MICROSOFT AZURE WELL-ARCHITECTED BY BASEFARM

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AGENDA

- Why is being well-architected important?

- Overview: Microsoft Azure Well-Architected

- Overcoming workload quality inhibitors

- Basefarm Offerings and next steps

IT'S REAL. IT'S TANGIBLE. IT HAPPENS.

The **average total cost per breach** has increased from $3.54 million in 2006 to **$8.19 million in 2019.**[1]

Companies with incident response teams with testing of IR plans —**saved over $1.2 million.**[2]

Customers expect their **cloud spend** to further **increase by 47%** in the next 12 months.[2]

Encryption reduced breach costs by an average of $360,000.[3]

1 What Is The Cost Of A Data Breach? By Marty Puranik. Forbes. Dec 2019
2 Flexera 2020 State of the Cloud Report
3 The Cost of a Data Breach Report, IBM Security, 2019. Conducted by Ponemon Institute LLC.
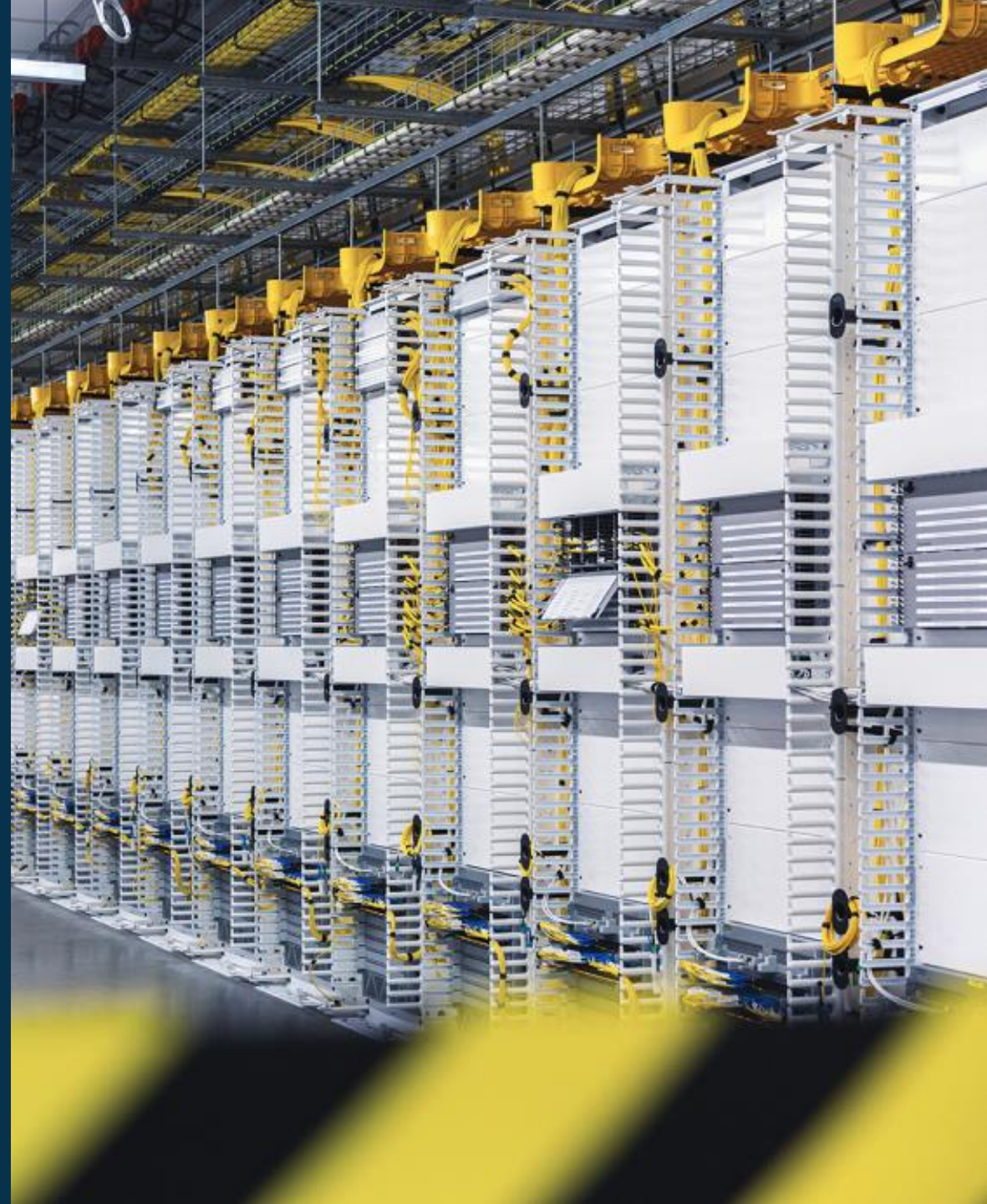
THE VALUE OF RUNNING WELL-ARCHITECTED CLOUD WORKLOADS

