

Resources

AWS Tips by Rich Adams

AWS Open Guide

Find the detailed version of this roadmap along with other similar roadmaps

roadmap.sh

AWS

Development

- ☐ Do not store application state on servers
- ☐ Store extra information in your logs
- ☐ If you need to interact with AWS, use the official SDK
- ☐ Have tools to view application logs

Billing

- ☐ Set up granular billing alerts

Security

- ☐ Prefer EC2 roles over app level IAM account
- ☐ Assign permissions to groups, not users
- ☐ Set up automated security auditing
- ☐ Use CloudTrail to keep an audit log

ELB

- ☐ Terminate SSL on the load balancer
- ☐ Pre-warm your ELBs if you're expecting heavy traffic

RDS

- ☐ Set up event subscriptions for failover

CloudWatch

- ☐ Use CLI tools
- ☐ Use the free metrics
- ☐ Use the custom metrics
- ☐ Use detailed monitoring

IAM

- ☐ Use IAM roles
- ☐ Use multiple API keys for different purposes
- ☐ Use multi-factor auth for IAM users

Miscellaneous

- ☐ Scale horizontally
- ☐ Your application may require changes to work on AWS
- ☐ Always be redundant across availability zones (AZs)
- ☐ Be aware of AWS service limits before you deploy
- ☐ Decide on a naming convention early, and stick to it
- ☐ Decide on a key-management strategy from the start
- ☐ Make sure AWS is right for your workload

Operations

- ☐ Disable SSH access to all servers (Optional)
- ☐ Care about services as a whole instead of servers
- ☐ Don't give servers static/elastic IPs
- ☐ Automate everything
- ☐ Everyone gets an IAM account. Never login to the master
- ☐ Get your alerts to become notifications

S3

- ☐ Use "-" instead of "." in bucket names for SSL
- ☐ Avoid filesystem mounts (FUSE, etc)
- ☐ Having CloudFront in front of S3 is optional (but it can help)
- ☐ Use random strings at the start of your keys

EC2 / VPC

- ☐ Assign tags to everything
- ☐ Use termination protection for non-auto-scaling instances
- ☐ Use a VPC
- ☐ Use reserved instances to save big \$\$\$
- ☐ Lock down your security groups
- ☐ Don't keep unassociated Elastic IPs

Elastichache

- ☐ Use configuration endpoints over individual endpoints

Autoscaling

- ☐ Scale down on INSUFFICIENT_DATA as well as ALARM
- ☐ Use ELB health check instead of EC2 health checks
- ☐ Only use the availability zones (AZs) your ELB is configured for
- ☐ Avoid multiple scaling triggers on the same group

Route53

- ☐ Use ALIAS records

Elastic MapReduce

- ☐ Specify a directory on S3 for Hive results

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Backend Roadmap

DevOps Roadmap