



«FileMaker Cloud Event»

Referent: Michael Jupe

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 **FileMaker**

Medio-Ingeno AG

- Seit über 25 Jahren: Datenbank-Entwicklung mit FileMaker: <http://medio-ingeno.ch/>
- Schwerpunkte: FileMaker, Sql, Web, Mobile; Hosting mit i-on AG: <http://i-on.ch/>
- FileMaker Business Alliance Platinum
- 8 feste Berater/Entwickler + Freelancer
- Einer davon: **Michael Jupe** (FileMaker Certified Developer)

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Die Nr. 1 für FileMaker-Lösungen in der Schweiz

Themen

- Vorstellung
- Kurze Einführung: Cloud / Amazon Web Services / FileMaker Cloud
- Bestellen und Einrichten der FileMaker Cloud
- FileMaker Cloud Admin Console
- Anforderungen, Kosten, Vergleiche, Wissenswertes
- Fragen und Diskussion

Cloud

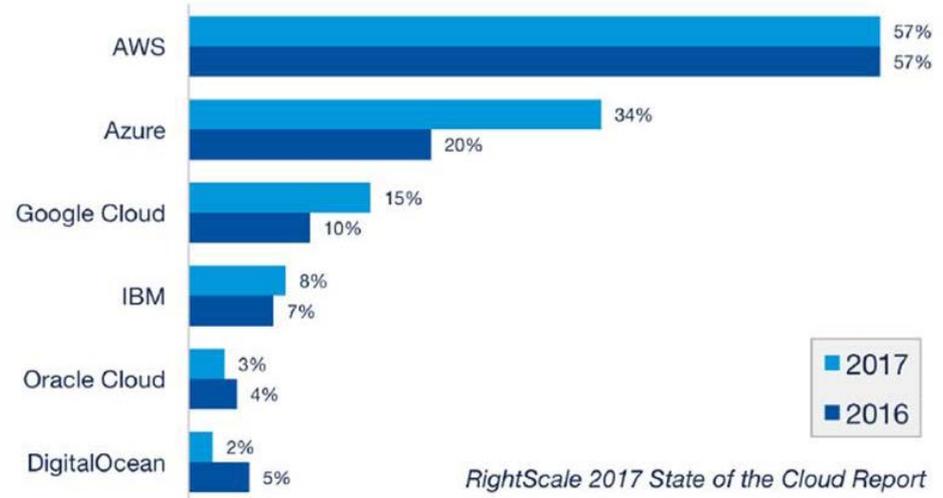
- Bereitstellung von IT-Ressourcen / Anwendungen
- via Internet
- skalierbar, nutzungsabhängige Preise

Amazon Web Services

- Seit 2006
- Grösster Anbieter
- Globale Infrastruktur
- Günstige Preise
- Breites Angebot
- Richtet sich an Infrastruktur-Profis und Entwickler, erfordert profundes „Cloud-Wissen“
- Derzeit noch kein ausgeprägtes Partnernetzwerk (da Self-Service-Modell)

Public Cloud Adoption 2017 vs. 2016

% of Respondents Running Applications



FileMaker Cloud

- FileMaker bietet seit 2015 Cloud-Hosting an:
 - mit AWS als Basis
 - zunächst nur in Nordamerika, seit 2017 auch in Europa
 - ab FM 15

Kaufoptionen

Für den Einsatz von FileMaker Cloud benötigen Sie:

Den Erwerb von
AWS-Dienstleistungen



Den Erwerb von
FileMaker Cloud-Software



Was kauft man?

von AWS

- EC2: Rechenleistung
- EBS: Speicher
- Datentransfer

Elastic Compute Cloud (EC2):
Rechenleistung in den
Amazon-Rechenzentren

Elastic Block Storage (EBS):
stellt Speicher zur Verfügung

von FileMaker

- FileMaker-Lizenz für Cloud-Server
(und Verbindungen/Clients)

FileMaker Cloud: vier Kaufoptionen

14 Tage FMC-Test
25 \$ AWS-Guthaben

Bring Your Own License (BYOL)

oder Von AWS kaufen

Kaufen Sie eine neue Lizenz von FileMaker, Inc.

1

Bringen Sie Ihre bestehende Jahres-Mietlizenz über BYOL in AWS ein

2

Wandeln Sie Ihre bestehende unbefristete Lizenz um und bringen Sie sie in AWS ein

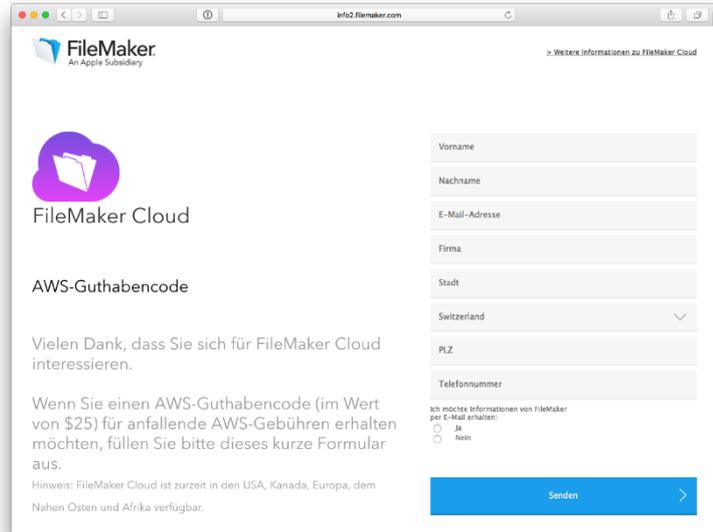
3

Kaufen Sie eine neue Lizenz über den AWS Marketplace

4

Pakete: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100
Rabattierte Lizenzen

