psc_ TRANSITION TECHNOLOGIES

Z AWS za pan brat

Michał Dubel

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https://www.linkedin.com/in/**dubelmichal**/

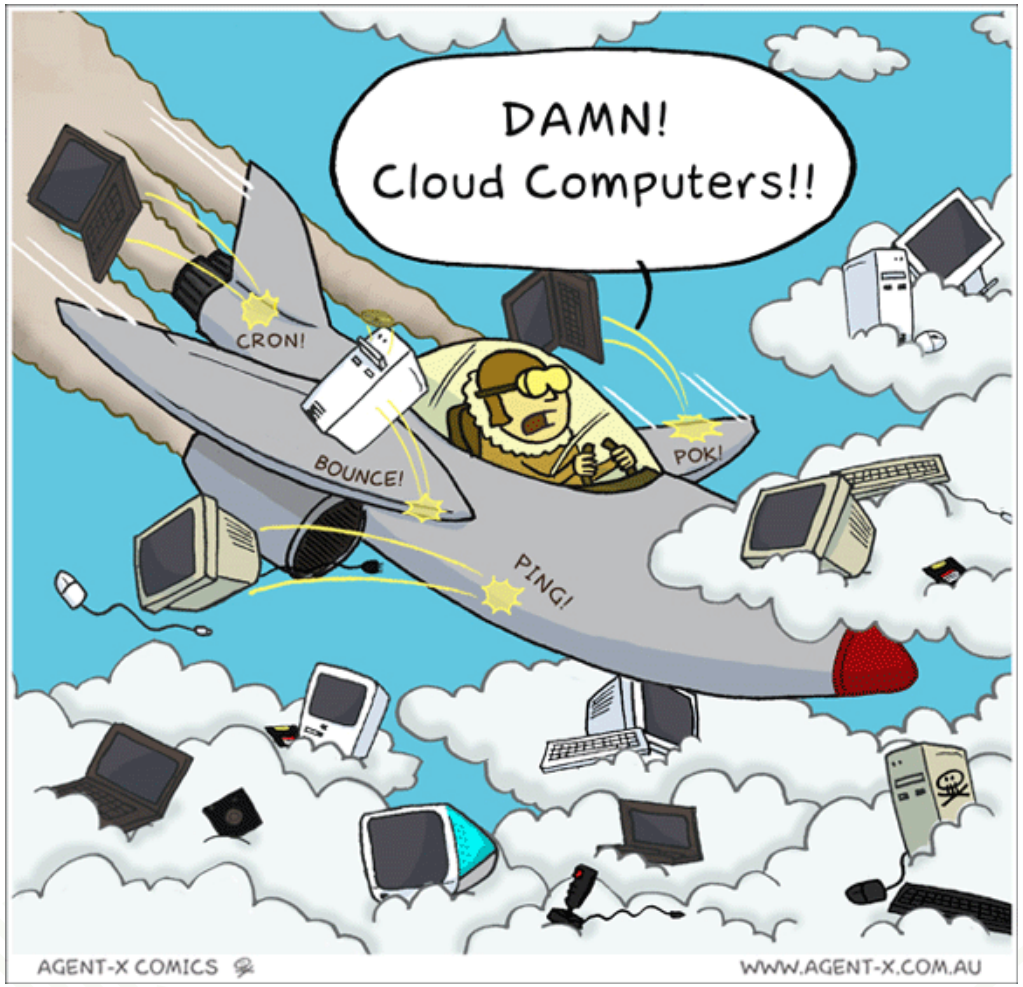
https://github.com/**dubel**

michal.dubel [at] gmail.com

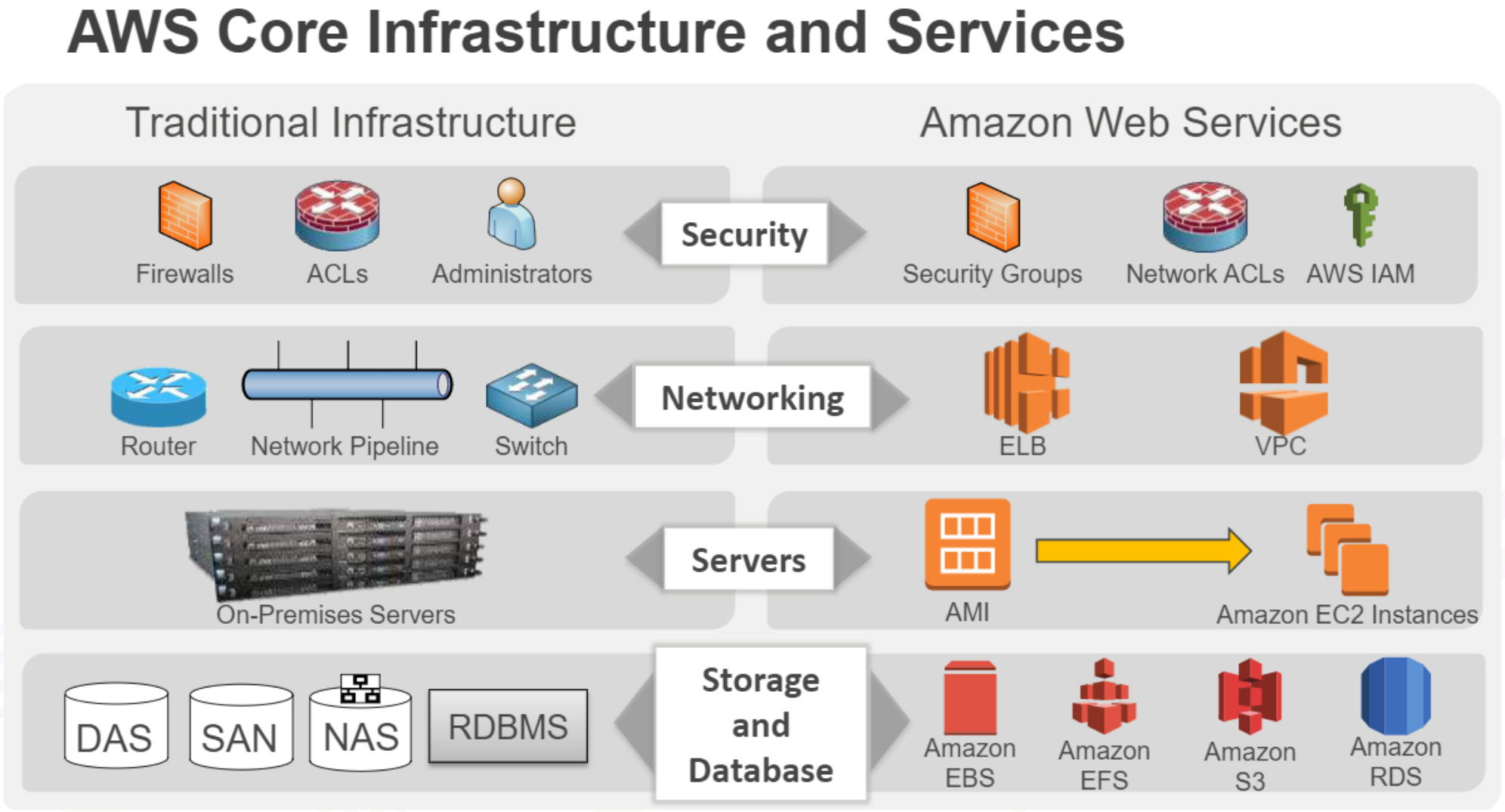
Agenda

- AWS intro + dobre praktyki
- AWS SDK (oraz console i CLI)
- IaC
- Serverless
- AWS (+ Raspberry) vs Deep Learning
- Q&A

