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driver by adding ECS_AVAILABLE_LOGGING_DRIVERS=["awslogs", "fluentd"] to /etc/ecs/ecs.config. Pooling has its own set of metrics that can be tracked to optimize resource utilization, efficiency and cost. Nonetheless, trustworthy and practical information and recommendations aren't easy to come by. Device Farm Device Farm Basics • Developer guide • FAQ • Pricing Device Farm is an AWS service that enables mobile app testing on real devices. For Memcached AWS provides enhanced SDKs for certain programming languages which implement auto-discovery, a feature not available in the normal memcached client libraries. Back to top ↑ EMR Tips EMR relies on many versions of Hadoop and other supporting software. AWS has a Kubernetes Quickstart developed in collaboration with Heptio. It is purely based on bidding. This is mostly useful if you want an archive of changes or the ability to back out mistakes (caution: it lacks the featureset of full version control systems like Git). Prefer using resource references instead. It's still used heavily by many. That said, new instance classes are being introduced with a KVM derived hypervisor instead, called Nitro. It's more convenient to point DNS records to load balancers, instead of pointing them to specific IPs you manage manually. List pagination: Listing contents happens at 1000 responses per request, so for buckets with many millions of objects listings will take time. After processing, the SQS message is deleted from the queue by the subscriber to avoid being re-processed. By version controlling both, it is easy to roll back to known good states. Spot fleet: You can realize even bigger cost reductions at the same time as improvements to fleet stability relative to regular Spot usage by using Spot fleet to bid on instances across instance types, availability zones, and (through multiple Spot Fleet Requests) regions. Generating clients is extremely easy, either through the AWS console or using the get-sdk API. Automation: Can you reconfigure your infrastructure to reproduce past configurations or scale up existing ones without a lot of extra manual work, or requiring knowledge that's only in someone's head? This is far from complete, but tries to emphasize services that are popular with AWS practitioners — services that specifically help with AWS, or a complementary, or tools almost anyone using AWS must learn. An alternative to invalidation that is often easier to manage, and instant, is to configure the distribution to cache with query strings and then append unique query strings with versions onto assets that are updated frequently. However, if you need consistent read performance, consider having replica clusters (at the extra cost) and swap them during update. Do create new buckets if you have different types of data with different sensitivity levels. EFS is a network filesystem many instances can connect to, but at higher cost. In general, this boils down to three broad goals for the state of your infrastructure: Visibility: Do you know the state of your infrastructure (what services you are using, and exactly how)? In addition, the public key of the certificate must be copied to the physical device. AMIs backed by EBS storage have the necessary image data loaded into the EBS volume itself and don't require an extra pull from S3, which results in EBS-backed instances coming up much faster than instance storage-backed ones. Back to top ↑ Glacier Tips You can physically ship your data to Amazon to put on Glacier on a USB or eSATA HDD. When you buy/transfer a domain, Route 53 automatically assigns four name servers to it (e.g. ns-2.awsdns-00.com). You can also track the number of times an instance of certain type got taken away (out bid) and plot that in graphite to improve your algorithm based on time of day. Version control your CloudFormation templates! In the Cloud, an application is the combination of the code written and the infrastructure it runs on. But when the table's write capacity is increased, DynamoDB may do an irreversible split of the partitions underlying the table, spreading the total table capacity evenly across the new generation of tables. The Job Definitions are submitted to Job Queue(s) for execution. However, for many applications (like your average consumer startup), deploying extensive redundancy across regions may be overkill. This table is an effort at listing these rough correspondences. Much is expected boilerplate, but it does contain important notes and restrictions on each service. If you have substantial needs in these areas, assistance is a good idea. The relay should have a forwarding rule to