

# CheatSheet: Amazon AWS Products

## CLOUD

- PDF Link: [cheatsheet-aws-A4.pdf](#), Category: Cloud
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-aws-A4>
- Related posts: GCP CheatSheet, CheatSheet: Cloud Virtualization, [#denny-cheatsheets](#)

File me Issues or star this repo.

## 1.1 AWS ECS

| Name                         | Summary     |
|------------------------------|-------------|
| Delete Route53 zone From ECS | Use aws cli |

## 1.2 AWS Products - Fundamental

| Name                 | Summary   |
|----------------------|---|
| AWS EC2              | Virtual servers   |
| AWS EKS              | Kubernetes services in AWS  |
| AWS ECS              | Docker container service with orchestrated by AWS itself.                       |
| AWS EBS              | Block storage   |
| AWS S3               | Object storage  |
| AWS RDS              | Relational Database: e.g, mysql   |
| AWS VPC              | Virtual private cloud: provides networking isolation                            |
| AWS ELB              | Load balancer   |
| AWS CloudWatch       | Monitoring  |
| AWS CloudFormation   | Create AWS infra in a programming way   |
| AWS Lambda           | Function as a service   |
| AWS Machine Learning | Build Smart Applications Quickly and Easily                                     |
| AWS Outposts         | Run AWS infrastructure on-premises. And it's fully managed and supported by AWS |
| Reference            | Link: check AWS availability, Link: AWS products                                |

## 1.3 AWS Products - Big Data

| Name            | Summary                                    |
|-----------------|--|
| AWS Kinesis     | Real-time processing of streaming Big Data |
| AWS Redshift    | PB-scale Data Warehouse                    |
| AWS DynamoDB    | DynamoDB NoSQL DB service from AWS         |
| AWS EMR         | Managed Hadoop Framework                   |
| AWS CloudSearch | Managed Search Service. e.g, elasticsearch |

## 1.4 AWS Products - Orchestration

| Name               | Summary   |
|--------------------|---|
| AWS Step functions | Orchestration for serverless workflows                                |
| AWS SQS            | Queue Service   |
| AWS SNS            | Notification Service  |
| AWS OpsWorks       | Configuration management service. e.g, chef, puppet                   |
| AWS Beanstalk      | Enable you to easily deploy and manage your application in the cloud. |
| AWS CodeDeploy     | Automated Deployments   |
| AWS SWF            | Workflow Service for Coordinating Application Components              |
| AWS Data Pipeline  | Orchestration for Data-Driven Workflows                               |

## 1.5 AWS Products - Enterprise

| Name           | Summary  |
|----------------|--|
| AWS WorkSpaces | Desktops in the Cloud  |
| AWS WorkDocs   | Secure Enterprise Storage and Sharing Service. e.g, Office 365, google doc |
| AWS WorkMail   | Secure Email and Calendaring Service. e.g, gmail and google calendar       |

## 1.6 AWS Products - Mobile

| Name                 | Summary  |
|----------------------|--|
| AWS Cognito          | User Identity and App Data Synchronization             |
| AWS Mobile Analytics | Mobile usage data analysis                             |
| AWS AppStream        | Low Latency Application Streaming. e.g, video watching |

## 1.7 AWS Products - More

| Name               | Summary   |
|--------------------|---|
| AWS ElasticCache   | Caching service. e.g, memcache, redis.                |
| AWS Route53        | DNS   |
| AWS CloudFront     | CDN   |
| AWS CloudHSM       | Hardware Security Module                              |
| AWS CloudTrail     | User Activity and Change Tracking                     |
| AWS SES            | Send emails   |
| AWS Glacier        | Archive storage. Backend by tape                      |
| AWS CodeCommit     | Host Git repos  |
| AWS Import/Export  | Import your on-prem VMs to AWS public cloud           |
| AWS DevPay         | Online billing service                                |
| AWS AutoScaling    | Monitor your applications, then scale out or scale in |
| AWS Lightsail      | VPS. More raw than EC2                                |
| AWS Direct Connect | Dedicated Network Connection to AWS                   |
| AWS Lex            | Conversational interfaces for your applications       |

## 1.8 AWS VPC

| Name                         | Summary   |
|------------------------------|---|
| IGW(Internet gateway)        | An Internet gateway enables your instances to connect to the Internet                           |
| VPG(Virtual Private Gateway) | The Amazon VPC side of a VPN Connection   |
| NAT Gateway                  | Enable instances in a private subnet to connect to the internet or other AWS services           |
| Customer Gateway             | Your side of a VPN Connection   |
| NAT                          | NAT maps multiple private IP addresses to a single public IP address.                           |
| NAT Instance                 | EC2 instances provide Port Address Translation for non-EIP instances to access Internet via IGW |
| Router                       | Routers interconnect subnets and direct traffic between IGW, VPG, NAT instances and Subnets     |
| Subnet                       | A segment of a VPC's IP address range where you can place groups of isolated resources          |
| VPC Peering                  | A networking connection between two VPCs enable traffic by private IP                           |
| ClassicLink                  | Allow you to link an EC2-Classic instance to a VPC in your account, within the same region      |

## 1.9 AWS CLI Basic

| Name                 | Summary  |
|----------------------|--|
| Install aws cli      | <code>pip install awscli, aws help</code>      |
| Load aws cli profile | <code>aws configure</code>                     |
| List regions         | <code>aws ec2 describe-regions</code>          |
| List instances       | <code>aws ec2 describe-instances</code>        |
| AWS CLI config files | <code>~/.aws/credentials, ~/.aws/config</code> |

## 1.10 AWS EC2

| Name                  | Summary   |
|-----------------------|---|
| List images by amazon | <code>aws ec2 describe-images, aws ec2 describe-images --owners self amazon</code>    |
| Run a new instance    | <code>aws ec2 run-instances --image-id ami-c3b8d6aa --count 1 --key-name mykey</code> |

## 1.11 AWS DNS

| Name                            | Summary   |
|---------------------------------|---|
| List hosted zones               | <code>aws route53 list-hosted-zones</code>  |
| List hosted zone by name        | <code>aws route53 list-hosted-zones-by-name --dns-name my.com</code>                  |
| List DNS records by hosted zone | <code>aws route53 list-resource-record-sets --hosted-zone-id "/hostedzone/XXX"</code> |

## 1.12 More Resources

License: Code is licensed under MIT License.

<http://docs.aws.amazon.com/cli/latest/index.html>

<https://www.expeditedssl.com/aws-in-plain-english>