Chmury, wszędzie chmury

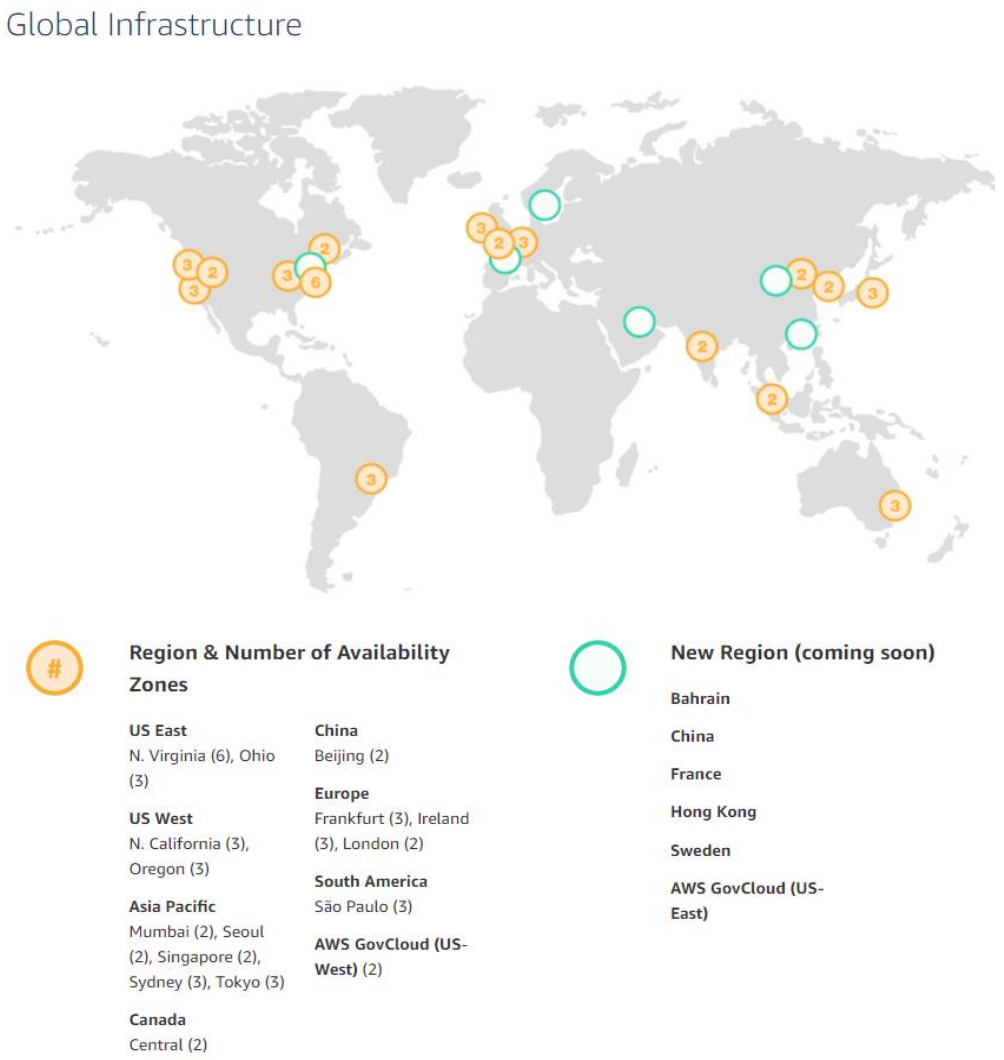


https://quartsoft.com/blog/201303/saas-iaas-and-paas-cloud-computing



https://www.slideshare.net/AmazonWebServices/bootcamp-getting-started-on-aws (slajd 9)

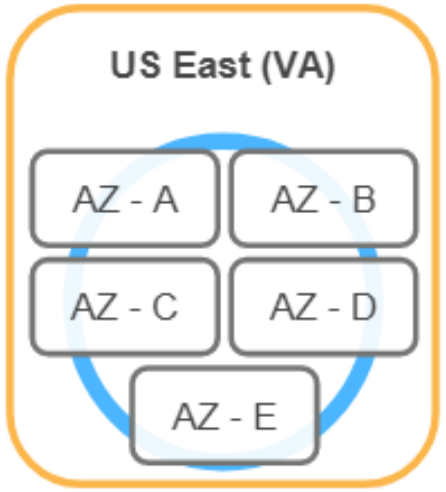
Globalna Infrastruktura



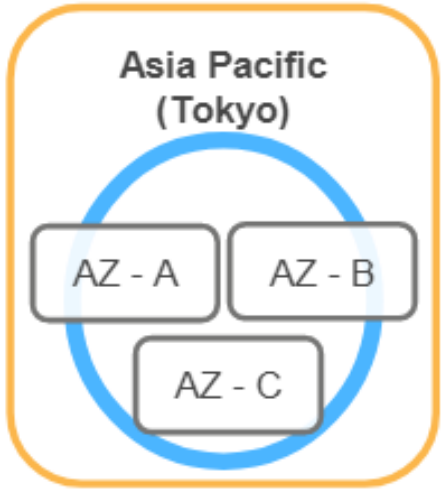
