

How to kick-start your AWS Cloud Journey

The why, what and how to get started in AWS



Nora Schöner



@wolkencode @superluminario



What's in it for you today?

- **→** What is the cloud and why it is useful?
 - Getting to know AWS and its services
 - → Taking a look in mindset shifts
 - How to begin and getting started 6

we are

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Hi, I'm Nora 👋











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How it started?









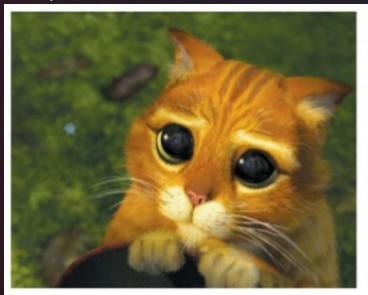
What does classical hosting look(ed) like?



CC-by-sa 3.0/de Ralf List CC-by-sa 4.0 Cskiran Uni Hamburg

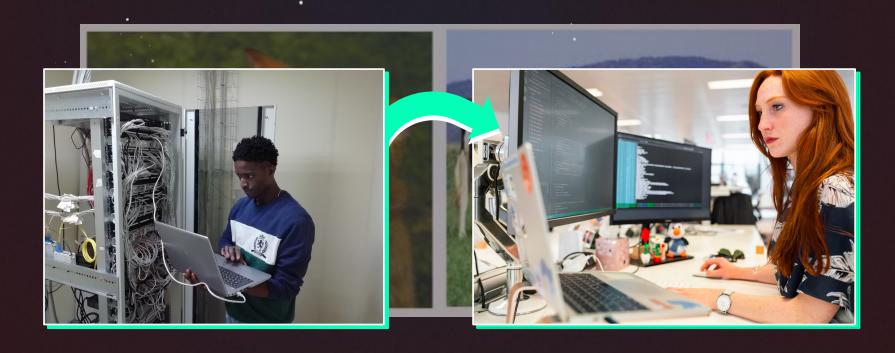
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Shift of Attitude