send all emails to SES). KMS keys have a key policy that must grant access to something to manage the key. AMIs are per region, so you must look up AMIs in your region, or copy your AMIs between regions with the AMI Copy feature. When using DynamoDB as a trigger for your Lambda functions, this error may occur: "PROBLEM: Internal Lambda error. S3 and CloudFront: S3 is tightly integrated with the CloudFront CDN. Kinesis Streams are not included in the free tier. If you're not careful to alter cloud-init settings that correspond to the system service (e.g. sshd, etc.) you've customized, you may find that your changes are no longer in effect after booting your new AMI for the first time, as cloud-init has overwritten them. This should be part of your automatic configuration for every server. They are more expensive than virtual instances but can be preferable for performance, compliance, financial modeling, or licensing reasons. Back to top ↑ Storage Durability, Availability, and Price As an illustration of comparative features and price, the table below gives S3 Standard, RRS, IA, in comparison with Glacier, EBS, EFS, and EC2 d2.xlarge instance store using Virginia region as of Sept 2017. [KMS keys are region specific — they are stored and can only be used in the region in which they are created. Back to top ↑ EC2 Gotchas and Limitations]Never use ssh passwords. T2 instances accrue CPU credits when they are idle, and use CPU credits when they are active. This Lambda ECS Worker Pattern shows use of Lambda in a workflow where data from S3 is picked up by the Lambda, pushed to a queue, then sent to ECS for more processing. Get notified up to two minutes before price-triggered shutdown by polling your Spot instances' metadata, or by watching for the termination CloudWatch event. Redshift first copies the data to disk and then to the new table. Either way, S3 has had a very good record of durability.) Note this is much higher durability than EBS! S3 pricing depends on storage, requests, and transfer. AWS offers two different AMIs that are targeted to GPU applications. One can provision IOPS (that is, pay for a specific level of I/O operations per second) to ensure a particular level of performance for a disk. If you don't delete it by accident, you can count on S3 not losing your data. SNS topics can be used to power webhooks with backoff support to subscribers over HTTPS. You shouldn't be relying on AWS to solve your problems often. Consider using Reserved Instances when you can predict your longer-term compute needs and need a stronger guarantee of compute availability and continuity than the (typically cheaper) Spot market can provide. Don't underestimate its power. Back to top ↑ EKS Gotchas and Limitations Pods and Service configurations can rapidly consume IP addresses inside a VPC. A compound sort key is made up of all columns listed in the sort key definition. Route 53 also offers to automatically create a hosted zone for DNS management, but you are not required to do your DNS management in the same account or even in Route 53; you just need to create an NS record pointing to the servers assigned to your domain in Route 53. If the market rate exceeds the bid, your instance may be terminated. EFS has two performance modes that can only be set when a file system is created. See the market landscape. To use it effectively typically involved building additional tooling, including converting it to YAML, but now this is supported directly. Larger customers also get access to AWS Enterprise support, with dedicated technical account managers (TAMs) and shorter response time SLAs. There is definitely some controversy about how useful the paid support is. If you have a security requirement to lockdown outbound traffic from your VPC you may want to use DNS filtering to control outbound traffic to other services. Lambda cold start performance has improved significantly over the 2018-2019 timeframe and is now typically in the range of 200-500 ms for a simple function depending on the language runtime. That said, Aurora may not be that much faster than MySQL for certain workloads. You need to look find them in the raw .json.gz files that CloudTrail saves in S3. The official page is here and there is an FAQ. This is particularly useful when events have to be fanned out to multiple, isolated systems. One application consuming credits faster than it can accumulate might be offset by another application that just stores files on EFS and rarely accesses them. But don't do this. Back to top ↑ SNS Alternatives and Lock-In Popular alternatives to SNS are Kafka, Notification Hubs on Azure, and Pub/Sub on Google Cloud. Bypass this by saying in