https://aws.amazon.com/about-aws/global-infrastructure/

Regiony -> AZ

- US East (N. Virginia)
  - us-east-1a
  - us-east-1b
  - us-east-1c
  - us-east-1d
  - us-east-1e



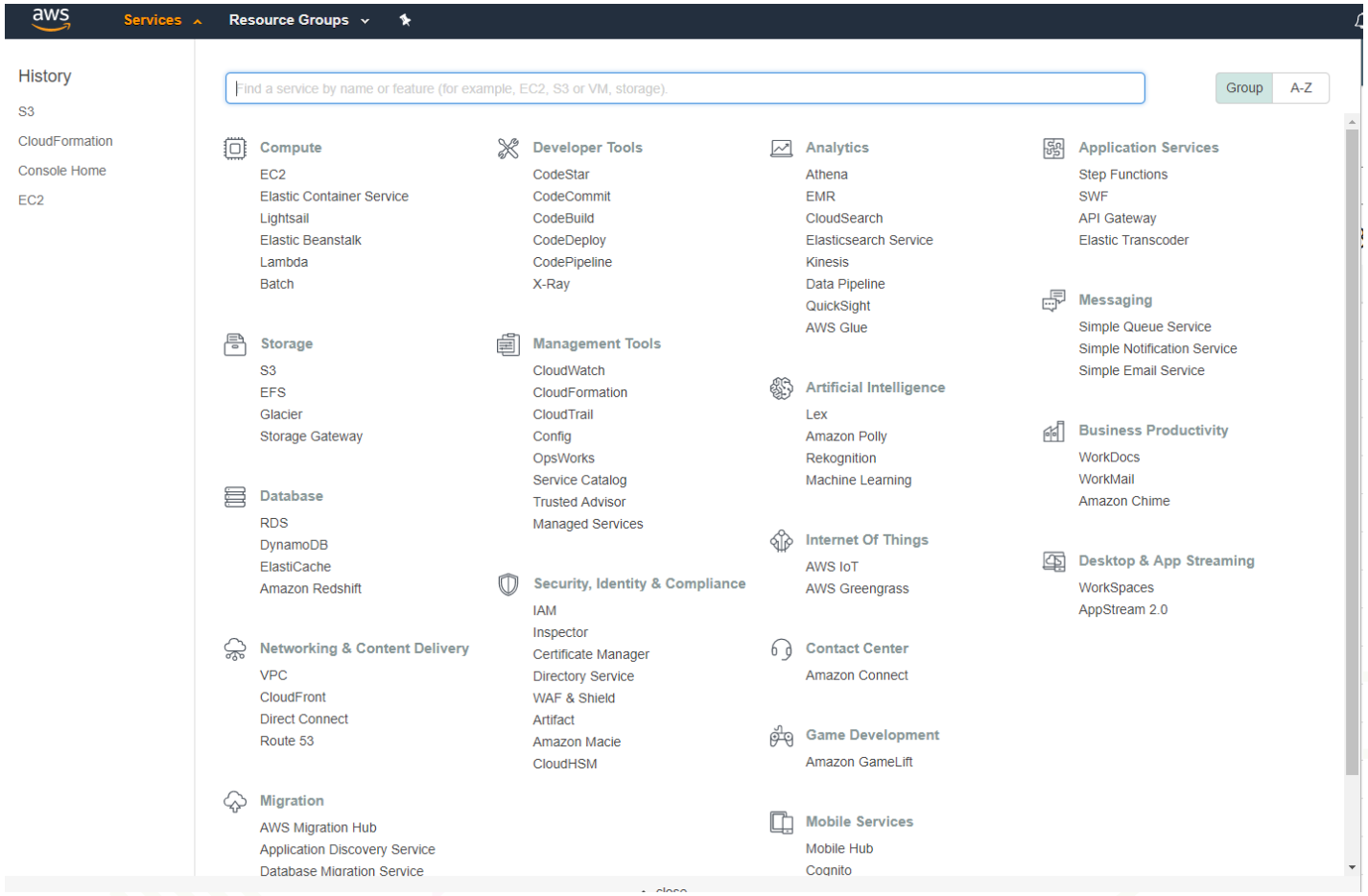
- Asia Pacific (Tokyo)
  - ap-northeast-1a
  - ap-northeast-1b
  - ap-northeast-1c