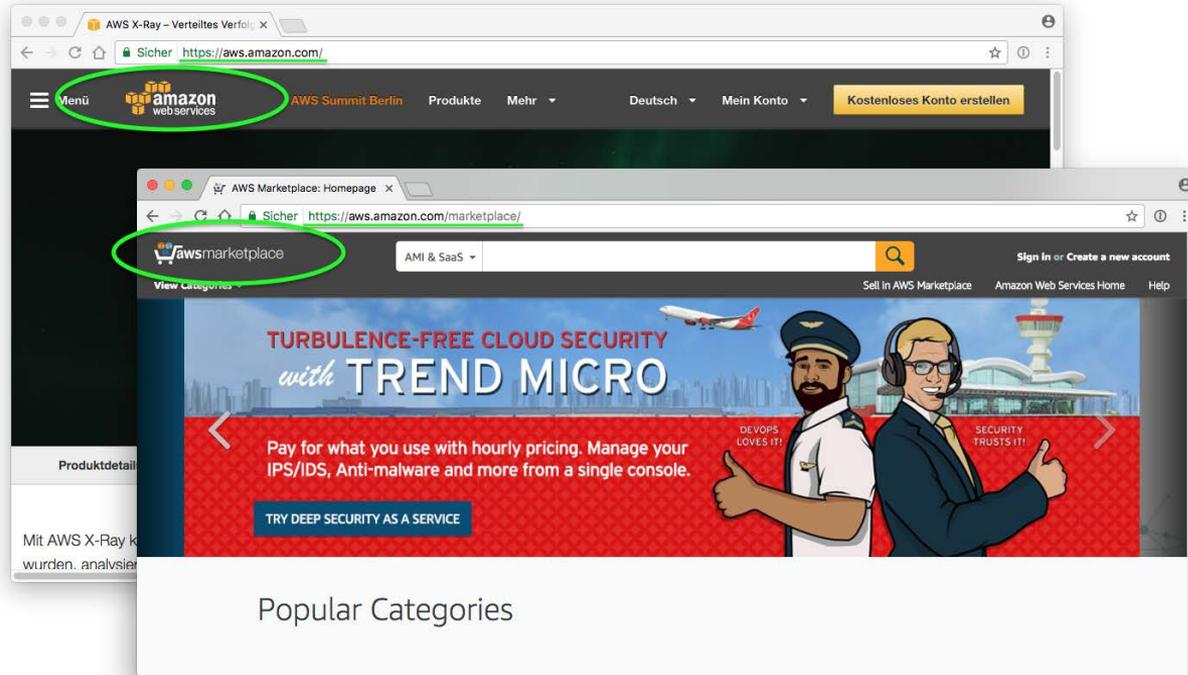
Pakete: 5, 10, 25, 100
Stundenweise Abrechnung



The screenshot shows a web browser window with the URL `info2.filemaker.com`. The page features the FileMaker logo (An Apple subsidiary) and the FileMaker Cloud logo. The main heading is "AWS-Guthabencode". Below this, there is a thank-you message and a request for an AWS account code to receive a \$25 credit. A form on the right side of the page contains the following fields: "Vorname", "Nachname", "E-Mail-Adresse", "Firma", "Stadt", "Switzerland" (a dropdown menu), "PLZ", and "Telefonnummer". At the bottom of the form, there is a checkbox for "Ich möchte Informationen von FileMaker per E-Mail erhalten:" with radio buttons for "Ja" and "Nein". A blue "Senden" button is located at the bottom right of the form.

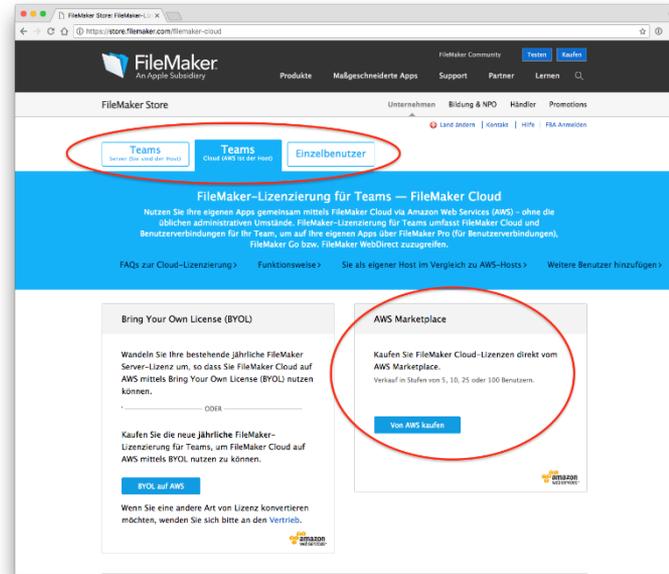
http://info2.filemaker.com/aws_credit.html

AWS: Konto



FileMaker-Cloud erwerben für Probeversion [1]

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<https://store.filemaker.com/filemaker-cloud>

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FileMaker-Cloud erwerben für Probeversion [2]

The collage consists of four screenshots from the AWS Marketplace website, showing the process of purchasing FileMaker Cloud (5 users) for a trial period. The screenshots are annotated with red and green circles and arrows highlighting key elements:

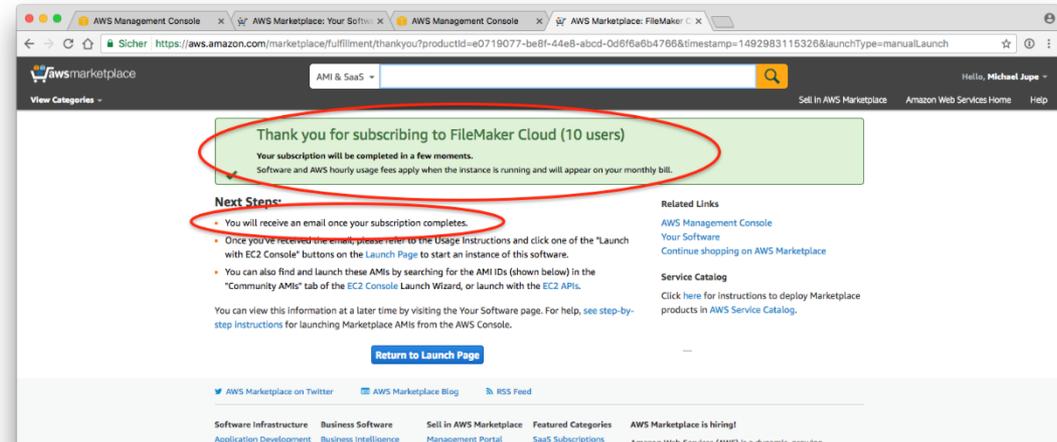
- Top Left:** Shows the product listing for FileMaker Cloud (5 users) with a green arrow pointing to the 'New Trial' button.
- Top Right:** Shows the 'Continue' button highlighted with a red circle, indicating the next step in the purchase process.
- Bottom Left:** Shows the 'Accept Software Terms' button highlighted with a red circle, indicating the step to accept the software license agreement.
- Bottom Right:** Shows the 'Launch with EC2' button highlighted with a green circle, indicating the step to launch the software on Amazon EC2.

The screenshots also show various details about the product, including pricing information, product description, and software terms. The pricing information table is as follows:

FileMaker Cloud (5 users) - Hourly	EU (Frankfurt)	US (Virginia)
FileMaker Cloud (5 users) - Hourly	\$0.99	\$0.57
FileMaker Cloud (5 users) - Monthly	\$29.99	\$18.19
FileMaker Cloud (5 users) - Annual	\$299.99	\$181.99
FileMaker Cloud (5 users) - 3-Year	\$299.99	\$181.99

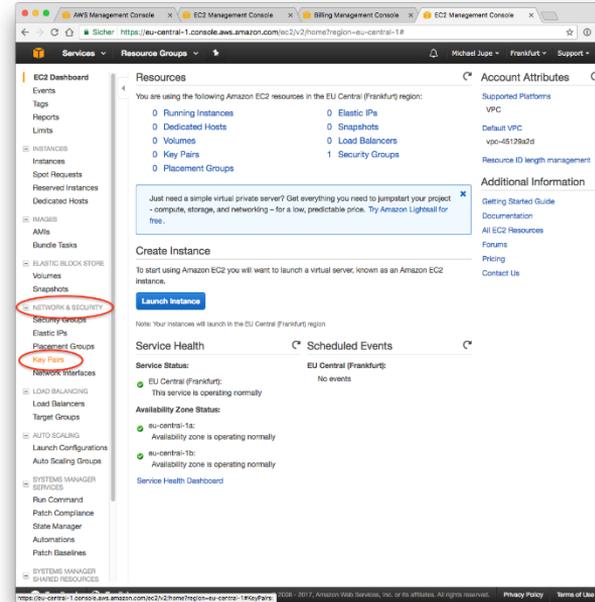
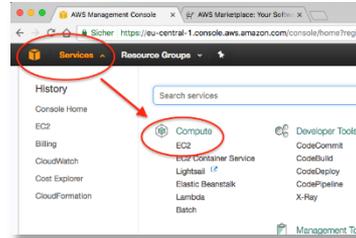
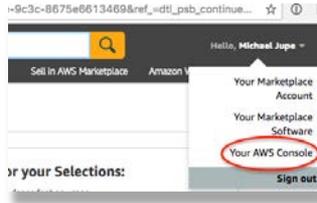
FileMaker-Cloud erwerben für Probeversion [3]

14



Nach Akzeptieren der Software-Bedingungen: Bestätigungs-Mail abwarten.

AWS: EC2-Schlüsselpaar erstellen



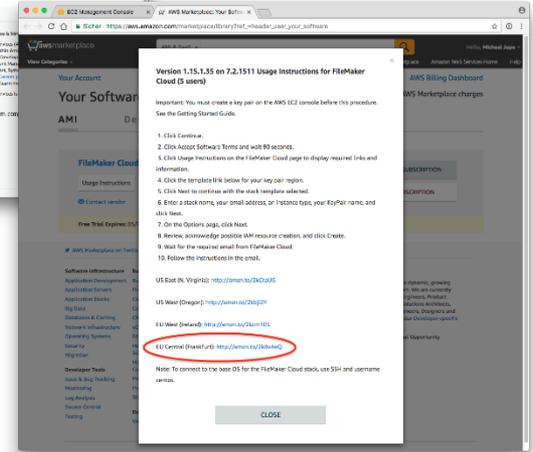
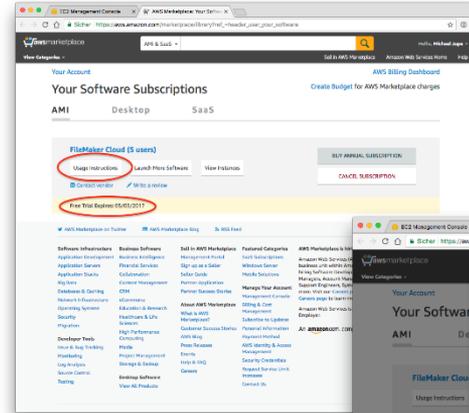
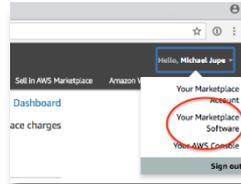
AWS: EC2 instance / stack erstellen [1]