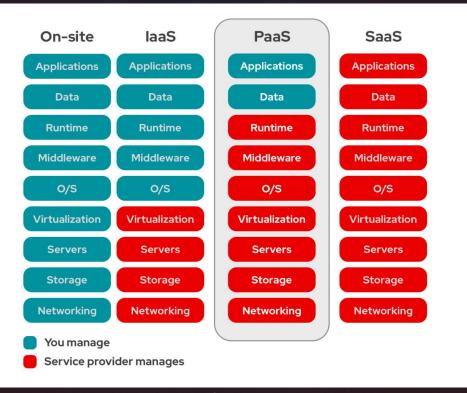




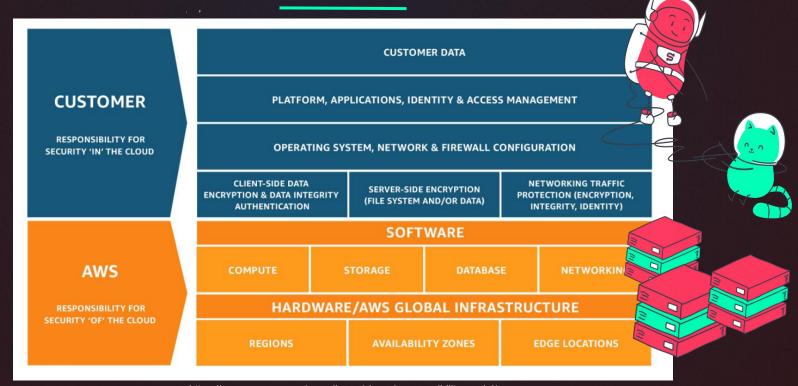
Shift of Attitude



Hello {*}aaS 👏

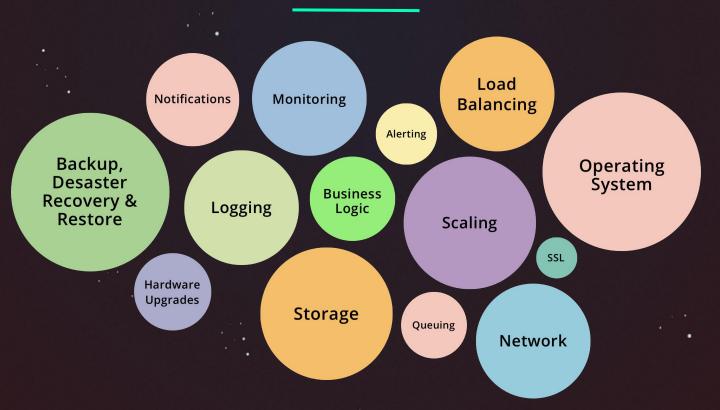


AWS Shared Responsibility Model

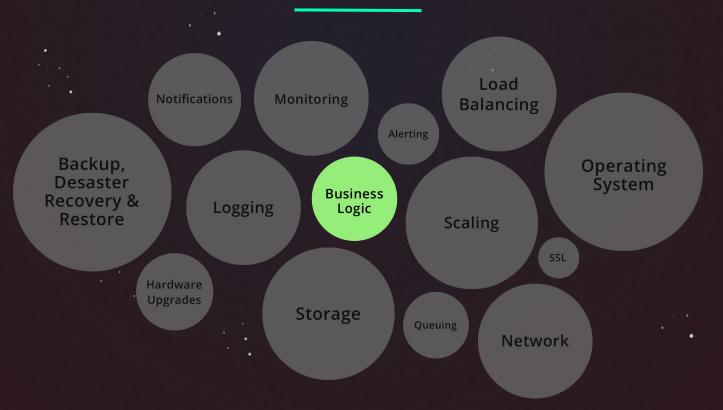


https://aws.amazon.com/compliance/shared-responsibility-model/

Things to take care of...



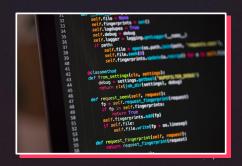
Where is the value?

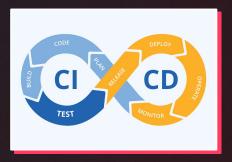


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Shift of development







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Shift of costs

fix costs pay on-demod

build buy

TOTAL COST OF OWNERSHIP

TCO ICEBERG MODEL

TRADITIONAL COST FOCUS

PURCHASE PRICE
SUPPLIER COSTS
PRODUCT DEVELOPMENT COSTS

ALL-IN-COST FOCUS TCO

REPAIR/REWORK
MAINTENANCE
LEGAL
HIGH INVENTORY
ADMINISTRATION

PERFORMANCE PROBLEMS
EQUIPMENT SERVICE CALLS
DISPOSAL
TRAINING

LOGISTICS
DISPOSAL
SUPPLY DISRUPTION

Shift of Thinking

Vendor Lock-in

fear of dependencies



Public Cloud as driver

Shift of Thinking

Self Hosting/Building

fulfill my specific needs



Is there a service for it?

Shift of Thinking

Ownership of Assets

strategic advantage



necessary evil

So, Cloud has something for everybody



AWS Services

Compute

Amazon EC2

Amazon Elastic Container Service

Amazon Elastic Container Service for
Kubernetes

Amazon Elastic Container Registry Amazon Lightsail

AWS Batch

AWS Elastic Beanstalk

AWS Fargate

VMware Cloud on AWS

AWS Lambda AWS Serverless Application Repository

Auto Scaling Elastic Load Balancing

Storage

Amazon Simple Storage Service (53)
Amazon Elastic Block Storage (EBS)
Amazon Elastic File System (EFS)
Amazon Glacier
AWS Storage Gateway
AWS Snowball
AWS Snowball
AWS Snowball Edge
AWS Snowmobile

Database

Amazon Aurora
Amazon RDS
Amazon DynamoDB
Amazon ElastiCache
Amazon Redshift
Amazon Neptune
AWS Database Migration Service

Migration

AWS Migration Hub

AWS Application Discovery Service

AWS Database Migration Service

AWS Server Migration Service

Networking & Content Delivery

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

Developer Tools

AWS CodeStar
AWS CodeCommit
AWS CodeBuild
AWS CodeDeploy
AWS CodePipeline
AWS Cloud9
AWS X-Ray
AWS Tools & SDKs