Note: Conceptual drawing only. The number of Availability Zones (AZ) may vary.

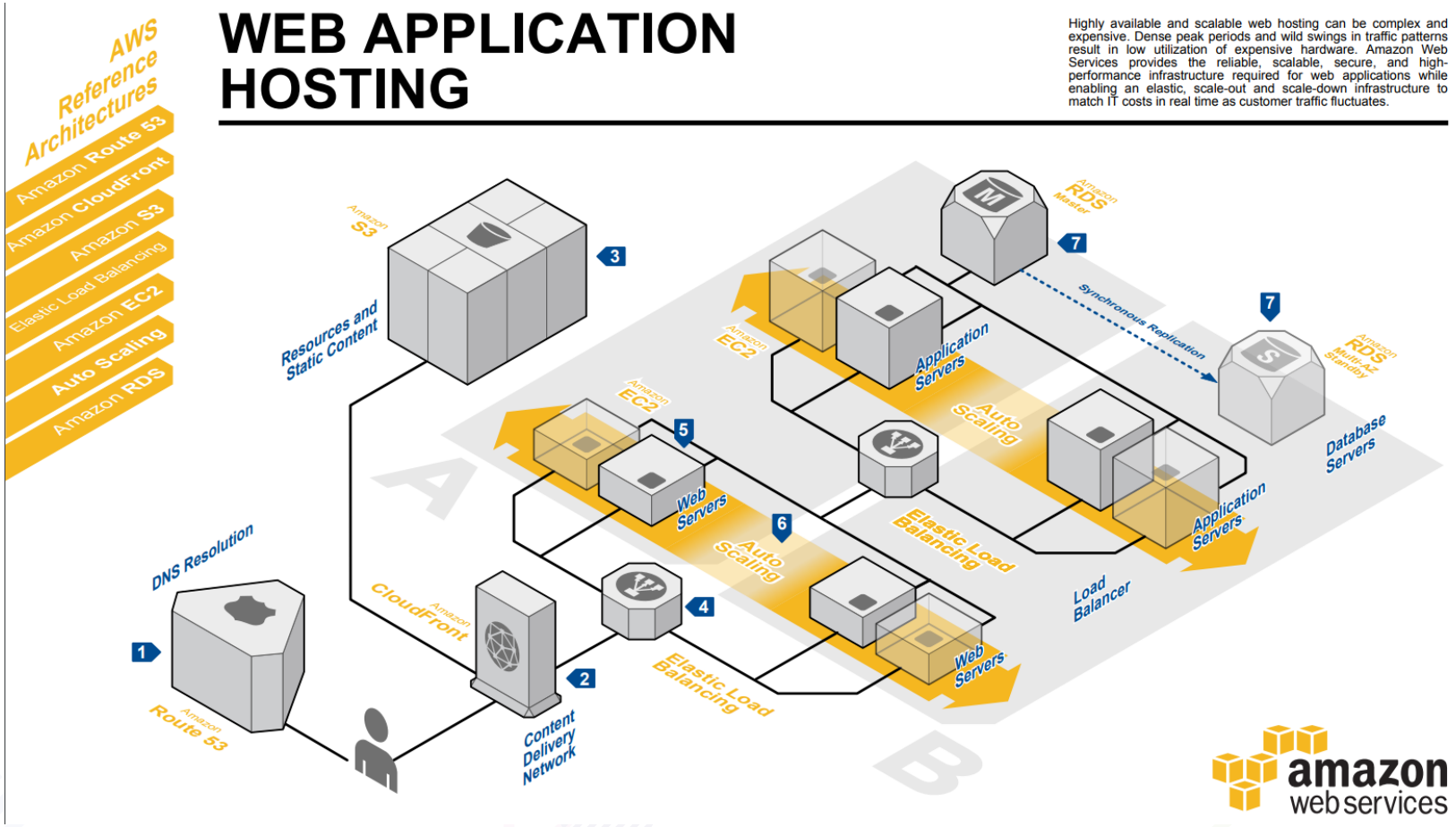
https://www.slideshare.net/AmazonWebServices/bootcamp-getting-started-on-aws (slajd 14)