☑ Manage budget
☑ Improve workloads security
☑ Increase incident response
☑ Streamline internal processes
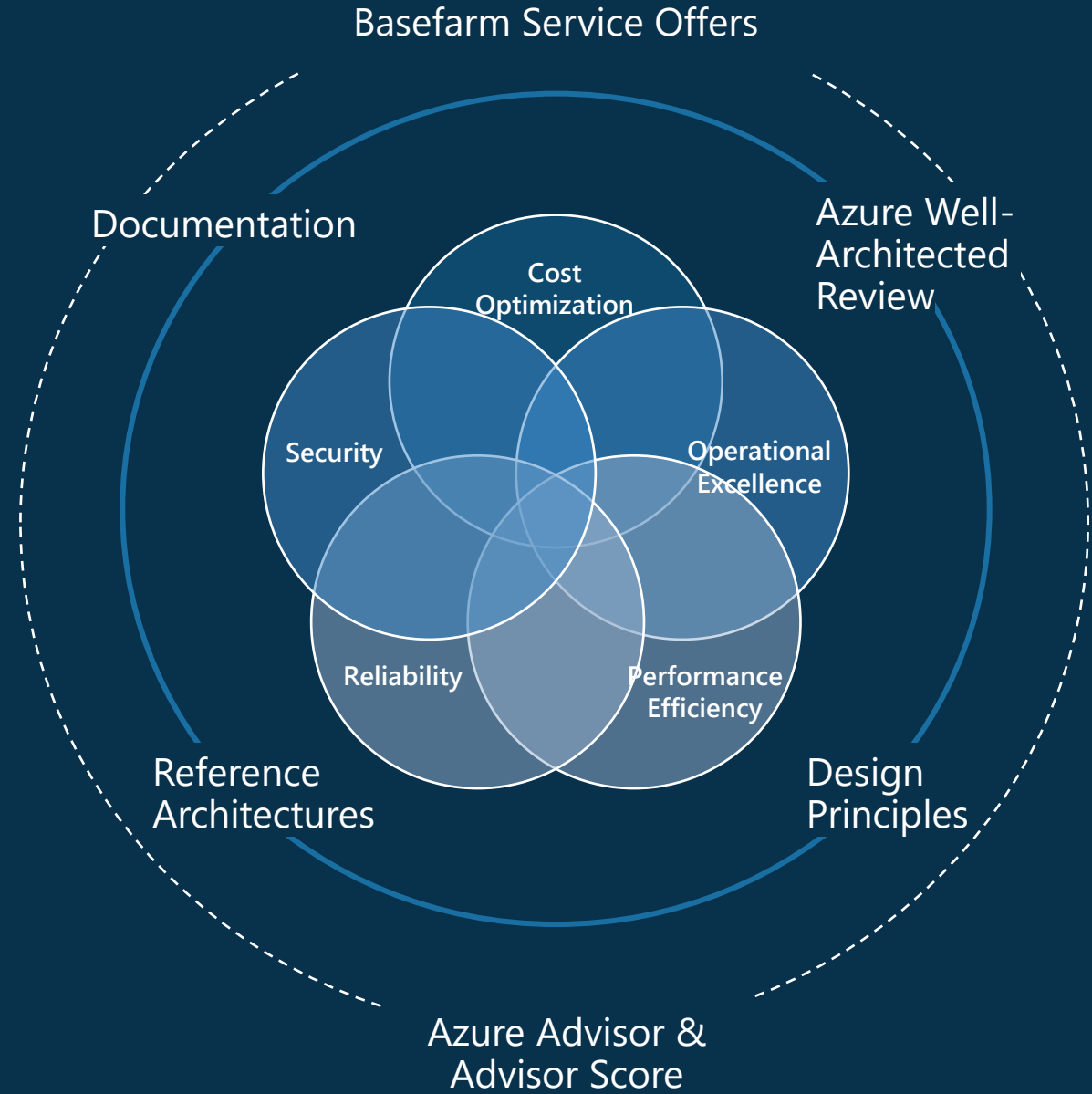☑ Avoid costly mistakes
☑ Efficient performance

Expenses, losses

Trust

Damages

What Is The Cost Of A Data Breach? By Marty Puranik. Forbes. Dec 2019

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AZURE WELL-ARCHITECTED FRAMEWORK

Architecture guidance and best practices, created for architects, developers and solution owners, to improve the quality of their workloads, based on 5 aligned and connected pillars

| Cost Optimization | Operational Excellence | Performance Efficiency | Reliability | Security |

https://aka.ms/wellarchitected/framework

OVERCOMING WORKLOAD QUALITY INHIBITORS

Cost Optimization

- No cost and usage monitoring
- Unclear on underused or orphaned resources
- Lack of structure billing management
- Budget reductions due to lack of support for cloud adoption by LT/board

Operational Excellence

- Lack of rapid issue identification
- No deployment automation
- Absence of communication mechanisms and dashboards
- Unclear expectations and business outcomes
- No visibility on root cause for events

Performance Efficiency

- No monitoring new services
- No monitoring current workloads health
- No design for scaling
- Lack of rigor and guidance for technology and architecture selection

Reliability

- Unclear on resiliency features/capabilities for better architecture design
- Lack of data back up practices
- No monitoring current workloads health
- No resiliency testing
- No support for disaster recovery

Security

- No access control mechanism (authentication)
- No security threat detection mechanism
- Lack of security thread response plan
- No encryption process

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BEST PRACTICES TO DRIVE WORKLOAD QUALITY

Cost Optimization

✓ Azure Hybrid Benefit
✓ Reserve Instances
✓ Shutdown
✓ Resize
✓ Move to PAAS

Operational Excellence

✓ DevOps
✓ Deployment
✓ Monitor
✓ Processes and cadence

Performance Efficiency

✓ Design for scaling
✓ Monitor performance

Reliability

✓ Define requirements
✓ Test with simulations and forced failovers
✓ Deploy consistently
✓ Monitor health
✓ Respond to failure and disaster

Security

✓ Identity and access management
✓ Infra protection
✓ App security
✓ Data encryption and sovereignty
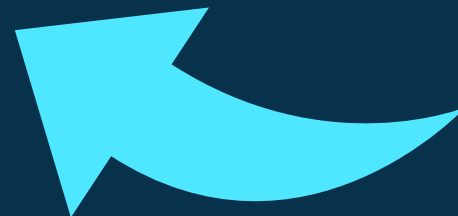✓ Security operations

https://aka.ms/wellarchitected/framework

WHEN TO THINK ABOUT GETTING WELL-ARCHITECTED?

- ☑ Leverage Azure Advisor Score to identify optimization opportunities
- ☑ Understand changes needed or incidents occurred
- ☑ Review Well-Architecture Framework
- ☑ Consider architecture design trade offs to achieve business goals
- ☑ Define and implement recommendations
- ☑ Establish a regular cadence for workload optimization

Design & deploy **new** workloads

Optimize **existing** workloads

- ☑ Align workload architecture to business priorities
- ☑ Review Well-Architecture Framework
- ☑ Leverage the Azure Well-Architected Review to assess workload architecture design
- ☑ Consider architecture design trade offs to achieve business goals
- ☑ Build, deploy and manage workloads on Azure

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THANK YOU!

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