nic

Future Edition
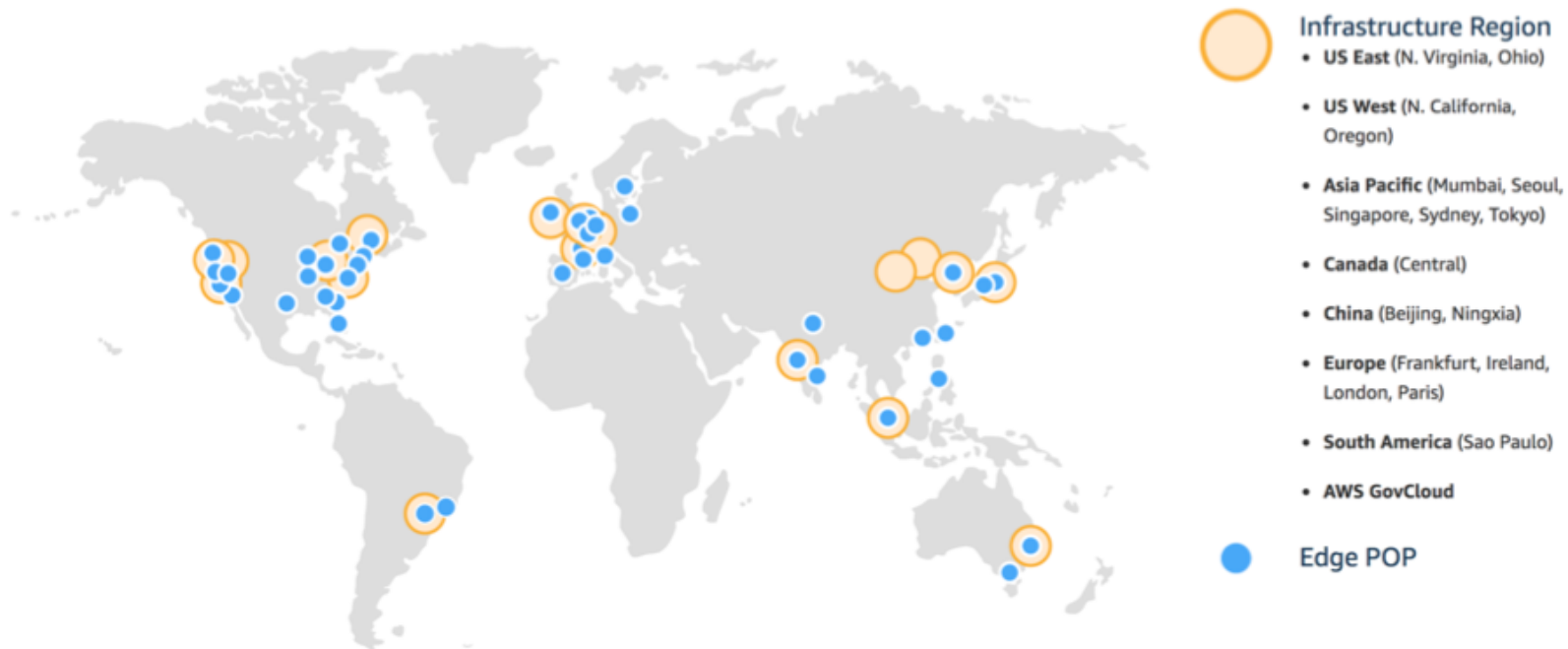
- 2006

- AWS invented Cloud market
- Started with EC2 and S3
- by 2009 it was mostly used by startups
- As IaaS starter

Netflix, Airbnb, BMW, Spotify, British Gas, Dow Jones, Kellog's

Global Network of Regions and Edge Locations

Infrastructure Region
- **US East** (N. Virginia, Ohio)
- **US West** (N. California, Oregon)
- **Asia Pacific** (Mumbai, Seoul, Singapore, Sydney, Tokyo)
- **Canada** (Central)
- **China** (Beijing, Ningxia)
- **Europe** (Frankfurt, Ireland, London, Paris)
- **South America** (Sao Paulo)
- **AWS GovCloud**

Edge POP

nic

- Amazon's biggest strength is its dominance of the public cloud market

- Amazon's infrastructure is enormous

- AWS has a huge and growing array of available services

- 2010

- Started as PaaS
- Choice for Corporates
- Hybrid connection
- MS products

Pixar, Maersk, Hershey, Boeing

nic

42 Azure regions, more than any cloud provider

West US 2
West US
US Gov Arizona
West Central US

US Gov Iowa
Central US
Canada East
Canada Central
North Central US
US DoD East
East US
East US 2
US Gov Virginia
US DoD Central
South Central US
US Gov Texas

North Europe
UK West
UK South
West Europe
Germany Northeast
Germany Central
France South
France Central

China North
Japan East
Japan West
Korea Central
Korea South
China East
East Asia
Southeast Asia

West India
Central India
South India

Currently available

Coming soon

Brazil South

South Africa North
South Africa West

Australia East
Australia Central
Australia Central 2
Australia Southeast

nic

- Microsoft is frequently chosen as a strategic cloud provider by customers that are committed to Microsoft technologies

- support for hybrid cloud environments, including its Azure Stack software

- embrace of Linux and other open source technologies has also helped attract some enterprises

nic

GANT, Lush, HSBS, M&S

- 2008

- Started with Google App Engine
- Different approach comparing with AWS and Azure

nic

- GCP is most attractive to cloud-native companies and those that want to 'run like Google.'