Serwisy



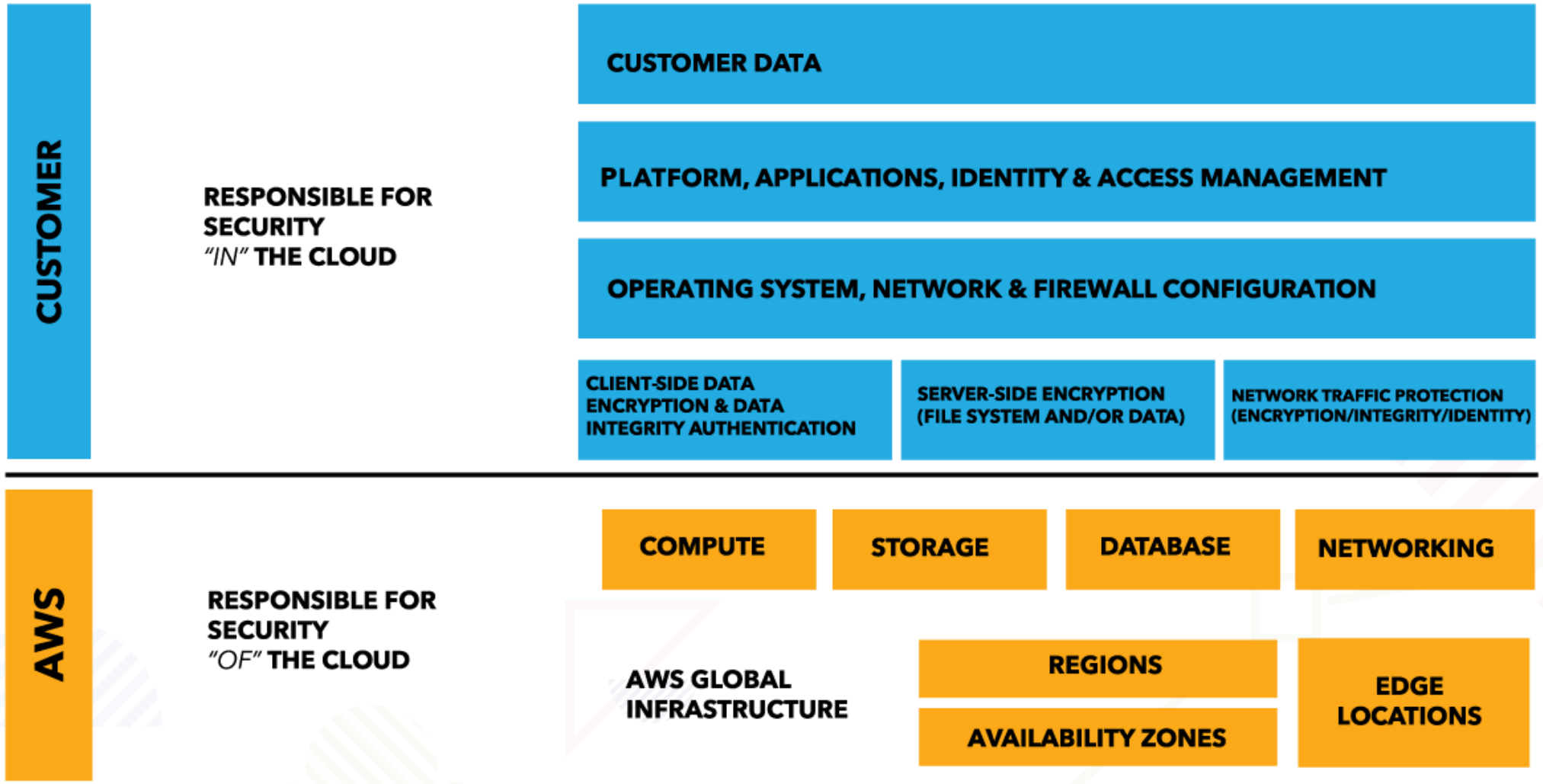
https://aws.amazon.com/console/

HA z pudełka… nie zawsze



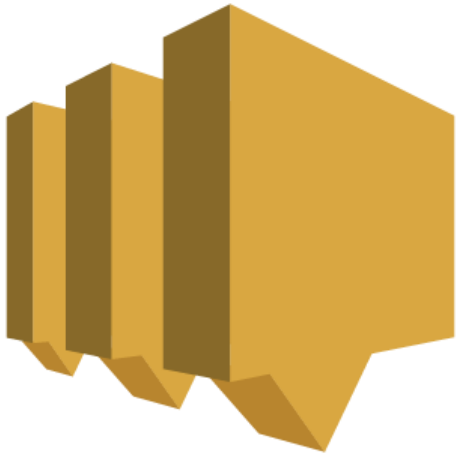
https://aws.amazon.com/blogs/startups/high-availability-for-mere-mortals/
https://aws.amazon.com/architecture/