■ Instance

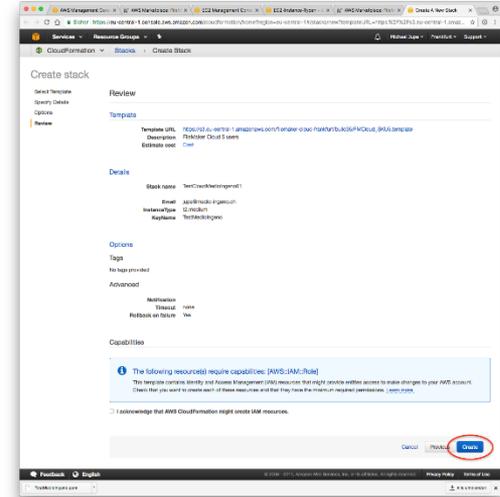
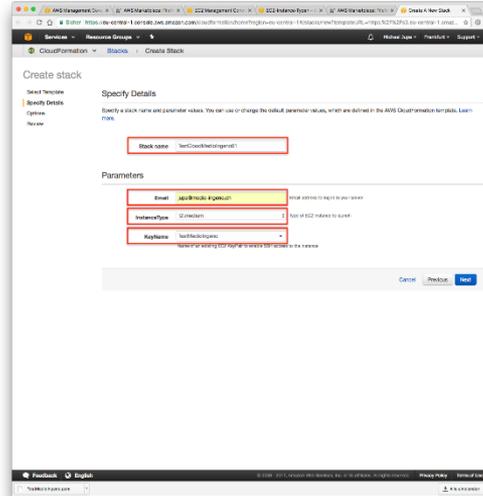
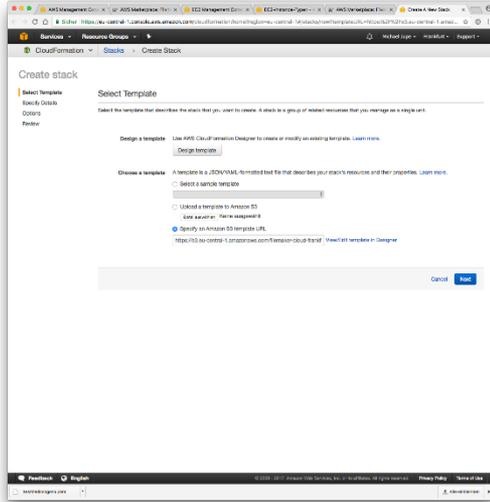
= virtueller Server,
Teil von EC2

■ Stack

= „a group of related
sources that are managed
as a single unit“



AWS: EC2 instance / stack erstellen [2]



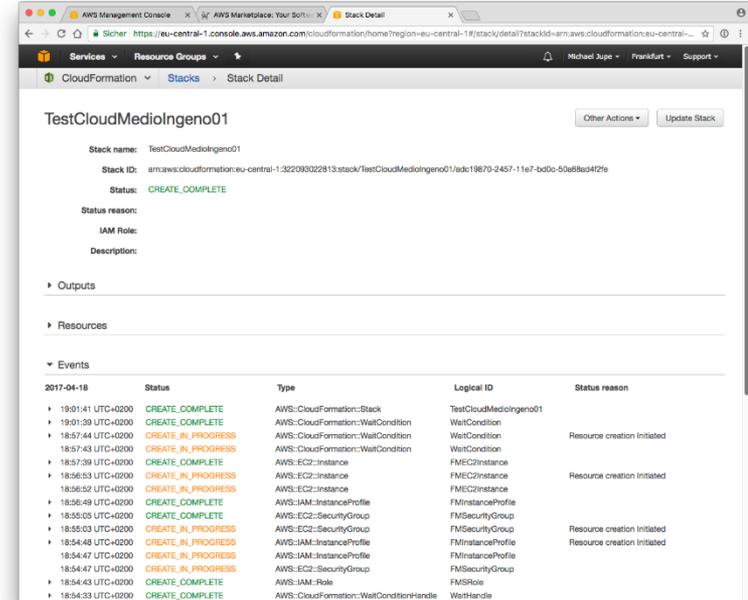
AWS: EC2 *instance* / *stack* erstellen [3]

■ CREATE_IN_PROGRESS

zeigt an, dass der EC2 stack aufgebaut wird.
Dies dauert einige Zeit. Vorgang nicht unterbrechen.

■ CREATE_COMPLETE

zeigt an, dass der EC2 stack verfügbar ist.



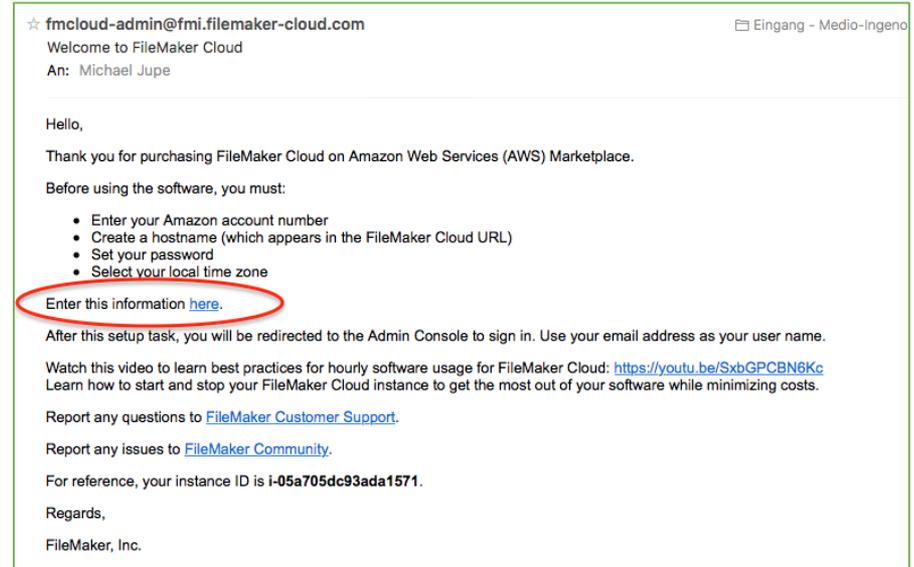
The screenshot shows the AWS Management Console interface for a CloudFormation stack named 'TestCloudMediogeno01'. The stack is in the 'CREATE_COMPLETE' state. The console displays the stack name, ID, status, and a list of events. The events table shows a sequence of operations including 'CREATE_COMPLETE' and 'CREATE_IN_PROGRESS' for various resources like IAM roles, security groups, and EC2 instances.

