



1



2

“

“Every company is a software company. You have to start thinking and operating like a digital company. It’s no longer just about procuring one solution and deploying one. It’s not about one simple software solution. It’s really you yourself thinking of your own future as a digital company.”

SATYA NADELLA
CEO
Microsoft

Bron : aks.ms/practiceplaybooks cloud migration and modernization



3

DEFINIEER PUBLIC CLOUD:

- “computingservices die door externe providers worden aangeboden via het openbare internet, zodat ze beschikbaar zijn voor iedereen die ze wil gebruiken of kopen” **(Microsoft)**
- “een soort cloud computing waarbij de cloud service provider gedeelde resources via het internet aan het publiek beschikbaar stelt” **(Citrix)**
- “een computerstijl waarbij schaalbare en elastische IT-mogelijkheden als service worden aangeboden aan externe klanten die internettechnologieën gebruiken. **(Gartner)**



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GANGBARE MOTIVATIES



KOSTEN

- CapEx – OpEx
- Transparantie
- Besparingen



WENDBAARHEID

- Moderne Applicaties
- Direct beschikbaar
- DevOps - CI/CD
- Time to Market



KWALITEIT

- Prestatieniveau
- Schaalbaarheid
- Betrouwbaarheid
- Veilig & verantwoord



INNOVATIES

- Koppelen met IoT
- Data Science
- Eigen oplossingen



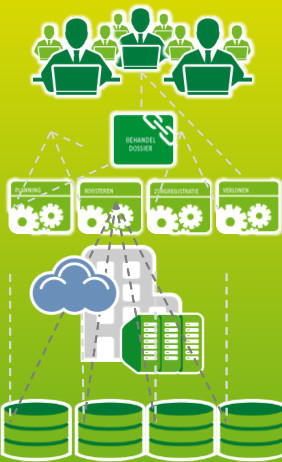
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SAAS & SOA

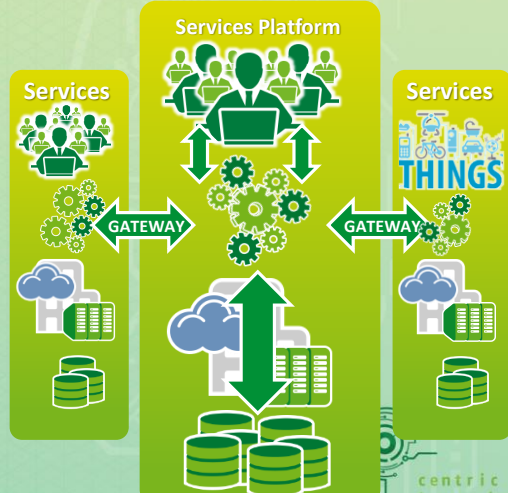
Monolithic



Application Suite



Services Platform

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38 Questions to Ask When Evaluating Your Cloud Strategy

Scan Strategic Direction

- 1 What motivated us to design a Cloud strategy?
- 2 What were perceived benefits?
- 3 What business outcome did we want to impact?
- 4 Are our original motives, benefits and expected outcomes valid in today's marketplace?

Take Stock

- 5 What is the level of senior management buy-in rolling out Cloud strategy?
- 6 Are we users or providers of Cloud based products and services?
- 7 Which business-critical functions are most ready for the Cloud?
- 8 Have we identified pilot projects, low hanging fruit and early wins?
- 9 Do we have an enterprise-wide consolidated list of applications and their intended use?

Understand Constraints

- 10 What is the existing split of data between on-premise storage & Cloud storage?
- 11 Do we have a good grasp on our business' regulatory and compliance obligations?
- 12 What is the nature of information we store? Confidential? Public Records? Sensitive?
- 13 Who owns data sitting on our servers?
- 14 What customer expectations are set regarding information security?
- 15 Have our DRBCP policy geared to take advantage of Cloud technology?
- 16 Is there discussed and cleared our plan with legal?