- It has a strong offering in containers, since Google developed the Kubernetes standard that AWS and Azure now offer

- GCP specializes in high compute offerings like Big Data, analytics and machine learning

nic

Compute

EC2
EC2 Auto Scaling
Elastic Container Service
EKS
Elastic Container Registry
Lightsail
Batch
Elastic Beanstalk
Fargate
Lambda
Serverless Application
Repository
VMware Cloud

Virtual Machines
Virtual Machine Scale Sets
App Service
Functions
Azure Container Service
Container Instances
Container Registry
Service Fabric
App Service
Batch

Compute Engines
Kubernetes
App Engine
Cloud Functions

nic

S3
EBS
Elastic File System
Glacier
Storage Gateway
Snowball
Snowball Edge
Snowmobile

Storage
Blob Storage
Archive Storage
Queue Storage
File Storage
Disk Storage
Data Lake Storage
StorSimple
Backup
Site Recovery

Cloud Storage
Persistent Disk
Google Transfer Appliance
Cloud Storage Transfer
Service
BigQuery Data Transfer
Service

nic

Database

amazon web services™

Aurora
RDS
DynamoDB
ElastiCache
Redshift
Neptune
DB Migration Service

Azure

SQL Database
Database for MySQL
Database for PostgreSQL
SQL Data Warehouse
SQL Server Stretch
Database
Cosmos DB
Redis Cache
Azure Database Migration
Service

Google Cloud

Cloud SQL
Cloud BigTable
Cloud Spanner
Cloud Datastore

nic

Networking

amazon web services™

Amazon VPC
Amazon CloudFront
Amazon Route 53
Amazon API Gateway
Elastic Load Balancing
AWS Direct Connect

Virtual Network
Content Delivery Network
Azure DNS
Application Gateway
VPN Gateway
Load Balancer
Traffic Manager
ExpressRoute
Network Watcher

VPC
Cloud Load Balancing
Cloud CDN
Cloud DNS
Cloud Interconnect
Network Service Tiers

nic

IAM	AAD	Cloud IAM
Organizations	AAD Identity Protection	Cloud Identity Aware Proxy
SSO	AAD B2C	Cloud Data Loss Prevention API
Cloud Directory	AAD Domain Services	Security Key Enforcement
Directory Service	Application Proxy	Cloud Key Management Service
Cognito	Security Center	Cloud Security Scanner
GuardDuty	Key Vault	
Inspector	Azure DDoS Protection	
Macie		
Certificate Manager		
CloudHSM		
Key Management Service		
Shield		
WAF		

CloudWatch
CloudTrail
Config
OpsWorks
Personal Health Dashboard
System Manager
Trusted Advisor

Azure Advisor
Application Insights
Log Analytics
Azure Monitor
Network Watcher

Google Stackdriver
Monitoring
Logging
Error reporting
Trace
Debugger
Cloud Management

nic

ML & AI

amazon web services

SageMaker
Comprehend
Lex
Polly
Rekognition
Machine Learning
Translate
Transcribe
DeepLens
Deep Learning AMIs
Apache MXNet
TensorFlow

Azure

Machine Learning Services
Machine Learning Studio
Azure Bot Service
Cognitive Service
Computer Vision API
Face API
Content Moderator
Emotion API
Video Indexer
Various Speeches API
LUIS
Text Analytics API
Translator Text API
Recommendations API
Bing APIs
Microsoft Genomics

Google Cloud

Cloud AutoML
Cloud ML Engine
DialogFlow Enterprise
Cloud Natural Language
Cloud Speech API
Cloud Translation API
Cloud Vision API
Cloud Video Intellegence

nic

Dev Tools

Amazon Web Services

Console
CLI
CloudFormation
API

CodeStar
CodeDeploy
X-Ray
CodeCommit
CodePipeline
CodeBuild
Cloud9

Azure

Azure portal
Cli
Cloud Shell
Azure Resource Manager
API

VSTS
Visual Studio App Center
Azure DevTest Labs
App Insights

Google Cloud

Cloud Console
Cloud Shell
API

Container Registry
Container Builder
Cloud Source Repositories
Cloud Tools for IntelliJ
Cloud Test Lab

nic

MQ/SQS
WorkSpaces
AppStream 2.0

IoT Core
FreeRTOS
Greengrass
IoT Device Management

GameLift
Lumberyard

Logic Apps
Noitification Hubs
Event Hubs

IoT Hub
IoT Edge

BigQuery
Cloud Dataflow
DataProc
Datalab
Dataprep
Genomics

Cloud IoT Core

nic

Cloud pricing

- Prices go down
- Discounting options increase
- Per second billing

Resources

Slides and demos from the conference will be available at
github.com/nordicinfrastructureconference/2018 (bit.ly/2y7JhA3)