2017-04-18	Status	Type	Logical ID	Status reason
19:01:41 UTC+0200	CREATE_COMPLETE	AWS::CloudFormation::Stack	TestCloudMediogeno01	
19:01:39 UTC+0200	CREATE_COMPLETE	AWS::CloudFormation::WaitCondition	WaitCondition	
18:57:44 UTC+0200	CREATE_IN_PROGRESS	AWS::CloudFormation::WaitCondition	WaitCondition	Resource creation initiated
18:57:43 UTC+0200	CREATE_IN_PROGRESS	AWS::CloudFormation::WaitCondition	WaitCondition	
18:57:39 UTC+0200	CREATE_COMPLETE	AWS::EC2::Instance	FMEC2Instance	Resource creation initiated
18:56:53 UTC+0200	CREATE_IN_PROGRESS	AWS::EC2::Instance	FMEC2Instance	
18:56:52 UTC+0200	CREATE_IN_PROGRESS	AWS::EC2::Instance	FMEC2Instance	Resource creation initiated
18:56:49 UTC+0200	CREATE_COMPLETE	AWS::IAM::InstanceProfile	FMInstanceProfile	
18:55:05 UTC+0200	CREATE_COMPLETE	AWS::EC2::SecurityGroup	FMSecurityGroup	
18:55:03 UTC+0200	CREATE_IN_PROGRESS	AWS::EC2::SecurityGroup	FMSecurityGroup	Resource creation initiated
18:54:49 UTC+0200	CREATE_IN_PROGRESS	AWS::IAM::InstanceProfile	FMInstanceProfile	Resource creation initiated
18:54:47 UTC+0200	CREATE_IN_PROGRESS	AWS::IAM::InstanceProfile	FMInstanceProfile	
18:54:47 UTC+0200	CREATE_IN_PROGRESS	AWS::EC2::SecurityGroup	FMSecurityGroup	
18:54:43 UTC+0200	CREATE_COMPLETE	AWS::IAM::Role	FMSRole	
18:54:33 UTC+0200	CREATE_COMPLETE	AWS::CloudFormation::WaitConditionHandle	WaitHandle	

AWS: EC2 *instance* / *stack* erstellen [4]

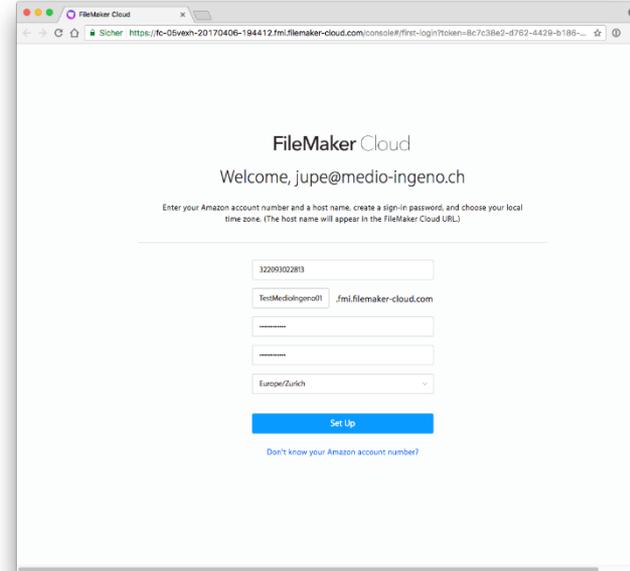
19

- Warten, bis die FMC instance erstellt wurde
- Warten auf Bestätigungsmail von FileMaker
- In der Nachricht auf *Enter this Information* [here](#) klicken



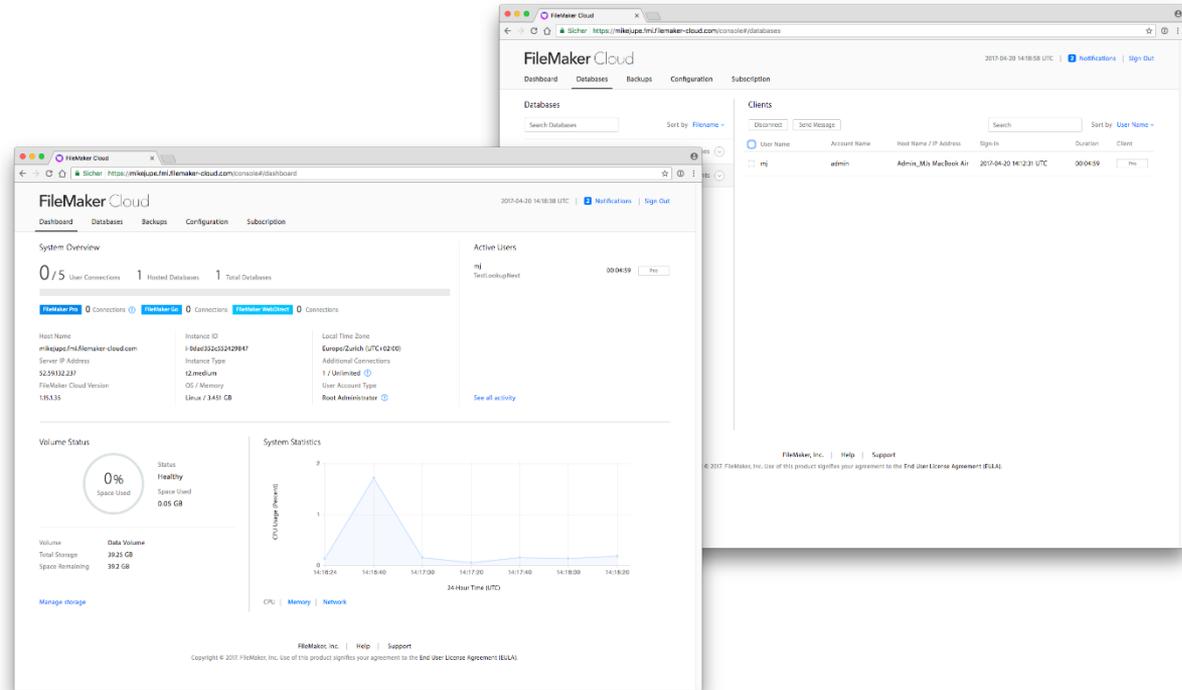
AWS: EC2 instance / stack erstellen [5]

