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9A0-397

Adobe Experience Manager Dev/Ops Engineer

Version 1.0

Exam A

QUESTION 1

Multiple OSGi configurations exist in multiple locations within the Java Content Repository (JCR).

In which order do these configurations apply?

A. configurations with the prod runmode and then /etc/config./apps
B. /configurations with the most matching runmodes and then /apps/confisg, /jcr/configs
C. configurations with the prod runmode and then /libs/configs, /apps/configs
D. /apps./libs and then configurations with the most matching runmodes

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2 When configuring the dispatcher module, what setting is required to make sure the dispatcher is used?

A. SetHandler dispatcher-handler
B. SetHandler dispatcher-module
C. SetModule module-dispatcherD. SetModule handler-dispatcher

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3 Which three regular maintenance tasks should be executed and scheduled regularly?
(Choose three.)

A. Audit log purge
B. User cache purge
C. Workflow purgeD. Version purging

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4 A DevOps engineer needs to install bundles via content packages for a continuous deployment setup.

In which two ways should this be configured? (Choose two.)

A. The JCR installer will only update the bundle if the filename changes; always use a unique bundle version in the filename
B. For an out-of-the-box installation, bundles can be installed from /apps./libs and /etc
C. To install bundles for a certain runmode only, the folder name can be used to limit environments where a bundle is installed
D. Before the deployment of the new bundle, remove the old bundle from JCR as first deployment step to make sure the bundle is updated
E. Whenever the JCR installer detects a change of a bundle file, it will install it to the Felix runtime

F. The JCR installer detects bundle changes at arbitrary depths in the JCR tree and automatically deploys those changes bundles

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
A DevOps engineer needs to install a package to a remote AEM staging system using continuous deployment. Which two tools and methods should the DevOps engineer use? (Choose two.)

A. curl based script with package manager REST API
B. make file with aem-deploy plugin
C. content package maven plugin
D. apache ant aem-deploy plugin

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
A DevOps engineer checks the OSGI console after deployment of a bundle. The OSGI bundle is in the installed state and is not starting.

Where should the DevOps engineer look for issues?

A. The install log
B. The bundle install log within the OSGI console
C. The error log
D. The OSGI install log within the CRX

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7 From which three locations can CRX packages be installed using an out-of-the-box configuration?
(Choose three.)

A. /apps
B. /content/dam
C. /home/groups
D. /var
E. /libs/system
F. /etc/packages

Correct Answer: BEF
Section: (none)
Explanation

Explanation/Reference:
QUESTION 8 When running an AEM instance in Production Ready Mode, which two security measures are applied?
(Choose two.)

A. WebDAV Access to repositories will only be available on author instances.
B. Author user account is disabled on publish instances.
C. The CRXDE Support bundle (com.adobe.granite.crxde-support) is disabled.
D. HTTPS transport layer is enabled.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:
Reference https://helpx.adobe.com/experience-manager/6-3/sites/administering/using/security-checklist.html

QUESTION 9 How should a DevOps engineer increase offline tar compaction
performance?

A. Set "> /dev/nul 2>&1"
B. Increase memory allocated to the Java container
C. Set -Dcompaction-progress-log to 1
D. Set -Dtar.memoryMapped to true

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference http://www.aemcq5tutorials.com/tutorials/online-offline-tar-compaction-in-aem/#performance_tar_compact

QUESTION 10 How should the run mode be configured to
set it to "UAT"?

A. Rename the quickstart.jar filename to contain the run mode before the initial UAT installation.
B. Set the run mode in the system properties in the start script on all systems of the UAT environment and restart the system.
C. Configure the run mode on the Felix console of all systems in the UAT environment.
D. Create a configuration package that contains this run mode, deploy it on the author of the UAT environment, and replicate the package.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11 A DevOps engineer receives a blank page in the browser while the log file prints "No renderer for
extension html".

What is a potential cause of this issue?

A. The path for the resource type as declared by the content node does not exist
B. The resource super type declaration is missing on the content node
C. The apache dispatcher does not send the correct format header
D. The content path is not configured to deliver HTML renderings

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
A DevOps engineer needs to verify that a bundle has been installed correctly. The DevOps engineer points to "system/console/bundles" and receives an "HTTP ERROR: 403".

What is the cause of this error?

A. The DevOps engineer needs to check the error.log file to find out what happened.
B. The bundle was not installed correctly.
C. An AEM restart is required to perform post-installation actions.
D. The DevOps engineer did not authenticate to the server.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13 What should a DevOps engineer do when installing Hotfixes, Feature Packs, Cumulative Fix Packs and Service packs?
(Choose two.)