Assess Execution Risk

- 17 Do we have business context from financial and human resources approved?
- 18 Is the architecture of our existing applications ready for Cloud computing?
- 19 What are our contractual obligations with existing software and hardware vendors?
- 20 Do we fully understand time and resources required for change management?

The Money Matters!

- 21 What is our financial objective?
- 22 What is the cost optimization promise of Cloud strategy?
- 23 Are we expecting additional revenue by using Cloud technology?
- 24 What is the cost of workforce restructuring?
- 25 How are we financing this initiative?
- 26 What are the implications and perceptions of this strategy on investors and shareholders?

Mobilize Human Capital

- 27 Which existing roles will become obsolete?
- 28 What options are available to meet skills requirements?
- 29 How soon can we acquire skills to realize stated business objectives in a timely manner?
- 30 How will the world workforce perceive us as an employer?

Operationalize

- 31 What did we learn from pilot projects and early wins?
- 32 Do we understand the efforts required to transform existing applications to take advantage of Cloud technology?
- 33 What additional benefits will be available to business users by replacing existing applications with Cloud/infused based SaaS?
- 34 Do we understand the efforts required to transform existing applications to take advantage of Cloud technology?

Measure

- 35 What is our measure of progress?
- 36 What is our measure of success?
- 37 Have we identified KPIs?
- 38 If KPIs are out of bound, what actions will we take?

Scan Strategic Direction

Evolution to move to the cloud.

Review your readiness.

Get a good handle on your constraints.

Identify all the risks.

Understand your financial objectives.

Succeed by including everyone.

Refine your plans.

Harness data to discover real progress.

Measure

Operationalize

Mobilize Human Capital

The Money Matters!