the body of your initial request: "I acknowledge at the moment, there is no method to add or remove a name from a certificate. You can have many, simultaneous, executions, but be aware of lambda throttling limits. An application that efficiently uses Kinesis Streams will scale the number of shards up and down based on the required streaming capacity. Clients are also called devices (or things) and include a wide variety of device types. Use log management services. Be sure to set up a way to view and manage logs externally from servers. But in some situations, you do need to manage and fix IP addresses of EC2 instances, for example if a customer needs a fixed IP. Numerous distributed systems rely on time for synchronization and coordination and UTC provides the universal reference plane: it is not subject to daylight savings changes and adjustments in local time. It's also helpful if you wish to test deployments on local developer machines running the same standard Linux distribution (a practice that's getting more common with Docker, too. Ttk is an open-source API gateway implemented in Go and available in the cloud, on-premises or hybrid. They also support SSL termination, which is very convenient. Use to peer your colocation, corporate, or physical datacenter network with your VPC(s). It is designed to be highly available and durable and each EFS file system object is redundantly stored across multiple availability zones. Note that some functions can be executed only on the lead node. OpsWorks OpsWorks Basics • Homepage • Documentation • FAQ • Pricing: Stacks, Chef Automate, Puppet Enterprise OpsWorks is a configuration management service that uses Chef or Puppet configuration management. This is most common with clients using back-end APIs (since web browsers typically cache for a limited period). For many situations such as testing or staging resources, you may not need your instances on 24/7, and you won't need to pay EC2 running costs when they are suspended. That would help give an understanding of the minimum cpu, memory, disk required. NLBs have most extensive routing options. Credits are earned at a rate of 50 KIB/s per GiB of storage and consumed in bursts during reading/writing files or metadata. Storage cannot be expanded for existing databases. aws-lambda-list is a list of "hopefully useful AWS lambdas and lambda-related resources". Often there are other ways to accomplish the same goals, such as local scripts (Boto, Bash, Ansible, etc.) you manage yourself that build infrastructure, or Docker-based solutions (Convex, etc.). Throughput is of course highest from within AWS to S3, and between EC2 instances and S3 buckets that are in the same region. Support for device security via certificate processing is a key differentiator in this space. When setting up a service with autoscaling, consider baking more into your AMIs and backing them with the EBS storage option. Back to top ↑ RDS PostgreSQL Gotchas and Limitations No supersuper privileges.] Standard Queues can deliver duplicate messages regardless of the visibility window. Some of these charge a percentage of your bill, which may be expensive. Instance user-data is limited to 16 KB.] CloudFormation itself has no additional charge; you pay for the underlying resources. It reduces the management burden of setting up and maintaining these services yourself. A big advantage of this approach is that it's easy to test and validate a container locally without worrying about some difference between your computer and the servers you deploy on. You can replicate to non-RDS instances of MySQL, but replication to these instances will break during AZ failovers. These files will need to be configured to speak with the K8s Master with a certificate and URL. Pooling implies creating and maintaining Spot instances so that they do not get terminated after use. An SNS message is pushed to all subscribers of the topic at the same time, and is not available for deletion at the topic. But be careful not to cache credentials for too long, as they expire. These settings can be changed by adding ECS_ENGINE_TASK_CLEANUP_WAIT_DURATION=10m and ECS_IMAGE_CLEANUP_INTERVAL=10m to /etc/ecs/ecs.config. In August 2017, AWS added AWS Config rules to ensure your S3 buckets are secure. Major third-party BI tools support Redshift integration (see Quora). Destinations for fan-out data in the sample include IoT, SQS and more. (Remember that this table is imperfect as in almost every case there are subtle differences of features!) Service AWS Google Cloud Google Internal Microsoft Azure Other providers Open source "build your own" Openstack Virtual server EC2 Compute Engine (GCE) Virtual Machine