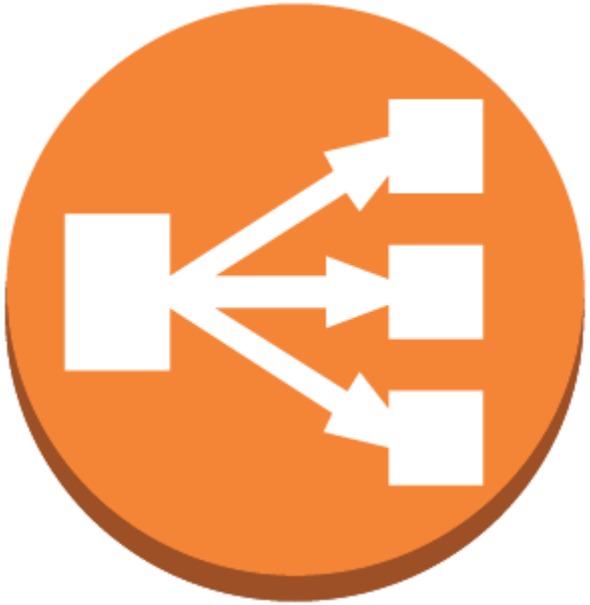
Shared Responsibility Model



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

Luźne powiązania





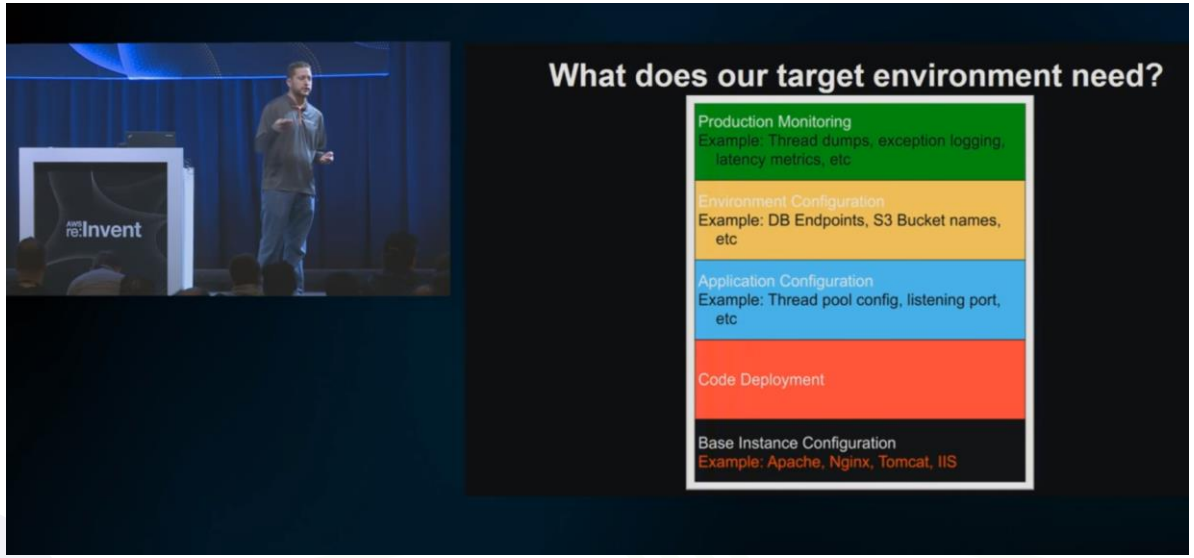
SNS, SQS, ELB

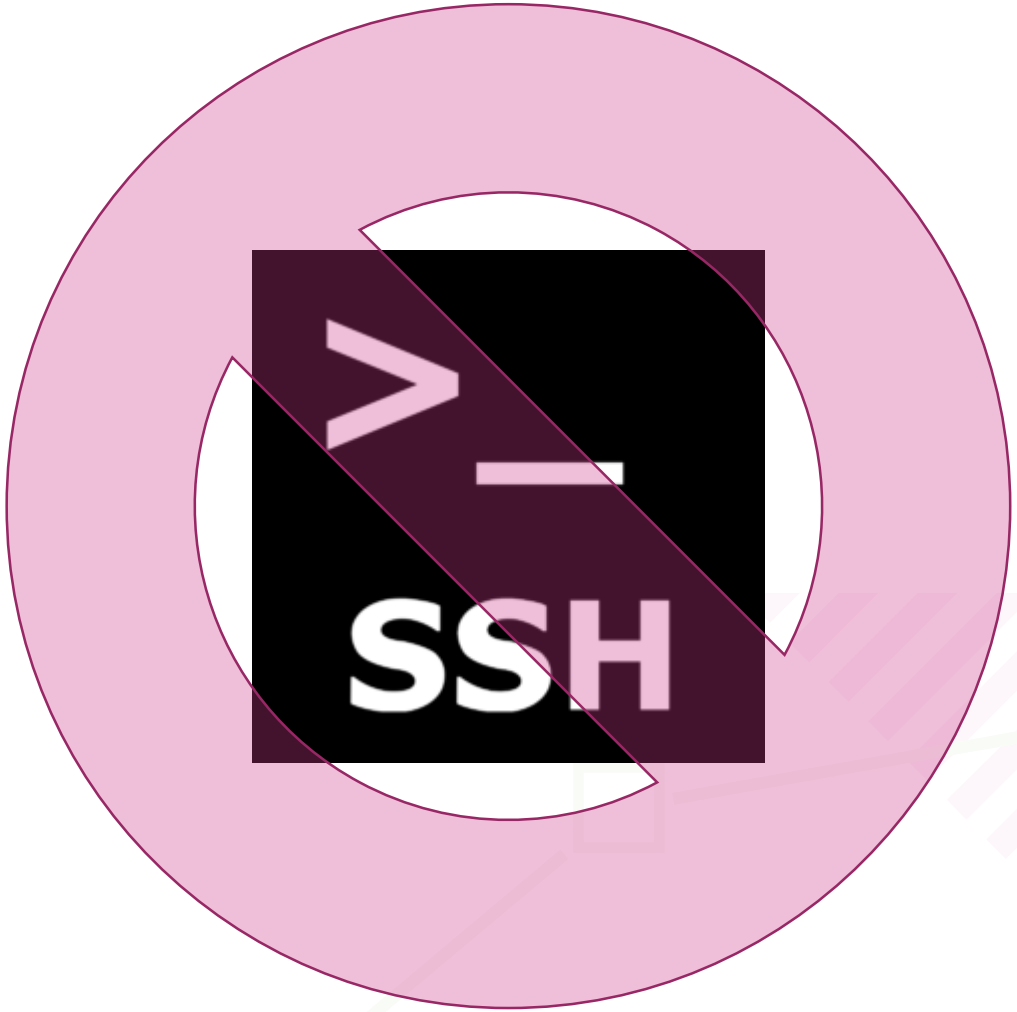
Fails, fails everywhere!

NETFLIX

https://github.com/Netflix/SimianArmy

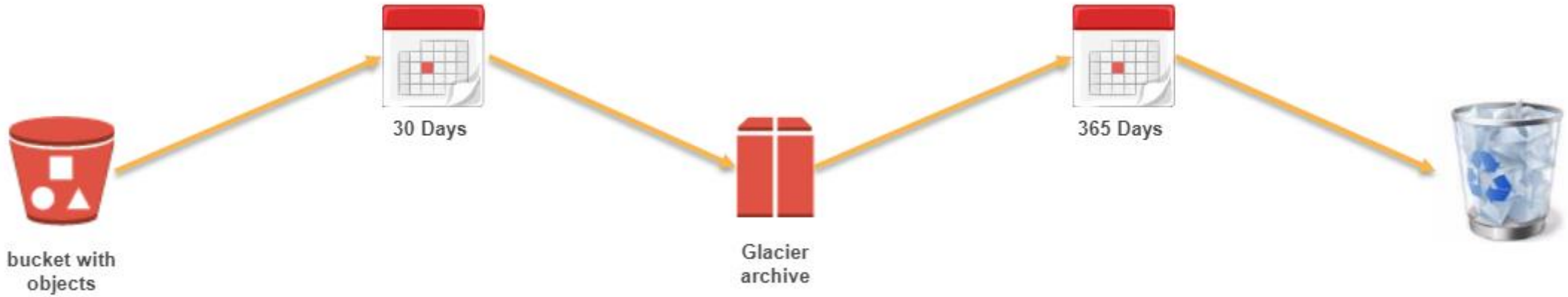
Immutable Architecture





Więcej - https://www.youtube.com/watch?v=fEuN5LkXfZk

Poznaj usługi – przykład S3 + Glacier



Amazon S3 Pricing

Storage Pricing (varies by

Region: US East (N. Virginia)

	Standard Storage
First 50 TB / month	$0.023 per GB
Next 450 TB / month	$0.022 per GB
Over 500 TB / month	$0.021 per GB

Amazon Glacier Pricing

Pay only for what you use. There is no minimum fee.

Storage Pricing

Region: US East (N. Virginia)

- $0.004 per GB / month

Opcje płatności maszyn EC2

Amazon EC2 Purchasing Options

On-Demand Instances

Pay by the **hour**.