A. Test them before deploying to PROD on a PROD copy
B. Watch the request logs closely for any issues
C. Test them after deploying to PROD on the live PROD system
D. Watch the error logs closely for any issues

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14 You are configuring backup for the first time. Which backup strategy should a DevOps
engineer use?

A. Single complete repository backup on each AEM instance
B. One complete repository backup and one content package backup via CRX for quick restore on author AEM instance
C. One complete repository backup and one content package backup via CRX for quick restore on each AEM instanceD. Different backup packages for different content via the CRX package on each AEM instance

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15 A DevOps engineer needs to obtain an already existing OSGi bundle from a running
AEM instance.

Which method should the DevOps engineer use?

A. Identify the bundle name via the REST API and look for it on the filesystem within the datastore folder B.
Identify the bundle ID via the REST API and download it via curl
C. Identify the bundle ID via the OSGi console and create a content package for it to download
D. Identify the bundle ID via the OSGi console and look for it on the filesystem within the Launchpad folder

Correct Answer: D

Section: (none)
Explanation

Explanation/Reference:

QUESTION 16 Which four can be deployed using a CRX
Package? (Choose four.)

A. A repository data store configuration
B. A runmode configuration
C. The key for encrypting values in the repository (/etc/key)
D. A bundle with a non-standard start level
E. Cloud service configurations
F. Replication agents
G. Trust store certificates

Correct Answer: ACDF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17 When configuring the Java Virtual Machine (JVM), which setting configures the
JVM heap size?

A. xmx and jvmx
B. xss and jvms
C. xms and jhs
D. xms and xmx

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18 Given the Sling log rotation configuration, which two controls should be used for the rotation of the log?
(Choose two.)

A. A time/date schedule
B. A maximum file size
C. A system cron file
D. A system task

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
QUESTION 19 When should a DevOps engineer schedule maintenance
tasks? (Choose two.)

A. During other maintenance tasks
B. During planned "downtimes"

C. During out of office hours
D. During a backup window

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20 How should a DevOps engineer configure against Cross Site Request
Forging attacks?

A. Create a filter to allow /libs/granite/csrf/token.json path and CSRF-Token header in dispatcher
B. Set Access-Control-Allow-Origin to wildcard
C. Send the proper X-Frame-Options HTTP response headers that instruct the browser to disallow framing from other domains

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference https://helpx.adobe.com/experience-manager/dispatcher/using/configuring-dispatcher-to-prevent-csrf.html

QUESTION 21 The disk of an attributing
system is filling.

How should a DevOps engineer determine where the most content is stored in the CRX?

A. Use the diskusage.sh script
B. Use the disk usage report tool
C. Use the repository check in the web console
D. Use the jmx diskusage monitoring

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
How should a DevOps engineer launch a production ready AEM?

A. Launch AEM on a production instance
B. Launch aem-quickstart jar with a production flag
C. Launch aem-quickstart jar with a nosamplecontent flag
D. Add an instance to a production load balancer

Correct Answer: C
Section: (none)
Explanation
Explanation/Reference:
Reference https://helpx.adobe.com/experience-manager/6-3/sites/administering/using/production-ready.html

QUESTION 23 A DevOps engineer needs to take a publish instance out of the loadbalancing for maintenance so that it does not
answer requests.

Which step should the DevOps engineer take regarding replication of content?

A. Deactivate the replication agent for this publish instance
B. Stop the replication bundle
C. Disable the replication agent for this publish instance
D. Stop the replication queue

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24 The log file shows many occurrences of
org.apache.sling.api.resource.LoginException.

What are three reasons for these occurrences? (Choose three.)

A. For the particular OSGi bundle causing the exception, there is no service user mapping configured
B. The configured service user is not a system user or does not exist
C. For the particular Java class causing the exception, there is no service user mapping configured
D. Administrative resource resolvers have been disabled by configuration and the software deployed still relies on it
E. There is no default user configured in the service user mapping configuration
F. Some exception instances may relate to failed login attempts with incorrect credentials
G. The software deployed still uses an administrative resource resolver that can no longer be used

Correct Answer: ABG
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25 The DevOps engineer notices that unnecessary requests that contain parameters proceed to be answered by AEM.

How should a DevOps engineer block these requests?

A. /0003 {/glob "param"/type "deny" }
B. /0005 {/glob "csref" /type "allow" }
C. /0005 {/glob "nocache" /type "permit" }
D. /0004 {/glob "parameter" /type "block" }

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
Which user must be used to get a working replication over /content/www area only?

A. A user that has read and replication rights over /content/www
B. A user that has read rights over /content/www
C. A user that has replication rights over /content/www

D. A user that has read, create and replication rights over /content/www

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference https://helpx.adobe.com/experience-manager/6-3/sites/deploying/using/replication.html

QUESTION 27
When enabling the dispatcher module, which additional setting must be added for the module to function correctly?