Assess Execution Risk

Understand Constraints

Take Stock

Scan Strategic Direction

38 Questions to Ask When Evaluating Your Cloud Strategy

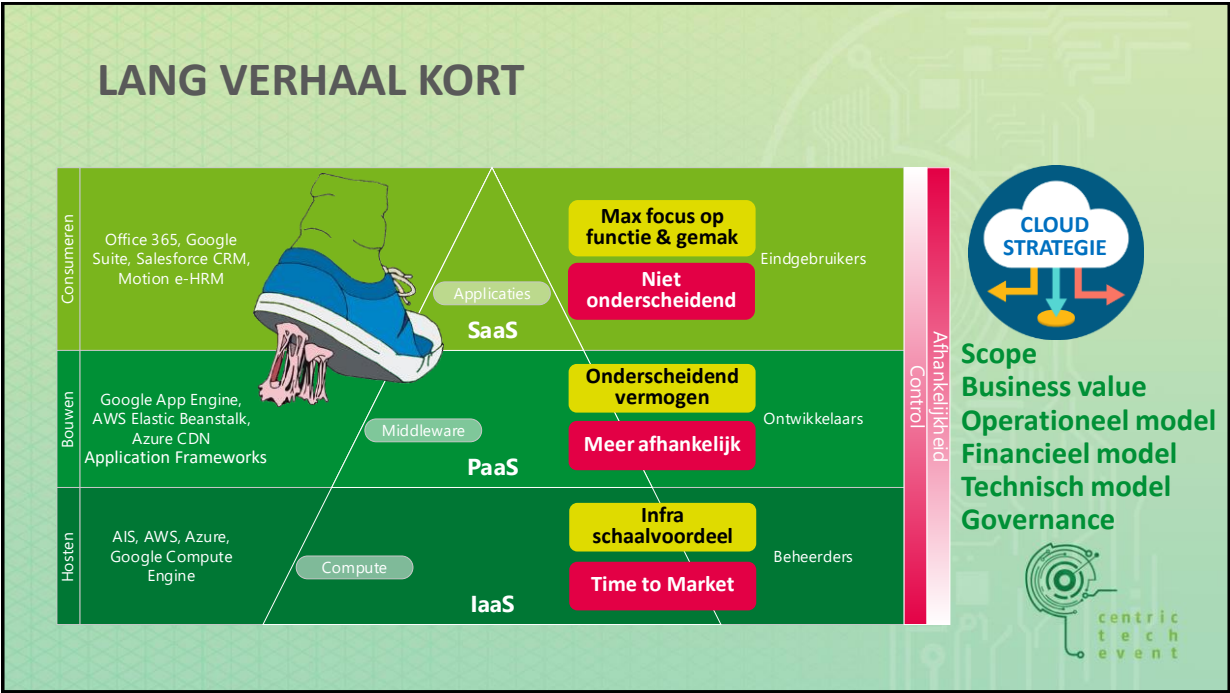
Bron: cipherspace.com

Bron:
cipherspace.com

- Functionaliteit
- Continuïteit
- Kosten
- Beveiliging
- Interoperabiliteit
- Snelheid
- Ondersteuning
- Onderhoud
- Wetgeving
- Governance



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DATAMIGRATIE & “STICKINESS”

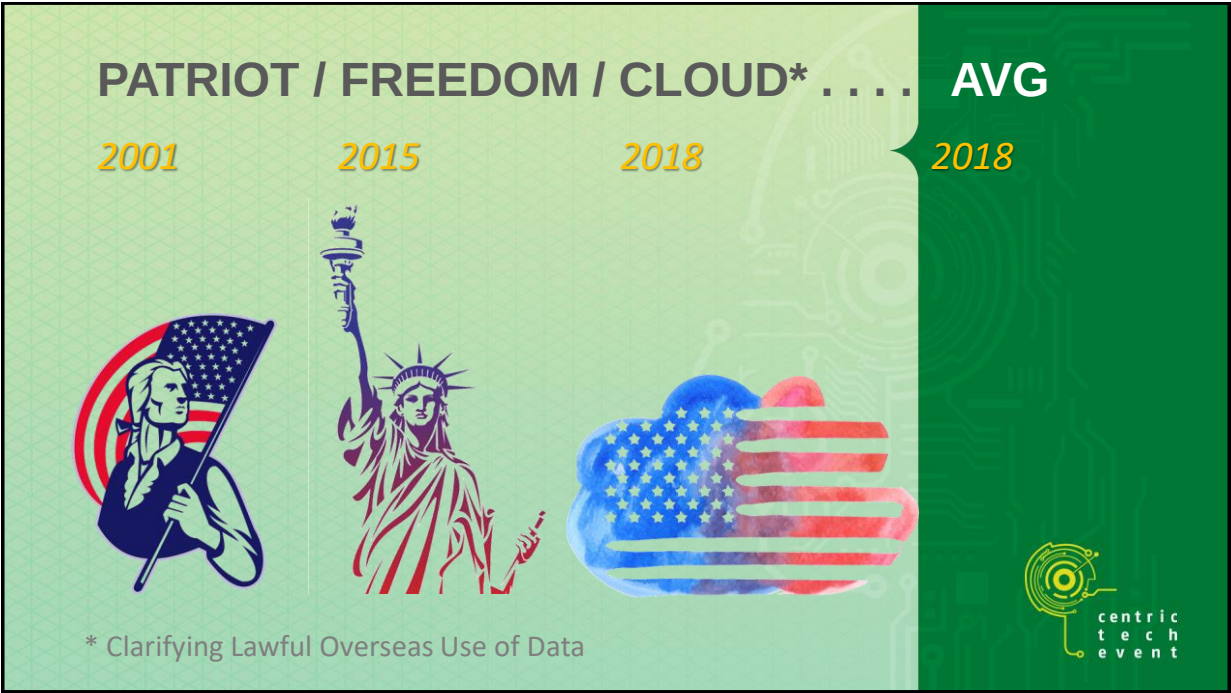
256-Bit Encrypted
350kWatt ACpower
100 PB/Truck storage
25 40Gbps connections
2x 10 days, not 20 years*

Regional Table	Ireland	Frankfurt	London	Paris	Stockholm
AWS Snowball	✓	✓	✓	✓	✓
AWS Snowball Edge	✓	✓	✓	✓	✓
AWS Snowmobile	✓	✓	✓	✓	✓

