ports or protocols

VPN software can restrict traffic on ports required by Connect to run.

Review the networking guide and ensure no ports/URLs and IP Ranges are blocked locally



Meet Octank Benefits



Meet Octank Benefits

Mission	Vision	Values
Provide best in class benefits through innovative health care policies and strategies.	Demonstrate leadership across the nation providing high value care and service.	Provide benefits such as FSA, Retirement, Life, and Dependent Care.
	Transform and innovate in the health care benefits.	Strong ethics, fiscal responsibility and team work.
	Expand regional presence with high value services.	Leverage technology to simplify customer experience.

Technology

- Contact center capacity scales automatically during the peak enrollment periods.
- Providing the best customer experience with Amazon Connect without increasing Agent count.
- Continuous improvement with technology innovation.
- Services exercised quarterly for business continuity with strict RTO and RPO goals.



Architecture Principles in Octank's Amazon Connect Implementation At a glance

Operation Excellence

Region selection.

Carrier diversity.

Network and desktop hardware.

Playbooks for operational events.

Centralized collection of metrics for monitoring.

Review and adjust service quotas regularly.

Security

Strong identify solution with Single Sign-On (SSO).

Protection of data in transit and rest.

IAM roles, permissions, policies restricting access to data and services

Reliability

As resiliency is handled as part of the service, there are no reliability practices unique to Amazon Connect beyond of what is covered in Operational Excellence



Architecture Principles in Octank's Amazon Connect Implementation

Cost Optimization

Region selection

Callbacks

Storage

Self-service

Redirect voice contacts to chat

Performance Efficiency

Architectural design

Contact flow design

Agent enablement

Integration with other AWS Services

Testing

Sustainability

Adopt development and testing methods

Minimize data movement across networks

Implement a data classification policy

Optimize impact on customer devices



Demo Showcase

Lets walk through a couple of scenarios with our customer

Octank Benefits and the customer experience contacting the service center





Demo

Meet Octank's Customer

- John Doe
 - Recently enrolled in FSA and Retirement benefits
 - Regularly calls to check on balance or with benefits questions
 - Most of the calls are self-served, sometimes the call is routed to a benefits advisor





Scenario - A

- John Doe calls in Octank Customer Service
 - Checks FSA balance
 - Also needs clarification on a recent claim Dependent care (Daycare)



What did we see? - Scenario - A

- John Doe was able to
 - Check the balance on his FSA account
 - Receive an update from Octank on a recent claim
 - And was given an option to speak to a benefits advisor



Octank's Resiliency Testing and Business Continuity

- Octank adheres to strict standards to provide best in class customer service.
 - Standards include data security, user experience, and resiliency
 - For resiliency a Business Continuity Plan (BCP) is validated quarterly



Scenario - B

- John Doe calls back Octank
 - This time he is greeted with different options to get support
 - Chat | Octank Website FAQ



What did we see? Scenario - B

- Octank had initiated a BCP validation
- John was able to get support during the validation and provided alternate options
- Octank continued to maintain the high standards for service



Call to Action

- What did we learn from the session?
 - ✓ Key Design Considerations for Amazon Connect
 - ✓ Well Architected Pillar considerations for Amazon Connect
 - ✓ A Demo walk through of a customer experience
- Have more questions on how to implement Amazon Connect
 - Follow this link to contact us.





Thank you!

Questions?