DigitalOcean OpenStack Nova PaaS Elastic Beanstalk App Engine App Engine Web Apps Heroku, AppFog, OpenShift, Meteor, AppScale, Cloud Foundry, Convex Serverless, microservices Lambda, API Gateway Functions Function Apps PubNub Blocks, Auth0, Weblask Kong, Ttk Qmling Container, cluster manager ECS, EKS, Fargate Container Engine, Kubernetes Borg or Omega Container Service Kubernetes, Mesos, Aurora Zun Object storage S3 Cloud Storage GFS Storage Account DigitalOcean Spaces Swift, HDFS, Minio Swift Block storage EBS Persistent Disk Storage Account DigitalOcean Volumes NFS Cinder SQL database RDS Cloud SQL SQL Database MySQL PostgreSQL Trove (stores NoSQL as well) Sharded RDBMS Cloud Spanner F1, Spanner Azure Database for PostgreSQL - Hyperscale (Citus) Crate.io, CockroachDB Bigtable Cloud Bigtable Bigtable HBase Key-value store, column store DynamoDB Cloud Database Megastore Tables, DocumentDB Cassandra, CouchDB, RethinkDB, Redis Memory cache ElasticCache App Engine Memcache Redis Cache Memcached, Redis Search CloudSearch, Elasticsearch (managed) Search Algolia, QBox, Elastic Cloud Elasticsearch, Solr Data warehouse Redshift BigQuery Dremel SQL Data Warehouse Oracle, IBM, SAP, HP, many others Greenplum Business intelligence QuickSight Data Studio 360 Power BI Tableau Lock manager DynamoDB (weak) Chubby Lease blobs in Storage Account ZooKeeper, Etcd, Consul Message broker SQS, SNS, IoT Pub/Sub PubSub2 Service Bus RabbitMQ, Kafka, OMQ Streaming, distributed log Kinesis Dataflow PubSub2 Event Hubs Kafka Streams, Apex, Flink, Spark Streaming, Storm MapReduce EMR Dataproc MapReduce HDInsight, DataLake Analytics Qubole Hadoop Monitoring CloudWatch Stackdriver Monitoring Borgmon Monitor Prometheus(?) Tracing X-Ray Stackdriver Trace Monitor (Application Insights) DataDog, New Relic, Epsagon Zipkin, Jaeger, Appdash Metric management Borgmon, TSDB Application Insights Graphite, InfluxDB, OpenTSDB, Grafana, Riemann, Prometheus CDN CloudFront Cloud CDN CDN Akamai, Fastly, Cloudflare, Limelight Networks Apache Traffic Server Load balancer CLB/ALB Load Balancing GFE Load Balancer, Application Gateway nginx, HAProxy, Apache Traffic Server DNS Route53 DNS DNS bind Email SES Sendgrid, Mandrill, Postmark Git hosting CodeCommit Cloud Source Repositories Visual Studio Team Services GitHub, BitBucket GitLab User authentication Cognito Firebase Authentication Azure Active Directory oauth.io Mobile app analytics Mobile Analytics Firebase Analytics HockeyApp Mixpanel Mobile app testing Device Farm Firebase Test Lab Xamarin Test Cloud BrowserStack, Sauce Labs, Testdroid Managing SSL/TLS certificates Certificate Manager Let's Encrypt, Comodo, Symantec, GlobalSign Automatic speech recognition and natural language understanding Transcribe (ASR), Lex (NLU) Cloud Speech API, Natural Language API Cognitive services AYLIEN Text Analysis API, Ambiverse Natural Language Understanding API Stanford's Core NLP Suite, Apache OpenNLP, Apache UIMA, spaCy Text-to-speech engine in the cloud Polly Nucleus, Vocalware, IBM Mimic, eSpeak, MaryTTS Image recognition Rekognition Vision API Cognitive services IBM Watson, Clarifai TensorFlow, OpenCV OCR (Text recognition) Textract (documents), Rekognition (photographs) Cloud Vision API Computer Vision API Tesseract Language Translation Translate Translator Text API Apertium File Share and Sync WorkDocs Google Docs OneDrive Dropbox, Box, Citrix File Share ownCloud Machine Learning SageMaker, DeepLens, ML ML Engine, Auto ML ML Studio Watson ML Data Loss Prevention Macie Cloud Data Loss Prevention Azure Information Protection Please help fill this table in. S3 as a filesystem: In general S3's APIs have inherent limitations that make S3 hard to use directly as a POSIX-style filesystem while still preserving S3's own object format. You can use them for CLBs/ALBs or any other resource where AWS supports it. Load Balancers Load Balancer Basics AWS has 3 load balancing products - "Classic Load Balancers" (CLBs), "Application Load Balancers" (ALBs), and "Network Load Balancers" (NLB). Many services are only eligible for the free tier for the first twelve months that an account exists, but other services offer a free usage tier indefinitely. Google Cloud's list of customers is large as well, and includes a few mainstream sites, such as Snapchat, Best Buy, Domino's, and Sony Music. There will be skipped intervals. See the documentation for a complete list of access key prefixes. GCP arrived later to market than AWS, but has vast resources and is now used widely by many companies, including a few large ones. Google has only previewed, but not released their IoT services Android Things and Weave. The authors and contributors do not assume and hereby disclaim any liability to any party for any loss, damage, or disruption caused by errors or omissions in the information contained in, associated with, or linked from this content, whether such errors or omissions result from negligence, accident, or any other cause. It is a service that is deployed in a single region but comes with a global endpoint that is served from AWS edge locations (similar to a CloudFront distribution). It will also save you a lot of headache debugging elusive timezone issues and provide coherent timeline of events in your logging and audit systems. But using the Console is a highly manual process, and often works against automation or flexibility. WAF WAF Basics • Homepage • Documentation • FAQ • Pricing WAF (Web Application Firewall) is used in conjunction with the CloudFront and ALB services to inspect and block/allow web requests based on user-configurable conditions. But once you know your costs will be growing in excess of an engineer's salary, serious investment is often worthwhile. New feature Drift Detection can be used to detect outside changes made to stack. The compendium of frameworks included can lead to long instance startup times and difficult-to-reason-about environments. Check out docker-ice for a Dockerized version that eases installation. Glacier Glacier Basics • Homepage • Developer guide • FAQ • Pricing Glacier is a lower-cost alternative to S3 when data is infrequently accessed, such as for archival purposes. This means that iterating a loop using Lambda is limited to an iteration count of around 3000 before needing to continue as a new execution. AWS's own documentation is a great but sprawling resource few have time to read fully, and it doesn't include anything but official facts, so omits experiences of engineers. Think before you use the console: The AWS Console is convenient, but also the enemy of automation, reproducibility, and team communication. Chef runs can be scheduled on nodes using the chef-client cookbook. OpsWorks for Chef Automate and OpsWorks for Puppet Enterprise are strictly designed for configuration management, and do not provision infrastructure outside the Chef Server/Puppet Master that is created in our account. The uptime of IAM's API has historically been lower than that of the instance metadata API. EC2 vs. If time has already drifted substantially (generally > 1000 seconds), remember NTP won't shift it back, so you may need to remediate manually (for example, like this on Ubuntu). EFS EFS Basics • Homepage • User guide • FAQ • Pricing EFS is Amazon's network filesystem. A typical use case of this ACL is used in conjunction with the requester pays functionality of S3. The records in a Stream are ordered by this number, so any time-ordering is preserved. For example, your web frontend might use 3010, your backend services 3020 and 3021, and your Postgres instances the usual 5432. APIs and SDKs SDKs for using AWS APIs are available in most major languages, with Go, iOS, Java, JavaScript, Python, Ruby, and PHP being most heavily used. A global secondary index together with down sampling timestamps can be a possible solution as explained here. These are generally not dependent on any particular cloud infrastructure, and work with any variety of Linux (or in many cases, a variety of operating systems). Bandwidth from EC2 depends on instance type. Back to top ↑ CloudFront Gotchas and Limitations [If using S3 as a backing store, remember that the endpoints for website hosting and for general S3 are different. Machine Learning: Machine learning model training and classification Lex: Automatic speech recognition (ASR) and natural language understanding (NLU) Polly: Text-to-speech engine in the cloud Rekognition: Service for image recognition Data Pipeline: Managed ETL service SWF: Managed state tracker for distributed polyglot job workflow Lumberyard: 3D game engine Mobile/app development: SNS: Manage app push notifications and other end-user notifications Cognito: User authentication via Facebook, Twitter, etc. See the CloudFront section for more information, as well as S3 transfer acceleration. Use a restrictive stack policy! Without one, you can inadvertently delete live production resources, probably causing a severe outage. When using a CLB as an HTTP load balancer, it's possible to get the client's IP address from this. Especially in consulting companies or when working in key tech roles in large non-tech companies, certifications are important credentials. The Compute Environments are EC2 clusters that provide the runtime for the batch workloads to execute in. Virginia) region.

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