**Certified DevOps Engineer Quiz**

**Name: Moshiur Rahman Chowdhury**

**Mail ID: Engg.tipu@gmail.com**

**Contact: 01670536396**

**Question 1**  
Which one of the following methodologies does least impact the establishment of DevOps methodology?

* **Option-1:**Lean Manufacturing.
* **Option-2:**Agile Software Delivery.
* **Option-3:**Waterfall Software Delivery.
* **Option-4:**Continuous Software Delivery.

**Correct Answer: 3**  
  
**Question 2**  
In typical IT organizations why is there a typical conflict between development and operations teams?

* **Option-1:**Because they come from different backgrounds.
* **Option-2:**Because development team knows more about software products and services.
* **Option-3:**Because operations team knows more about test and production environments.
* **Option-4:**Because they have conflicting business goals and priorities.

**Correct Answer: 4**

**Question 3**  
Which one of the following techniques makes DevOps a successful methodology to develop and deliver software?

* **Option-1:**DevOps enables you to organize your teams around your organizational mission.
* **Option-2:**DevOps enables you to create your software with built-in quality and monitoring.
* **Option-3:**DevOps enables you to quickly identify, fix and learn from errors.
* **Option-4:**All above Options.

**Correct Answer: 4**  
  
  
**Question 4**  
Which one of the following statements about DevOps is incorrect?

* **Option-1:**DevOps is only suitable for start-up companies.
* **Option-2:**DevOps is suitable for brownfield software products and services.
* **Option-3:**DevOps is suitable for greenfield software products and services.
* **Option-4:**Some of the most exemplary DevOps initiatives started in companies with giant and mature IT organizations.

**Correct Answer: 1**  
  
  
**Question 5**  
How does a DevOps organization act in principle when it comes to financing its work?

* **Option-1:**It finances special projects to serve its clients.
* **Option-2:**It finances products and services to serve its clients.
* **Option-3:**It finances teams in matrix organizations and these teams are responsible for handling their own budgets.
* **Option-4:**It finances development and operations teams separately, so they take care of their own business.

**Correct Answer: 2**  
  
**Question 6**  
In a DevOps organization which one of the following elements does not directly contribute to your value stream?

* **Option-1:**DevOps team.
* **Option-2:**Stakeholders of downstream work centers.
* **Option-3:**Errors, incidents and fixes.
* **Option-4:**Clients.

**Correct Answer: 3**  
  
**Question 7**  
Why is it a good idea to limit batch size of your continuous DevOps deliveries?

* **Option-1:**You will be quicker to identify root causes of issues and resolve them.
* **Option-2:**By continuously delivering in production, your team will have the constant pride of contributing your organizational mission.
* **Option-3:**Potentially required rollbacks from your production systems will be less cumbersome.
* **Option-4:**All above Options.

**Correct Answer: 4**  
  
  
**Question 8**

**Correct Answer: 1**  
  
**Question 9**  
Which one of the following is not one of the DevOps principles for good test automation?

* **Option-1:**Test Automation should give quick and early feedback about your quality of work.
* **Option-2:**Never mix test driven development (TDD) together with your test automation approach.
* **Option-3:**Tests should generate consistent, deterministic and repeatable results provided same conditions for different test runs.
* **Option-4:**With your test automation, avoid slow and periodic feedback. What you need is fast feedback whenever you or your developer attempts to check-in code to your trunk.

**Correct Answer: 2**  
  
  
**Question 10**  
Which one of following release patterns does not enable you to do low risk DevOps code deployments in your production systems?

* **Option-1:**Canary Deployment Pattern (The Dark Launch).
* **Option-2:**Blue-Green Deployment Pattern.
* **Option-3:**Cluster Immune System Release Pattern.
* **Option-4:**Big bang code deployments of fully tested and validated releases.

**Correct Answer: 4**

**Question 11**  
What is one of best techniques to convert normal changes into standard changes?

* **Option-1:**Use your track record of successful automated deployments with standard changes.
* **Option-2:**Negotiate with release managers.
* **Option-3:**Publicly complain about bureaucracy and make everyone be aware of it.
* **Option-4:**Make sure normal changes are very carefully deployed to your production systems.

**Correct Answer: 1**  
  
  
**Question 12**  
What is a widely used reusable asset to reinforce information security of deliverables from your DevOps team?

* **Option-1:**Data storage systems.
* **Option-2:**Handling the logging of sensitive client information.
* **Option-3:**Data transfer between clients and software.
* **Option-4:**All above Options.

**Correct Answer: 4**  
  
**Question 13**  
What is not one of major benefits of designing a safe system of work culture?

* **Option-1:**Complexity of your systems will be managed, so problems in designs and operations will be quickly detected.
* **Option-2:**DevOps team does no longer need to be careful and mindful to ensure quality.
* **Option-3:**Problems are quickly resolved while they are small. Resolving problems will result in spontaneous construction of new organizational knowledge and experience.
* **Option-4:**Leaders in your DevOps organization develop other leaders who create and continuously improve safe systems of work.

**Correct Answer: 2**

**Question 14**  
What is telemetry?

* **Option-1:**Telemetry is a widely known SaaS tool to plan and execute DevOps projects.
* **Option-2:**Telemetry is a communication tool used by DevOps teams at geographically distributed locations.
* **Option-3:**Telemetry is the process of recording the behavior of your systems.
* **Option-4:**Telemetry is a tool to design, code and execute automated unit tests.

**Correct Answer: 3**  
  
**Question 15**  
In terms of fixing errors in your production systems what is the major benefit of using feature toggles embedded in configurations of your software applications?

* **Option-1:**This is easiest way to fix a problem. It doesn’t require an urgent code deployment.
* **Option-2:**You don’t have to very urgently correct erroneous pieces in your deployment.
* **Option-3:**Your DevOps team can take time to properly identify root cause of an issue and improve their techniques to ensure such a problem will not likely happen again in the future.
* **Option-4:**All above Options.

**Correct Answer: 4**

1. What is CI &CD?

Continuous IntegrationContinuous integration is an approach in which developers merge their code into a  
shared repository several times a day. For verification of the integrated code, automated  
tests and builds are run for it.

Continuous DeliveryContinuous delivery is a strategy in which the development teams ensure the software is  
reliable to release at any time. On each commit, the software passes through the  
automated testing process. If it successfully passes the testing, it is then it is said to be  
ready for release into the production.

1. What is DevOps?

**DEVOPS:**DevOps is a set of practices that combines software development and IT operations. It aims to shorten  
the systems development life cycle and provide continuous delivery with high software quality. DevOps  
is complementary with Agile software development; several DevOps aspects came from Agile methodology.

1. What is IaaS?

IaaS = Infrastructure-as-a-Service,

1. Is Docker IaC? Yes
2. What is the purpose of Jenkins?

The Pipeline Integrates Individual Jobs for a Bigger Purpose, Lowers the Effort of Converting CLI to GUI, Keeps People in Sync, Especially in Slack

1. How GIT Hub contribute on DevOps Flow?

1. What is Grafana& Prometheus?
2. Write down Troubleshooting Scientific Method Step.
3. How DevOps is efficient from Legacy operation & Development process.
4. Course Outcomes & Comments.
   1. Teaching Elegance out of 10 >
   2. Coach Knowledge out of 10 >
   3. Further Improvement area in Page Cloud Academy:

1.

2.

3. if someone miss the class think about that student. Provide class record.