- U.U.: ungültige Hostnamen
- Danach kann das Sicherheitszertifikat aktualisiert werden.



Admin Console [1]: Dashboard, Databases

- Überblick über wichtige Status und Prozesse
- Der FM-Server-Admin-Console ähnlich



Admin Console [2]: Backups

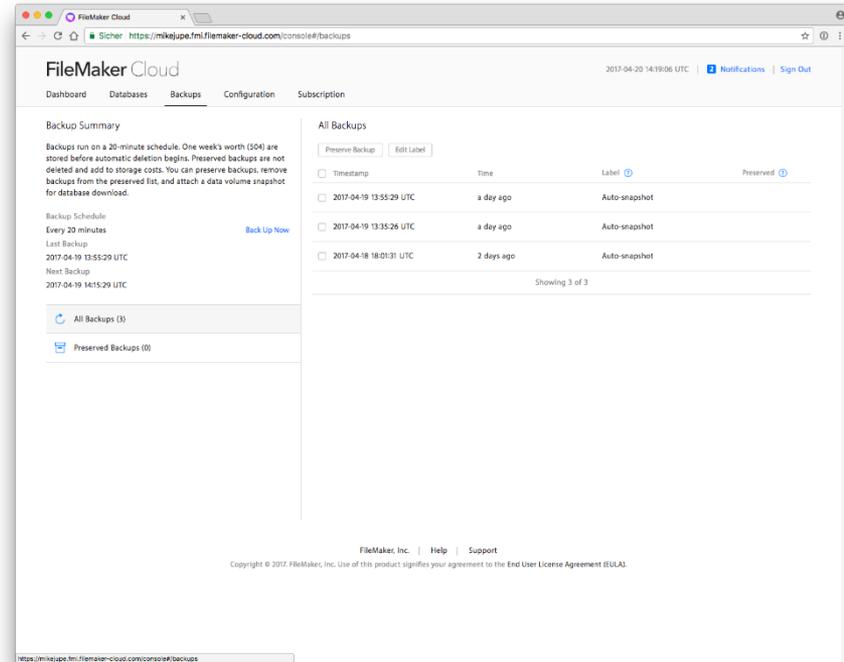
■ Drei Arten:

- Auto-snapshot
- Auto-maintenance
- On-demand

■ Amazon EBS Snapshots

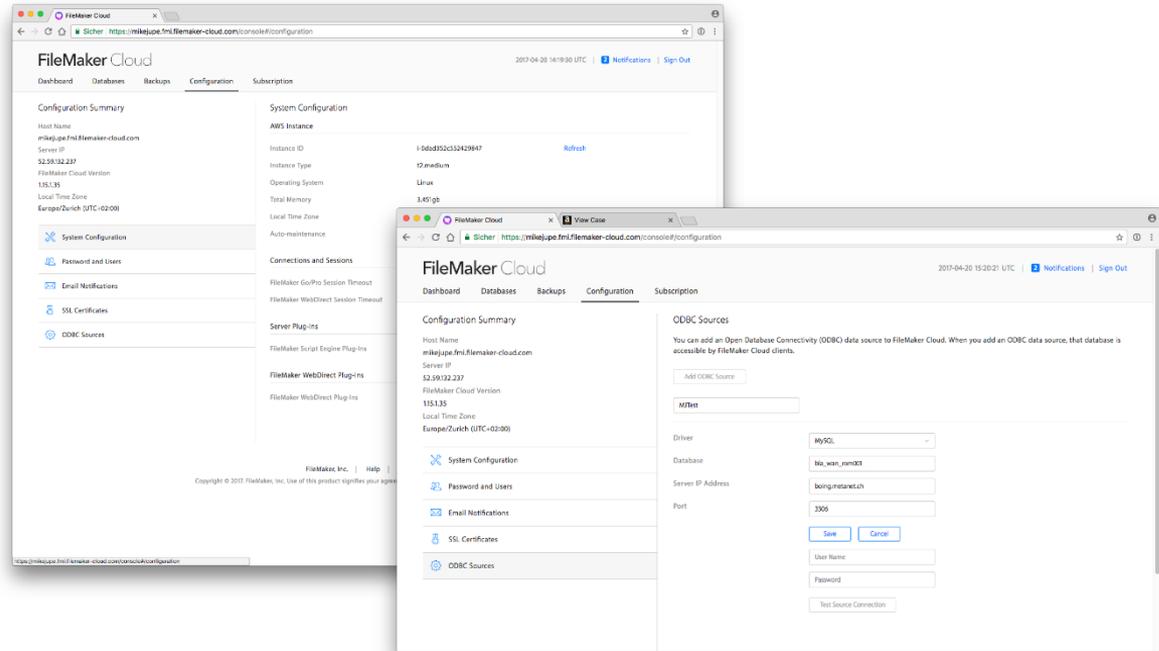
= inkrementelle Sicherungen, die Daten sichern, die sich geändert haben. Finden alle 20 Minuten statt.