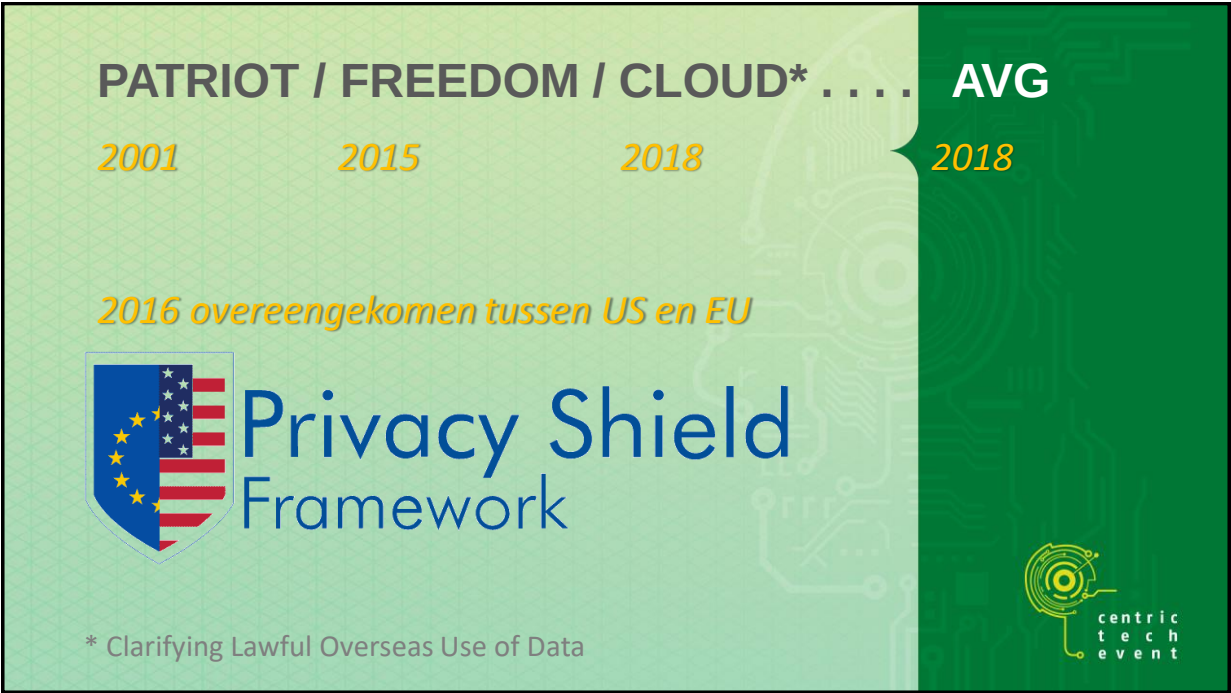
* Using a 100Mbps internet connection

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DATA TRANSFER VERZOEKEN AMERIKAANSE OVERHEID

- Grotendeels hotmail en live.com accounts
- Wereldwijd zakelijke account verzoeken, gehonoreerd bij Microsoft: enkele tientallen.
- Klant vooraf geïnformeerd indien toegestaan.
- Microsoft was eerste Privacy Shield compliant Global Cloud Service Provider (*September 2016*).



Juni 2019 Aanvullende AVG afspraken

Verbeterde auditrechten op de Baseline Informatiebeveiliging Rijksdienst (BIR).



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HET JUISTE MOMENT?

SaaS

- Applicatie rationalisatie / vervanging (soms ook n.a.v. organisatieveranderingen, fusies etc)

PaaS

- Business Innovatie langs Digitale Transformatie

IaaS

- HW vervanging of Data Center contract hernieuwing
- Cyber Security & Compliance investeringen (ook PaaS)



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VOELBARE MIGRATIE IMPACT

SaaS

- Business Proces / werkwijzen aanpassen
- Impact IT-Organisatie & Governance model

PaaS

- Development werkwijzen & API Management

IaaS

- Applicaties aanpassen voor nieuwe cloudomgeving
- Infra-beheer (indien nog niet ge-outsourced)