A. Mod_MimeUsePathInfo On
B. Mod_MimeUsePathInfo Off
C. Mod_MimeDispatcherModule OffD. Mod_MimeDispatcherModule On

Correct Answer: A
Section: (none)
Explanation
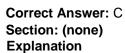
Explanation/Reference:
Reference https://helpx.adobe.com/experience-manager/dispatcher/using/dispatcher-install.html

QUESTION 28 AEM takes longer than expected to
process HTTP calls.

Which method is the right combination of information source, tool, and method to analyze such performance issues?

A. Apache access.log, AEM request.log, rlog.jar, cache ratio formula
B. AEM request.log, AEM dispatcher.log, rlog.jar, expires time formula
C. Apache request.log, AEM access.log, analyze_rlog.jar, response time formula
D. AEM access.log, AEM request.log, rlog_analyzer.jar, response ratio formula

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29
A DevOps engineer is installing a package. The engineer receives the error message "javax.jcr.nodetype.ConstraintViolationException: OakConstraint0001: /apps/cq/core/content[[nt:folder]]: No matching definition found for child node with effective type [nt:unstructured]". The installation of the package worked flawlessly on other instances.

What are two possible causes of this issue? (Choose two.)

A. The node /apps/cq/core/content exists but has a wrong primary type
B. The filter rules in the package's filter.xml have the wrong order
C. Another overlay package with conflicting node structure has been installed before this package
D. The node /apps/cq/core/content does not exist
E. Overlays were prohibited by configuration flag in the package manager's OSGi configuration
F. The filter for path /apps/cq/core/content must not be of node merge
Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30 What are two useful frameworks/tools to monitor AEM
instances? (Choose two.)

A. Sling Health Check Tools
B. CRX Explorer
C. AEM Context Hub
D. CRXde Lite
E. Sling Metrics

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31 After deployment, publishers still show old
static pictures.

Which action must a DevOps engineer take to fix this issue?

A. Reset Dispatcher Cache
B. Restart Dispatcher
C. Restart Load Balancer
D. Restart AEM

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32 How should a DevOps engineer prevent Denial of Service (DoS) attacks against AEM
6.x instances?

A. By implementing a protected network environment installing the latest security hotfixes
B. By leaving the Adobe Dispatcher set to the default configuration and installing the latest security hotfixes
C. By implementing a web application firewall and installing the latest security hotfixes
D. By configuring Sling, Adobe Dispatcher, a web application firewall, installing the latest security hotfixes and implementing a protected network environment

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference https://helpx.adobe.com/experience-manager/6-3/sites/administering/using/security-checklist.html

QUESTION 33
What must a DevOps engineer do to install an AEM instance as an author?
A. Set run mode for author in an OSGI console after the first start
B. Provide java property instance.type=author
C. Unpack the quickstart jar under the installation directory in a folder named author
D. Provide the run mode "author" on a first installation

Correct Answer: C

Section: (none)
Explanation

Explanation/Reference:
Reference http://www.tothenew.com/blog/configuring-dispatcher-author-and-publish-instance-of-adobe-experience-manager-aem/

QUESTION 34 Which tool should be leveraged to fix a
corrupted repository?

A. oak-run
B. oak-backup
C. oak-backup-run
D. oak-core
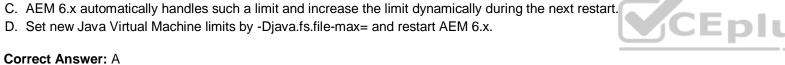
Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35 The log files contain the error "Too many files". CRX is
not responding.

What should a DevOps engineer do to increase the open files limit?

A. Check the CRX process user limit for maximum open files, and run ulimit to set higher values.
B. Restart AEM 6.x with a higher number of value in start.sh - -fs.file.max=value.
C. AEM 6.x automatically handles such a limit and increase the limit dynamically during the next restart.
D. Set new Java Virtual Machine limits by -Djava.fs.file-max= and restart AEM 6.x.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference https://helpx.adobe.com/experience-manager/kb/TooManyOpenFiles.html

QUESTION 36 Which three sets of run modes is correct for a supported storage element in AEM?
(Choose three.)

A. crx3,crx3mongo
B. crx3,crx3tar
C. crx3,crx3mongomk
D. crx3,crx3rdb
E. crx3,crx3oracle
F. crx3,crx3tarmk

Correct Answer: ABC
Section: (none)
Explanation
Explanation/Reference:

QUESTION 37 In the replication agent configuration, what is the purpose of
'Agent User Id'?