- Backups bis max. 1 Woche, archivierbar z.B. manuell oder per Amazon S3



Admin Console [3]: Configuration

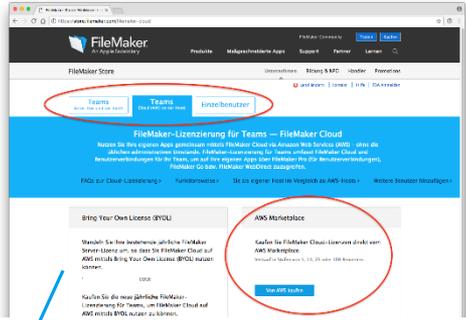
- Passwörter, Timeouts, E-mail-Benachrichtungen usw.
- ODBC-Verbindungen



Zusammenfassung: Wo bin ich?

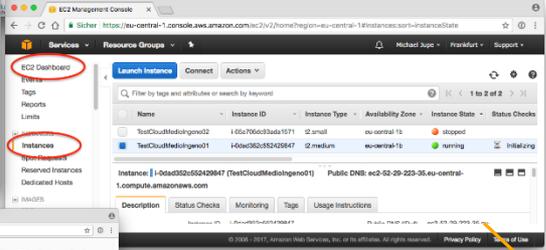
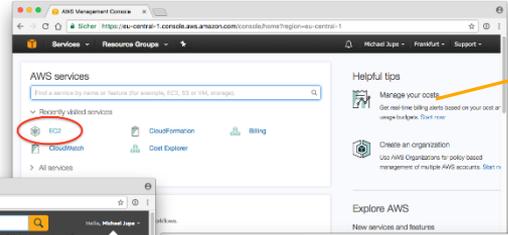
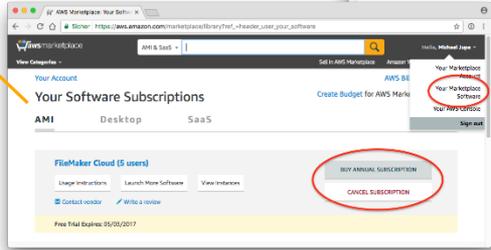
AWS Marketplace:
Kaufen / Verlängern /
Abbestellen von
AWS-Diensten

AWS Console:
Einstellungen der
AWS-Komponenten,
wie z.B. EC2

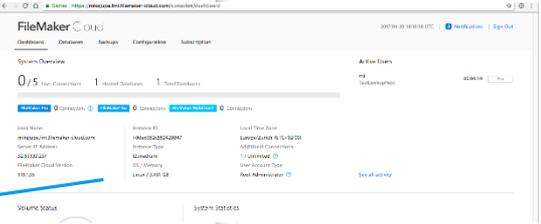
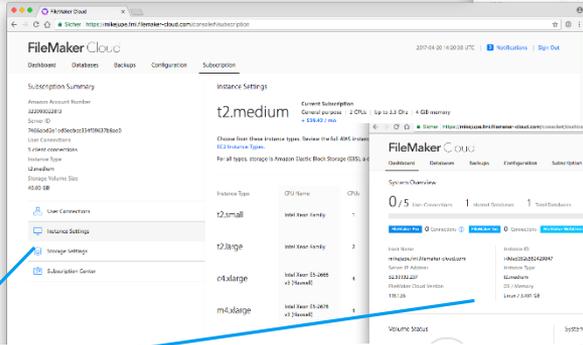


FM Store:
Kaufen von FM- /
AWS-Diensten

FM Cloud Console:
Klassische FM-
Server-Aufgaben +
AWS-Komponenten



AWS EC2 Dashboard:
EC2-Einstellungen,
-Berichte, -Key-Pairs



FMC: Anforderungen [1]

- <http://www.filemaker.com/de/products/filemaker-cloud/specifications.html>
- FileMaker Cloud 1.15.1: FileMaker Pro/Go 15.0.2, WebDirect
- Unterstützte AWS Data Centers in Europa: EU - Frankfurt, EU - Irland; zukünftig: London, Paris
- 40 GB Speicher (kann bei AWS erweitert werden)

FMC: Anforderungen [2]: EC2 instance types

- Sehr grosse Auswahl unter:
<https://aws.amazon.com/de/ec2/instance-types/>
- FileMaker hat eine Vorauswahl getroffen:
<http://www.filemaker.com/de/products/filemaker-cloud/specifications.html>

Benutzer	AWS EC2-Instanztyp	CPU	Speicher
5	t2.small*	1	2 GB
	t2.medium	2	4 GB
	t2.large	2	8 GB
	c4.xlarge	4	8 GB
	m4.xlarge	4	16 GB
10	t2.medium	2	4 GB
	t2.large	2	8 GB
	c4.xlarge	4	8 GB
	m4.xlarge	4	16 GB
	m4.2xlarge	8	32 GB
25	t2.large	2	8 GB
	c4.xlarge	4	8 GB
	m4.xlarge	4	16 GB
	m4.2xlarge	8	32 GB
	m4.4xlarge	16	64 GB

Benutzer	AWS EC2-Instanztyp	CPU	Speicher
100	c4.xlarge	4	8 GB
	m4.xlarge	4	16 GB
	m4.2xlarge	8	32 GB
	m4.4xlarge	16	64 GB
	m4.10xlarge	40	160 GB
BYOL	t2.small*	1	2 GB
	t2.medium	2	4 GB
	t2.large	2	8 GB
	c4.xlarge	4	8 GB
	m4.xlarge	4	16 GB
	m4.2xlarge	8	32 GB
m4.4xlarge	16	64 GB	
m4.10xlarge	40	160 GB	