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DE CLOUD MIGRATIE



Assessment

- Doel/Scope
- Workloads
- Security eisen
- Governance
- Begroting



Proof of Concept

- Scenario's
- Data conversie
- Functionaliteit
- Security
- Beheersbaarheid
- Integreerbaarheid



Pilot

- Praktijksituaties
- Gebruikerservaring
- Draagvlak
- Performance toets
- Schaalbaarheid
- Beheer-organisatie
- Kostentoetsing

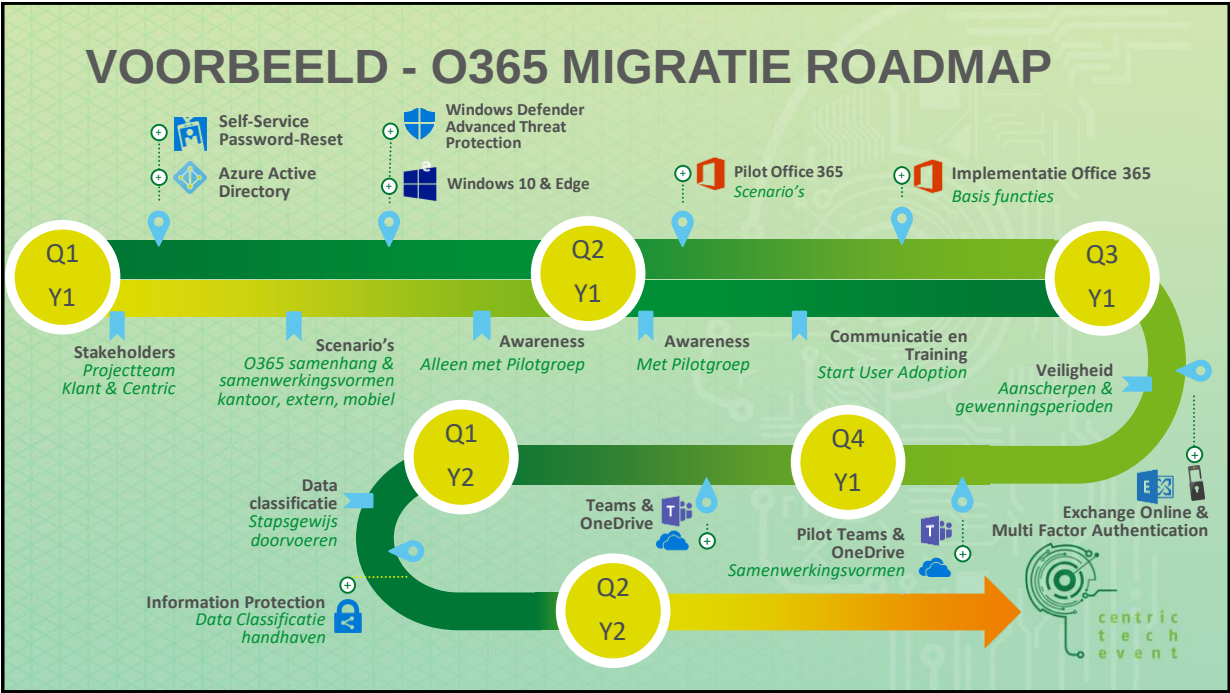


Productie

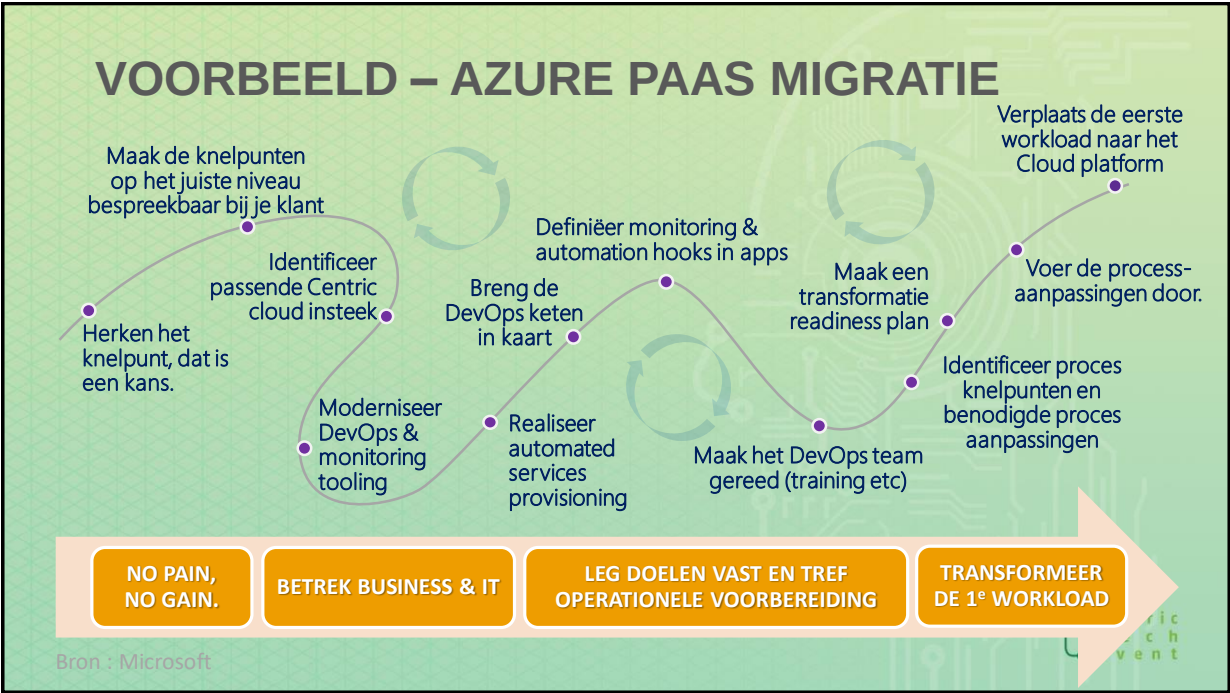
- Stapsgewijs opschalen
- Data overdracht
- Gebruikers begeleiding
- Organisatie aanpassing
- Governance operatie
- Customer Journey



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CULTUUR MIGRATIE

	TRADITIONELE IT ROL	CLOUD IT ROL
PRIMAIRE ROL	IT leverancier voor de Business	Broker / integrator Cloud competence centre
DIENSTVERLENING	Project gebaseerd	Agile / continue integratie
IT BEHEER INRICHTING	Verdeeld in IT silo's	End-to-end services
BEHEER PROCESSEN	Gedocumenteerd & handmatig doorgevoerd	Systematisch, met scripts doorgevoerd
MONITORING	Component focus, gericht op storingen.	End-to-end service focus, optimalisatie gericht.
SUPPORT	Service desk / storingsgericht	Self service / Klantsucces gericht
APPLICATIE LIFECYCLE	Behoudend, N-1 of ouder	Vernieuwend, N of N+1 API gericht
CONFIGURATION / ASSET MANAGEMENT	Organiserend & beschikbaar stellend	Adviserend, verklarend, toezicht houdend



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DE CENTRIC INBRENG

Doorslaggevende Centric begeleiding door:

Sterk Leiderschap (Bergen verplaatsen)	Haalbare Doelen (S.M.A.R.T.)	Stapsgewijze Realisatie (Successen behalen)	Degelijke Architectuur (Richting gevend)
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Waardevolle persoonlijke stijlen:

Verbindend (Business & IT kennis, met alle creativiteit)	Overtuigend (Kennis van stakeholders, communicatief)	Mobiliserend (IT Development kennis, daadkracht)
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Think big,
start simple



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CLOUDMIGRATIE VANUIT BUSINESSOPTIEK DOOR FRANK DE NIJS



Geef jouw feedback!

Gebruik je mobiel

– Ga naar bit.ly/ct19cloudbus
Of start dit op met de QR code;



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DANK VOOR
JE AANDACHT!



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