Reserved Instances

Purchase, at a significant **discount**, instances that are **always available**

1-year to 3-year terms.

Scheduled Instances

Purchase instances that are **always available** on the specified **recurring schedule**, for a one-year term.

Spot Instances

Bid on **unused instances**, which can run as long as they are available and your bid is above the Spot price.

Dedicated Instances

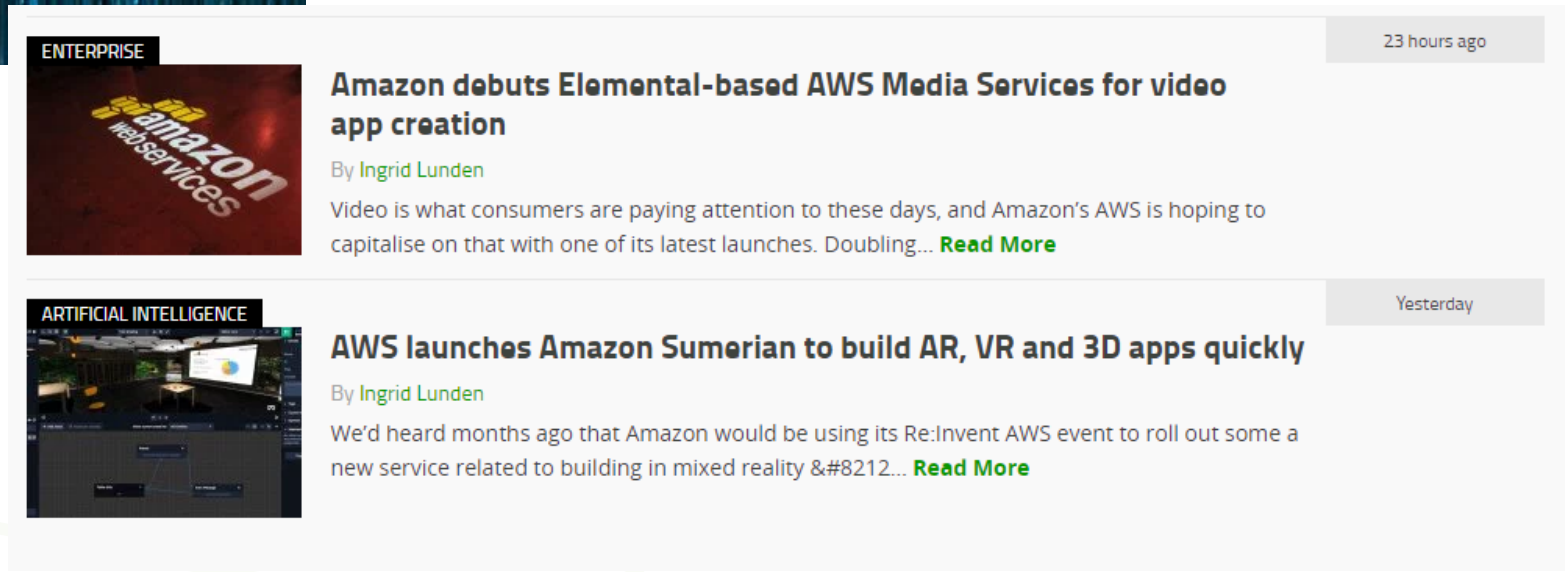
Pay, by the hour, for instances that run on **single-tenant hardware**.

Dedicated Hosts

Pay for a physical host that is **fully dedicated** to running your instances.

https://www.slideshare.net/AmazonWebServices/aws-partner-presentation-digicomp-awsome-day-zurich-112016 (slajd 58)

re:Invent 2017



https://reinvent.awsevents.com/
https://techcrunch.com/events/aws-reinvent-2017/coverage/

Przydatne materiały

- Ćwiczenia „hands-on” (część darmowych) - https://aws.amazon.com/training/intro-to-aws-labs/
- Blog AWS dla developerów - https://aws.amazon.com/blogs/developer/
- Zbiór filmów „AWS Masterclass” (każdy skupia się na jednej usłudze) - https://www.youtube.com/watch?v=GgLKodmL5xE&list=PLFifP_HeKxFk8hr-LA5XDlFfHOMosQJYp
- Szkolenie (aktualizowane) przygotowujące do certyfikacji - https://www.udemy.com/aws-certified-associate-architect-developer-sysops-admin
- Ogłoszenia nowości ze świata AWS - https://aws.amazon.com/about-aws/whats-new/2017/
- Ciekawe spojrzenie na AWS w ujęciu – „co chciałbym wiedzieć zanim zacząłem pracować z AWS” - https://wblinks.com/notes/aws-tips-i-wish-id-known-before-i-started/
- Projekt Alexa na RaspberrymPi - https://github.com/alexa/alexa-avs-sample-app/wiki/Raspberry-Pi
- AWS SDK 2.0 Developer Preview - https://aws.amazon.com/blogs/developer/aws-sdk-for-java-2-0-developer-preview/

www.ttpsc.pl

Looking forward to building a longterm partnership with You • Michał Dubel Michal.Dubel@ttpsc.pl