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Module 3

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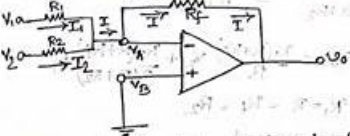
① Summing Amplifier

Whenever we need to combine two or more analog signals into a single output, summing amplifier is needed. The summing circuit combines the input signals into a single output.

If more than 1 input is applied to the any terminal of opamp, the output will be the addition of applied signals. Therefore, it is called summing amplifier. There are mainly 2 types of summing amplifier, inverting summing amplifier and non-inverting summing amplifier.

② Inverting Summing Amplifier (Inverting Adder) :-

In inverting summing amplifier, inputs are connected to the inverting terminal of opamp.



- * Due to V_1 , I_1 current flows through R_1 . And due to V_2 , I_2 current flows through R_2 .
- * We know that no current flows in and out of the input terminals of opamp (because input impedance of opamp is ideally infinite).
- * Also, the voltage between inverting and non-inverting terminals of opamp is zero.

So, $V_A = V_B$.

From the circuit we can write: $V_B = 0$

Let us equate equation ③ and ④

$$\frac{V_1}{R_1} + \frac{V_2}{R_2} = -\frac{V_0}{R_f}$$
$$\Rightarrow V_0 = -\left[\frac{R_f}{R_1} V_1 + \frac{R_f}{R_2} V_2\right]$$

This is the output of inverting summing amplifier or inverting adder.

If we assume, $R_f = R_1 = R_2$

Then, $V_0 = -(V_1 + V_2)$

∴ sign signifies that output will have 180° phase shift.

At the input end,
 $I_1 = \frac{V_1 - V_A}{R_1} = \frac{V_1 - 0}{R_1} \rightarrow ③$
 $I_2 = \frac{V_2 - V_A}{R_2} = \frac{V_2 - 0}{R_2} \rightarrow ④$

Now,
 $I = I_1 + I_2 = \frac{V_1}{R_1} + \frac{V_2}{R_2} \rightarrow ⑤$

At output end,
 $I = \frac{V_A - V_0}{R_f} = \frac{0 - V_0}{R_f} = -\frac{V_0}{R_f} \rightarrow ⑥$

What's more, part of that Pass4suresVCE 3V0-32.23 dumps now are free: <https://drive.google.com/open?id=1uTNtL08U85929cYo-riSnCglbu92TJF>

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To prepare for the VMware 3V0-32.23 Exam, candidates should have experience with VMware technologies and products, as well as a solid understanding of cloud computing concepts and architecture. They should also have experience in designing and implementing VMware solutions in a cloud environment. VMware offers a range of training courses and resources to help candidates prepare for the exam, including instructor-led courses, eLearning modules, and practice exams.

VMware 3V0-32.23 certification exam is ideal for professionals who work in roles such as cloud architect, cloud engineer, cloud consultant, and IT manager. It is also suitable for IT professionals who want to advance their careers in cloud computing and demonstrate their expertise in designing and managing complex cloud solutions. Cloud Management and Automation Advanced Design certification is recognized globally and is highly valued by employers who are looking for skilled professionals to manage and operate their cloud-based environments.

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What is more difficult is not only passing the Financials in Cloud Management and Automation Advanced Design (3V0-32.23) certification exam, but the acute anxiety and the excessive burden also make the candidate nervous to qualify for the Cloud Management and Automation Advanced Design (3V0-32.23) certification. If you are going through the same tough challenge, do not worry because Pass4suresVCE is here to assist you.

VMware Cloud Management and Automation Advanced Design Sample Questions (Q140-Q145):

NEW QUESTION # 140

A cloud architect is trying to determine the operational impacts of adding another business group (DevOps) to the company's existing vRealize Automation (vRA) deployment. Existing users have reported that response times for login into their vRA infrastructure has spiked recently and it is taking longer than usual. The Active Directory user base, after the addition of DevOps users, could increase to well over 100,000 users and 50 groups.

What is the VMware-recommended design to address this scenario?

- A. Change the default access policy when adding the additional user base.
- B. Add an additional IaaS DEM server.
- C. Add an additional IaaS proxy agent.
- D. Add an additional connector to the existing Active Directory.
- E. Increase the vRA virtual appliance memory allocation on each machine as per sizing guidelines.

Answer: E

NEW QUESTION # 141

An architect is designing a certificate strategy for vRealize Operations (vROps) to satisfy the following requirements:

- Enhance security
- Avoid browser warnings
- The certificate must be applicable for all vROps servers

Which three design decisions would fulfill the requirements? (Choose three.)

- A. Certificates will use multiple Subject Alternative Name (SAN) entries.
- B. Certificates will use the PFX and/or PKCS12 format.
- C. The solution will use self-signed certificates.
- D. Certificates will use the PEM format.
- E. Certificates will be created using the Diffie-Hellman security-key algorithm.
- F. The solution will use CA-signed certificates.

Answer: A,D,F

NEW QUESTION # 142

An architect is responsible for creating the design for Cloud Monitoring solution that will be used to monitor a VMware software-defined data center.

Given the information from the Service Owner, which two would be considered as non-functional requirements? (Choose two.)

- A. The solution must support the retention of live data for at least 12 months.
- B. The solution must support the monitoring of 2000 virtual machines across two physical data center locations.
- C. The solution must support the ability to scale by 20 percent over the next five years.
- D. The solution must support a monthly availability target of 99.9%.
- E. The solution must support a Recovery Time Objective of four hours.

Answer: C,D,E

Explanation:

Non-functional requirements define how a system should operate, such as its availability and recovery targets, rather than what the system should do (functional requirements).

NEW QUESTION # 143

An architect has been asked about migrating a client's solution from vRealize Automation 7.x to VMware Aria Automation 8.x. One of the requirements is to continue to build custom cloud templates.

Which component of a VMware Aria Automation solution will fulfill this requirement?

- A. Aria Automation Consumption
- B. Cloud-Init
- C. Cloud Zones
- **D. Aria Automation Assembler**

Answer: D

Explanation:

Aria Automation Assembler is the component in VMware Aria Automation 8.x used to create, edit, version, and publish custom cloud templates, fulfilling the requirement to continue building custom templates after migrating from vRealize Automation 7.x.

NEW QUESTION # 144

What is the primary purpose of VMware Aria Automation in a physical design?

- A. Organizing company parties
- **B. Automating complex IT workflows and processes**
- C. Defining employee job roles
- D. Streamlining supply chain processes

Answer: B

NEW QUESTION # 145

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