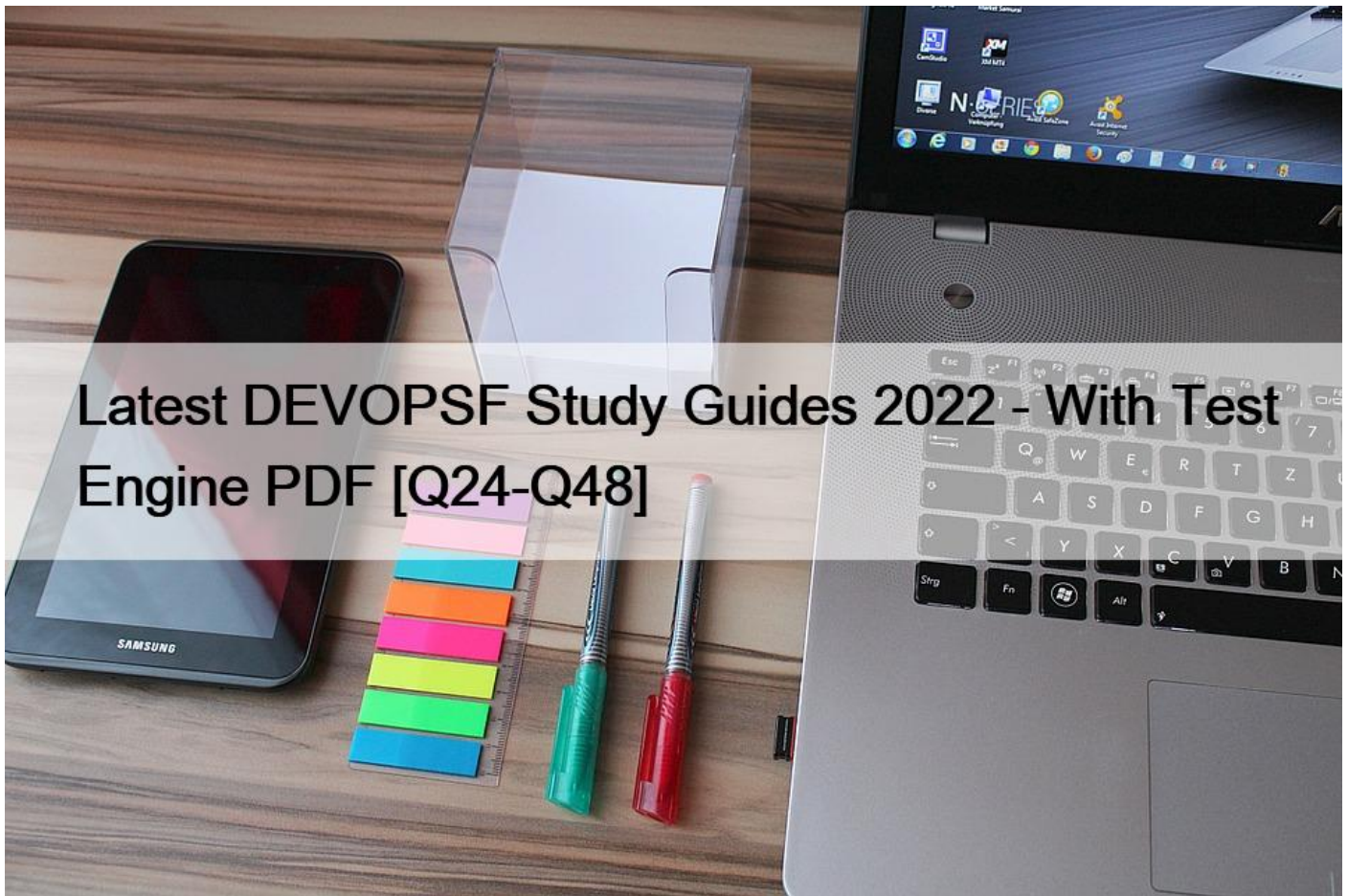


## Latest DEVOPSF Study Guides 2022 - With Test Engine PDF [Q24-Q48]



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### EXIN DEVOPSF Exam Syllabus Topics:

TopicDetailsTopic 1- Identify conditions that make adoption of DevOps interesting for the business- Identify reducing technical debt as a reason for using DevOpsTopic 2- Describe the developments in virtualization and cloud computing that enable DevOps- Clarify how DevOps facilitates more frequent releasesTopic 3- Identify ways to deal with bottlenecks- Identify eliminating fragility as a reason for using DevOpsTopic 4- Clarify how DevOps focuses more on adding value to the business - Clarify how a value stream mapping (VSM) may help optimizing processes in the businessTopic 5- Clarify how DevOps deals with solving incidents and defects differently- Outline how DevOps is an expansion of Lean and Agile thinkingTopic 6 - Clarify the risk of commercial off-the-shelfsoftware in strategic business lines- Explain how DevOps developed from a historical perspectiveTopic 7- Identify solutions for working with commercial off-the-shelfsoftware when there is no other option- Describe the historical developments from Waterfall to Scrum to AgileTopic 8- Identify the challenges when implementing a deployment pipeline- Identify decreasing time to market as a reason for using DevOpsTopic 9- Characterize the need for a flexible mindset to change and innovation- Clarify how DevOps can yield a greater return onIT than other practices

**NO.24** A company decides to do canary releases for some new functionality.

What is a description of a canary release?

- \* Releasing to a limited number of users, before releasing it to all users
- \* Switching users from interacting with one release to the next within seconds
- \* Test business hypotheses by having half of the users switch to a new release

**NO.25** An IT architecture is characterized as monolithic and rigidly bound.

What difficulty with adopting DevOps practices can be expected?

- \* Clearly defining the boundaries of the IT systems
- \* Defining areas of responsibility for each DevOps team
- \* Maintaining the increasingly complex architecture

**NO.26** The most valuable information of a value stream map is taken from three key metrics.

What is one of these three key metrics?

- \* Measured service
- \* Percentage complete
- \* Process time
- \* Server time

**NO.27** Even more than Agile or Scrum, DevOps encourages continuous delivery of new functionality and continuous feedback from the customer.

What does this achieve?

- \* It increases the team's responsibility
- \* It improves customer relations
- \* It yields a greater return on IT

**NO.28** Why is reducing the fragility of a business system difficult?

- \* Because doing so will disrupt the current product and service timelines
- \* Because doing so will increase the number of incidents that occur temporarily
- \* Because it is difficult to deliberately introduce chaos into the Production environment
- \* Because of the high risks of business disruption when integrating large numbers of systems

Explanation/Reference: <https://books.google.com.pk/books?id=gBSGDwAAQBAJ&pg=PA19&lpg=PA19&dq=devops>

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**NO.29** Your team works in three-week iterations and cannot get all the work for a batch done within the iteration.

They frequently encounter bottlenecks.

What is the best reaction of the team after they identify a bottleneck?

- \* Discuss with the Product Owner which work can be shifted to another iteration

- \* Extend the length of this particular iteration to four weeks to remove the bottleneck
- \* Trust that they will solve the bottleneck in the next batch or iteration

**NO.30** Why should everything be stored in a version control system?

- \* It allows Developers to re-use already written code
- \* It gives both Development and Operations access
- \* It is the basis for automation of the deployment pipeline
- \* It prevents deliberate introduction of chaos in the system

**NO.31** What helps a DevOps team to successfully develop and deliver working software?

- \* Allowing your DevOps teams to develop their own specific mission
- \* Forming a DevOps team for short period of time during a project
- \* Identifying, fixing and learning from errors only after your project ended
- \* Writing code for software to have built-in quality as a main goal

**NO.32** What is the DevOps practice called that maximizes detection of common errors?

- \* Shift Defect
- \* Shift Down
- \* Shift Left
- \* Shift Right
- \* Shift Up

Explanation/Reference: <https://books.google.com.pk/books?id=gBSGDwAAQBAJ&pg=PA70&lpg=PA70&dq=devops>

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**NO.33** When value stream mapping, which metric is essential to measure for each step?