A. To label the replication agent that is shown in the webUI

B. To set the user that is used to replicate the content to the publish instance
C. To authenticate on the publish instance
D. To configure this user to select specific content for the replication

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference https://forums.adobe.com/thread/2348740

QUESTION 38
When monitoring replication agents, for which two event should a monitoring system provide alerts? (Choose two.)

A. 200 in the replication log
B. More than 10,000 items in the queue
C. Queue blocked
D. 403 in the replication log

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
A page cannot be rendered (HTTP response 500). The log file shows a NullPointerException. The source code points to a missing OSGi service "NavigationService". The code uses @Reference to inject this service.
What are four possible causes of this issue? (Choose four.)

A. The interface NavigationService and the implementation of the NavigationService reside in different bundles
B. There is more than one implementation of the NavigationService active in the system
C. The bundle that contains the implementation of the NavigationService is in state ACTIVE
D. The implementation of the SCR component has unsatisfied references
E. The @Reference annotation was invalidly used in a class that is not a SCR component
F. The bundle that contains the implementation of the NavigationService is in state RESOLVEDG. The bundle that contains the implementation of the NavigationService is in state INSTALLED
H. The bundle that contains the implementation shows different versions in "Bundle Location" string compared to "Version" as shown in Felix Console

Correct Answer: ACGH
Section: (none)
Explanation

Explanation/Reference:

QUESTION 40
Cloning an AEM instance to perform tests on production content, also called back-staging, is often required.

Which three must be reconfigured after the cloning is complete? (Choose three.)
A. The replication and/or flush agent target IP
B. The environment specific OSGi configurations
C. The run modes
D. The clustr_node.id

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 41 Scaling publish systems horizontally is one way to set up highly available architecture and make sure more load can be handled.

What three must be reconfigured after cloning a publish instance in a production setup? (Choose three.)

A. The instance must be added to the load balancer
B. A new flush agent must be created on the author instanceC. A new replication agent must be created on the author instance.
D. The publish flush agent target IP must be changed to the specific dispatcher IP

Correct Answer: ACD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 42 What is the purpose of Tar
compaction process?

A. To optimize data stored in TAR filesystem buffers
B. To optimize data stored in tar files in a CRX3 repository
C. To optimize data stored in tape archive in CRX3 backup
D. To optimize data stored in temporary archives in RAM

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43 A GET request to an AEM instance returns HTTP response code 404 when
200 is expected.

What are two possible causes? (Choose two.)

A. The request path cannot be resolved to any node in the JCR repository
B. The user for the given Authentication header does not have the jcr:read permission for the corresponding JCR node
C. No servlet could be found for the given path, selectors, extension and suffix
D. The URL requires authentication but no Authentication header has been provided
E. The Sling Authentication Service is missing

Correct Answer: AB
Section: (none)
Explanation
Explanation/Reference:

QUESTION 44 Monitoring AEM is a main requirement to run an AEM
instance successfully.

Which data must be monitored to make sure that an online compaction runs properly if needed?

A. CPU load
B. Heap memory

C. System RAM

D. Disk space

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45 Which backup scenario maintains a low
storage profile?

A. AEM daily online backup with daily differential backups

B. AEM weekly online backup with daily full backups

C. AEM daily online backup with daily incremental backups

D. AEM daily online backup with weekly full backups

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46 A DevOps engineer needs to
deploy a bundle.

Which three methods should be used? (Choose three.)

A. Install the bundle via the OSGi console

B. Place the jar within the /osgi/bundle/install folder

C. Place the jar within the crx-quickstart/install folder

D. Deploy the bundle via a package over the package manager

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47 A package that was formerly installed via folder crx-quickstart/install is deleted from
that directory.

What is the result?

A. The package is automatically deleted from package manager but its content remains in JCR.

B. The package is automatically uninstalled but remains as an installable package in package manager.

C. The package is automatically uninstalled and deleted from package manager.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48

A DevOps needs to reuse a single Maven pom file in combination with content package Maven plugin for deployment across multiple stages (e.g., development, test, integration, UAT, production).

Which Maven concept should the DevOps engineer apply?

A. Maven goals
B. Maven phases
C. Maven build profiles
D. Maven dependencies

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference https://helpx.adobe.com/experience-manager/6-3/sites/developing/using/vlt-mavenplugin.html

QUESTION 49 What should you consider before
starting a backup?

A. Use a compression program to create the zip file
B. Make sure that the garbage collection is not running
C. Run the Tar Optimizer
D. Use Online Backup for the file system and database

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50 Which tasks should be executed regularly to maintain a low storage profile and a well-performing
AEM instance?

A. Version Clean Up and Index Garbage Collection
B. Datastore Garbage Collection and Revision Garbage Collection
C. Index Compaction and Datastore Clean Up
D. Repository Clean Up and Datastore Version Clean Up

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference: