

Well-Architected Bootcamp 2020 Taipei Operational Excellence Pillar

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The operational excellence pillar focuses on running and monitoring systems to deliver business value, and continually improving processes and procedures. Key topics include managing and automating changes, responding to events, and defining standards to successfully manage daily operations.



Resources:

Website:

https://aws.amazon.com/architecture/well-architected/

Whitepaper



Operational Excellence

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erational Excellence whitepaper PDF | Kindle



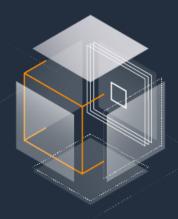
Resources:

HTML Version of Performance Pillar:

https://wa.aws.amazon.com/wat.pillar.operationalExcellence.en.html



Design Principal:



Perform operations as code

Annotated documentation

Make frequent, small, reversible changes

Refine operations procedures frequently

Anticipate failure

Learn from all operational failure



Definitions:



Prepare

Operate



Prepare





Prepare

- Operational priorities
 - Understand your workload
 - Role
 - Business goal
 - External regulatory and compliance requirement
- Design for operations
 - How it will be deployed, updated, and operated?
 - Defect reduction and fixes(quick and safe)
 - Log, monitor, metrics
- Operational readiness
 - Checklists
 - Runbooks
 - process

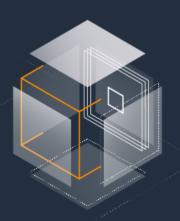


Prepare

- Operational priorities
 - AWS Support : Business Support/Enterprise Support
 - Trusted Advisor
 - Cloud Compliance: (https://aws.amazon.com/compliance/programs/)
 - Well Architected Framework
- Design for operations
 - CloudWatch
 - CloudFormation
 - Developer Tools
 - AWS X-Ray
- Operational readiness
 - Lambda
 - AWS Config
 - AWS Systems Manager



Definitions:



Prepare

Operate



Operate

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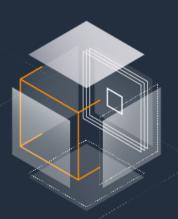


Operate |

- Understanding operational Health
 - CloudWatch, CloudWatch Logs
 - ES
 - Personal Health Dashboard
 - Service Health Dashboard
- Responding to Events
 - AWS Lambda
 - CloudWatch, CloudWatch Events
 - SNS
 - Auto Scaling
 - Systems Manager



Definitions:



Prepare

Operate



Evolve

Learni

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- Learning from Experience
 - ES
 - QuickSight
 - Athena
 - S3
 - CloudWatch
- Sharing learning
 - IAM
 - SNS
 - CodeCommit
 - Lambda
 - CloudFormation
 - AMIs



Q: What best practices for cloud operations are you using?

Operational Checklist to Evaluate Readiness

Not Evaluating Readiness

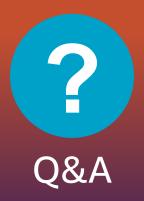
Proactive Plan for Events

No Active Plan for Events

Security Checklist to Evaluate Security Readiness

Not Evaluating Security Readiness







Thank you!