- \* Cost of delay
- \* Delay divided by duration
- \* Key group comparison
- \* Percentage complete and accurate
- \* Work-in-Progress (WiP)

**NO.34** A commonly understood definition of the term *time-to-market* is:

The time between business idea and the possibility of a customer purchase.

Which two DevOps practices may help reduce the time-to-market for a company? (Choose two.)

- \* Continuous delivery and deployment
- \* Continuous identification and reduction of losses
- \* Extreme programming
- \* Pair programming
- \* Visualizing the Work-in-Progress (WiP)

**NO.35** Why is reducing the fragility of a business system difficult?

- \* Because doing so will disrupt the current product and service timelines
- \* Because doing so will increase the number of incidents that occur temporarily
- \* Because it is difficult to deliberately introduce chaos into the Production environment

- \* Because of the high risks of business disruption when integrating large numbers of systems

**NO.36** Configuration management can prevent unauthorized changes to Production.

How should the system be configured to prevent unauthorized changes to Production?

- \* Admin passwords should be regularly and automatically changed without notification to all IT staff
- \* Chaos and disruptions should be deliberately and automatically introduced into production
- \* Only a single source should be used to give out information on the status of the system
- \* Value stream mapping should be used to identify security leaks and unauthorized persons

**NO.37** Your team uses continuous delivery.

What are two reasons to keep the batch size small? (Choose two.)

- \* So that each team member can get their own batch
- \* So that root causes of problems can be identified and resolved quickly
- \* So that the product owner can report back to the customer
- \* So that the product owner has a good idea of what is delivered when
- \* So that there is room for Kaizen blitzes in between work

**NO.38** What should be taken into account most when prioritizing tasks according to DevOps practices?

- \* How long the task has waited
- \* How much the team likes the task
- \* How much value the task adds
- \* How much work the task takes

**NO.39** A team stores not only source code, but many other things related to the IT system, such as tests, scripts, artifacts, libraries and many other things.

Which DevOps principle has this team implemented?

- \* Continuous delivery
- \* Deployment pipeline
- \* Version control

**NO.40** For what type of business is DevOps the least suitable?

- \* Companies without in-house software development
- \* Small companies or start-ups
- \* Companies with unacceptable IT-related risks for the core business

**NO.41** Which architecture is a cause of the problems with DevOps that a microservice architecture solves?

- \* Intel x86 architecture
- \* Mainframe architecture
- \* Monolithic architecture
- \* Serverless architecture

**NO.42** DevOps states that release should be a routine.

Which DevOps principle is necessary for daily releases?

- \* Automation of the deployment pipeline
- \* Continuous improvement of processes
- \* Solving incidents immediately

\* Visualization of the Work-in-Progress

Explanation/Reference: <https://dzone.com/articles/release-frequency-a-need-for-speed>

**NO.43** What is a benefit of the way the Definition of Done is defined in DevOps?

- \* The team focuses less on the &#8220;what&#8221; and more on &#8220;when&#8221;
- \* The team focuses less on the &#8220;what and more&#8221; on &#8220;where&#8221;
- \* The team focuses less on the &#8220;what&#8221; and more on &#8220;who&#8221;
- \* The team focuses less on the &#8220;what&#8221; and more on &#8220;why&#8221;

**NO.44** DevOps states that release should be a routine.

Which DevOps principle is necessary for daily releases?

- \* Automation of the deployment pipeline
- \* Continuous improvement of processes
- \* Solving incidents immediately
- \* Visualization of the Work-in-Progress

**NO.45** What is the DevOps practice called that maximizes detection of common errors?

- \* Shift Defect
- \* Shift Down
- \* Shift Left
- \* Shift Right
- \* Shift Up

**NO.46** Why does Operations benefit most from improved configuration management?

- \* It allows Development to take over Operations tasks if they have too much work
- \* It allows Operations to automate configuration management using scripts
- \* It allows Operations to be involved in earlier stages of the development
- \* It allows Operations to respond to incidents more quickly than without

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