

CheatSheet: Amazon AWS Products

KUBERNETES

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

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1.1 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 |
| Reference | Link: check AWS availability, Link: AWS products |

1.2 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 |

1.3 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 |

1.4 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 |

1.5 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 |

1.6 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 |

1.7 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 |

1.8 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> |

1.9 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> |

1.10 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> |

1.11 More Resources

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

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