Management Tools Amazon CloudWatch

AWS CloudFormation
AWS GloudTrail
AWS Config
AWS OppWorks
AWS Service Catalog
AWS Systems Manager
AWS Trusted Advisor
AWS Personal Health Dashboard
AWS Command Line Interface
AWS Management Console
AWS Managed Services

Media Services

Amazon Elastic Transcoder Amazon Kinesis Video Streams AWS Elemental MediaConvert AWS Elemental MediaLive AWS Elemental MediaPackage AWS Elemental MediaStore

Machine Learning

Amazon SageMaker
Amazon Comprehend
Amazon Lex
Amazon Polly
Amazon Rekognition

Amazon Rekognition

Amazon Machine Learning

Amazon Translate

Amazon Transcribe
AWS DeepLens
AWS Deep Learning AMIs
Apache MXNet on AWS
TensorFlow on AWS

Analytics Amazon Athena Amazon EMR

Amazon CloudSearch
Amazon Elasticsearch Service
Amazon Kinesis
Amazon Redshift
Amazon QuickSight
AWS Data Pipeline
AWS Glue

Security, Identity & Compliance

AWS Identity and Access Management (IAM)
Amazon Cloud Directory
Amazon Gognito
Amazon GuardDuty
Amazon Inspector
Amazon Inspector
Amazon Macie

AWS CloudHSM

AWS Directory Service

AWS Key Management Service

AWS Organizations

AWS Single Sign-On

AWS Shield

AWS Certificate Manager

AR & VR

Amazon Sumerian

Application Integration

Amazon MQ
Amazon Simple Queue Service (SQS)
Amazon Simple Notification Service (SNS)
AWS AppSync
AWS Step Functions

Customer Engagement

Amazon Connect
Amazon Pinpoint
Amazon Simple Email Service (SES)

Business Productivity

Alexa for Business Amazon Chime Amazon WorkDocs Amazon WorkMail

Desktop & App Streaming

Amazon WorkSpaces Amazon AppStream 2.0

Internet of Things

AWS IoT Core
Amazon FreeRTOS
AWS Greengrass
AWS IoT 1-Click
AWS IoT Analytics
AWS IoT Button
AWS IoT Device Defender
AWS IoT Device Management

Game Development

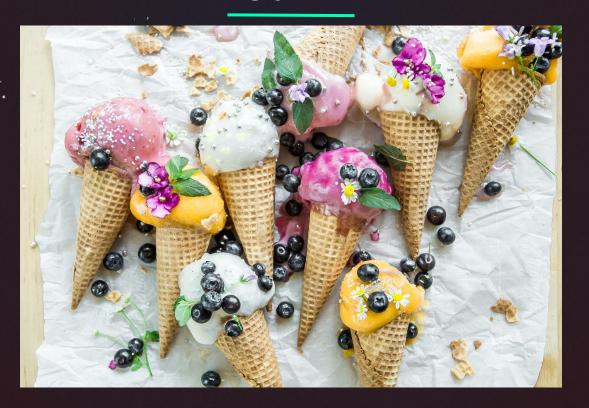
Amazon GameLift Amazon Lumberyard

Software

This is a lot...



Work with something you are motivated about



Get to know the bare basics

















Some funny ones...

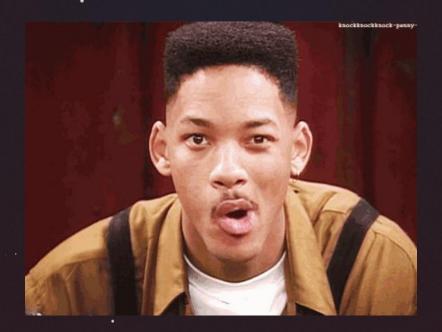








Let's take a closer look



Tooling is everything!











Search for a learning path

roadmap.sh





An example







Amazon Cognito



GraphQL AppSync







Route53



Cloud Front



S3



API La Gateway



Lambda DynamoDB



Another example















Tools and little Helpers

using a Infrastructure as Code tool







- using ramp up tools (e.g. Amplify, Copilot,...)
- learn about Well Architected Framework
- attending meetups and conferences <a>



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Thank you.



Nora Schöner



@wolkencode



@wolkencode

nora.schoener@superluminar.io



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