FMC: Anforderungen [3]: Empfehlungen

Type	Description	Use for
t2.small	Used for workloads that don't use the full CPU often or consistently, but occasionally need to "burst" (surge). The baseline performance and ability to burst are governed by CPU Credits.	Early product experiments, small databases
t2.medium		
t2.large		
m4.xlarge	Provides a balance of compute, memory, and network resources. A good choice for many applications. Provides EBS optimization through dedicated EBS throughput of 750 Mbps. Provides support for EC2 Enhanced Networking.	Most applications
m4.2xlarge		
m4.4xlarge		
m4.10xlarge		
c4.xlarge	Features the highest performing processors and the lowest price/compute performance in EC2. Provides EBS optimization through dedicated EBS throughput of 750 Mbps. Provides support for Enhanced Networking and Clustering.	High compute performance and advanced optimization

Q: FMC Getting Started Guide

■ Kapazitäten

Clients	Getestet	Theoretisch
FileMaker Pro	250	Unbegrenzt**
FileMaker Pro (für Benutzerverbindungen)	100	100
FileMaker Go	100	100
FileMaker WebDirect	100	100

* Verbindungen sind nur durch den Amazon EC2-Instanztyp und das App-Design beschränkt.

■ Zusätzlich unterstützte Technologien

Technologie	Unterstützt
ESS	Ja
ESS Adapter	Nein
ODBC/JDBC	Ja
Plug-Ins*	Ja
Custom Web Publishing mit PHP	Nein
Custom Web Publishing mit XML	Nein

* Fragen Sie Ihren Provider nach der Verfügbarkeit bestimmter Plug-Ins.

Vergleich FM Cloud – FM Server

Category	FileMaker Server	FileMaker Cloud
Authentication	Supports external authentication via Active Directory / Open Directory	Supports custom app authentication via FileMaker user accounts only
Network Uptime	Dependent on your internal network and system. High availability can be resource intensive - costing both time and money	AWS EC2 Service Level Agreement is a monthly uptime of 99.95%
Automation	Schedule server scripts as needed	Not able to schedule server scripts
ESS	Supported	Supported, except for ESS Adapter
ODBC / JDBC	Supported. Drivers need to be installed	Supported. Drivers are provided
Plug-ins	Supported	Supported. Check with your provider for availability of specific plug-ins.
CWP (PHP/XML)	Supported	Not supported
Database visibility	Can display only files a user has access to.	All files are visible to all users.

Der vollständige Vergleich findet sich auf <https://www.filemaker.com/products/filemaker-cloud/compare.html>

Kosten

- FileMaker-Lizenzen
- + EC2-Rechenleistung (t2.medium, t2.large,...)
- + EBS Storage und Snapshots
- + Datentransfer

- AWS Simple Monthly Calculator: <https://calculator.s3.amazonaws.com/index.html>

Zu beachten

- Für den Test stündliche Abrechnung wählen und die EC2-Einheit stilllegen, wenn sie nicht benötigt wird.
- Die EC2-Instanz erzeugt auch ohne eine aktive FileMaker-Cloud-Einheit Kosten - nach Beenden des 14-tägigen-FMC-Angebotes auch die EC2-Einheit beenden.

Your FileMaker Cloud instance is a *compute resource* in AWS. If you have an hourly subscription, you pay on an hourly basis from the time you launch or start a compute resource until the time you stop or terminate it. (For data storage and transfer, you pay on a per gigabyte basis.) Q: FMC Getting Started Guide

- Mails lesen. Dort sind wichtige Fristdaten enthalten.

Cloud bei Digicomp

- Für viele Unternehmen ist der Gang in die Cloud heute der logische Schritt in der digitalen Transformation ihres Unternehmens.
- Lernen Sie in den Digicomp Seminaren und Hands-on-Trainings die verschiedenen Technologie-Lösungen von z.B. Microsoft und Amazon Web Services kennen.
- Ebenso können Sie sich in unseren Trainings auf strategischer Ebene auf einen Einsatz der Cloud in Ihrem Unternehmen vor.
- <https://www.digicomp.ch/trends/cloud-trainings>

FileMaker Cloud Event: Alle Links

Stand: 25.04.2017

- **MEDIO-INGENO AG** <http://medio-ingeno.ch/>
- **I-ON AG FILEMAKER-HOSTING** <http://i-on.ch/>
- *Offizielle Anleitung von FileMaker* FMC GETTING STARTED GUIDE (1) <http://fmhelp.filemaker.com/cloud/15/01/en/fmcgsg-aws/>
- *Offizielle Anleitung von FileMaker* FMC GETTING STARTED GUIDE (2) https://help.filemaker.com/app/answers/detail/a_id/16209/related/1
- **DIGICOMP CLOUD** <https://www.digicomp.ch/trends/cloud-trainings>
- **GUTSCHEIN** http://info2.filemaker.com/aws_credit.html
- **AWS** <https://aws.amazon.com/de/>
- **AWS MARKETPLACE** <https://aws.amazon.com/marketplace/>
- **FM STORE CLOUD** <https://store.filemaker.com/filemaker-cloud>
- **TECHNISCHES / ANFORDERUNGEN / FM-AWS-INSTANCES** <http://www.filemaker.com/de/products/filemaker-cloud/specifications.html>
- **AWS INSTANCE TYPES** <https://aws.amazon.com/de/ec2/instance-types/>
- **AWS SIMPLE MONTHLY CALCULATOR:** <https://calculator.s3.amazonaws.com/index.html>
- **VERGLEICH FMC – FMS** <https://www.filemaker.com/products/filemaker-cloud/compare.html>
- **FMNEXT** <http://fmnext.ch>

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FileMaker Produkt Neuigkeiten 2017

16. Mai 2017, ab 17:00 Uhr

Restaurant Löwen in Meilen

<http://fmnext.ch>

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Die Nr. 1 für FileMaker-Lösungen in der Schweiz