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Question 1

Question Type: MultipleChoice

TASK 5

As the Cloud Administrator, you have been tasked lo complete the following tasks tor the Pluto Project.

1. Configure the following on the network nsx-pluto-existing in the network profile called Pluto Networks

a. IPv4 CIDR: 172.16.17.0/24

b. IPv4 Gateway: 172.16.17.1

c Default Domain: corp.local d. Assign a Capability Tag:

* key: net

* value: existing

2. Define a new IP Range on the nsx-pluto-existing network that has the following configuration:

a. Network IP Range Name: pluto-existing-range b IP Range: 172.16.17.5-172.16.17.250

3. Assign a new capability tag to the sgPlutoDatabase Security Group:

a. key: sg

b. value: plutodatabase

4. Update the Pluto Networks Network Profile:

a. Ensure it only has the following networks assigned:

i. nsx-pluto-extemal

ii. nsx-pluto-existing

iii. nsx-pluto-outbound b Configure nsx-pluto-outbound as the external network for the network policy c. Assign a new capability tag to the Pluto Networks network profile:

i. key: net ii. value: pluto

Options:

A- See the Explanation for complete Solution

Answer:

A

Explanation:

To complete the tasks for the Pluto Project as a Cloud Administrator, you would follow these steps:

Task 1: Configure Network nsx-pluto-existing in Pluto Networks Profile

Access the vRealize Automation console.

Navigate toInfrastructure>Configure>Network Profiles.

Select the ''Pluto Networks'' profile.

Configure the network nsx-pluto-existing with the following settings:

IPv4 CIDR:172.16.17.0/24

IPv4 Gateway:172.16.17.1

Default Domain:corp.local

Assign a Capability Tag with key:netand value:existing.

Task 2: Define a New IP Range

Within the ''Pluto Networks'' profile, select the nsx-pluto-existing network.

Add a new IP Range with the following configuration:

Network IP Range Name:pluto-existing-range

IP Range:172.16.17.5-172.16.17.250

Task 3: Assign Capability Tag to sgPlutoDatabase Security Group

Locate the sgPlutoDatabase Security Group within the vRealize Automation console.

Assign a new capability tag to the security group with key:sgand value:plutodatabase.

Task 4: Update the Pluto Networks Network Profile

Ensure the Pluto Networks profile includes only the following networks:

nsx-pluto-external

nsx-pluto-existing

nsx-pluto-outbound

Configure nsx-pluto-outbound as the external network for the network policy.

Assign a new capability tag to the Pluto Networks network profile with key:netand value:pluto.

Please ensure to follow the specific steps and configurations as per your organization's standards and the vRealize Automation documentation for detailed instructions on each task

Question 2

Question Type: MultipleChoice

TASK 9

As the Cloud Administrator. you have been tasked to troubleshoot and fix errors of an existing cloud template. You must ensure:

1. VM resource uses storage tag:

* Key: storage. Value: gold

2. Network resource uses network tag:

* Key: net

* Value: nsx-routed

3. Configure NSX Network Type: routed

4. A virtual machine can be successfully deployed from the cloud template using the information provided.

NOTE: One or more of the tasks above may take some time to complete For expediency, it is recommended that once the task has started successfully that you continue with the exam and return later to confirm the task has been completed successfully. There are no dependencies between any_questions and therefore the successful completion of this question does no! impact the ability to attempt any_others_guestion in this exam.

NOTE: Not all available tags will appear on the tag selection drop-down when you're editing the cloud template.

Information required to complete the tasks:

* vRealize Automation URL: vr-aulomation.oorp.local

* Cloud Admin Username: vcapadmin@corp.local

* Cloud Admin Password: VMware1!

* Project Name: Earth

* Cloud Template name: Earth-TS-Fix

* Deployment name: Earth-Fixed

* Hostname: earth-fixed

NOTE: Do not create any new profit or tags.

Options:

A- See the Explanation for complete Solution

Answer:

A

Explanation:

To troubleshoot and fix the errors in the existing cloud template and ensure the requirements are met, you can follow these steps:

Ensure VM Resource Uses Storage Tag:

Edit the cloud template named Earth-TS-Fix.

Locate the VM resource definition.

Add or update the storage tag to use the key storage with the value gold:

tags:

- key: storage

value: gold

Ensure Network Resource Uses Network Tag:

Within the same cloud template, find the network resource definition.

Add or update the network tag to use the key net with the value nsx-routed:

tags:

- key: net

value: nsx-routed

Configure NSX Network Type: Routed:

Still in the cloud template, ensure the network profile is set to a routed network type by specifying the appropriate network profile that has been pre-configured with the routed type.

networks:

- network: '${resource.Cloud_NSX_Network_1.id}'

networkType: routed

Deploy Virtual Machine from the Cloud Template:

Save the changes to the cloud template.

Initiate a deployment using the Earth-Fixed deployment name and verify that the virtual machine deploys successfully with the specified hostname earth-fixed.

Monitor the deployment process and ensure that the VM and network resources are correctly tagged and that the network is configured as routed.

Question 3

Question Type: MultipleChoice

TASK 6

As the Cloud Administrator for the Saturn Project, you have been tasked to:

1. Create an ABX Action

2. Create a subscription to trigger the action only if the following conditions are met:

a. The Cloud Template is Saturn Ubuntu 18 only.

b The action should fire immediately after the compute resource gets provisioned.

c. The action should trigger only for the current project.

Additional Information required to complete the tasks:

* URL: https://vr-automation.corp.local

* Username: vcapadmin@corp.local

* Password: VMware1!

* Action Name: Saturn-Python-Script

* Python Script Content: "C:\Exam Files\Question 6\Satum Python Script.txt'

* FaaS Provider: On-Prem

* Subscription Name: Execute-Python-Script

Options:

A- See the Explanation for complete Solution

Answer:

A

Explanation:

To complete Task 6 for the Saturn Project, follow these steps:

Step 1: Create an ABX Action

Log in to the vRealize Automation console athttps://vr-automation.corp.localusing the provided credentials.

Navigate toExtensibility>Actions.

Click onNew Action.

Enter theAction Nameas ''Saturn-Python-Script''.

Select theScripting Languageas Python and theFaaS Provideras On-Prem.

Use theImport Packageoption to upload the content of the Python script from ''C:\Exam Files\Question 6\Satum Python Script.txt''.

Save the action.

Step 2: Create a Subscription

Go toExtensibility>Subscriptions.

Click onNew Subscription.

Enter theSubscription Nameas ''Execute-Python-Script''.

Set theEvent Topicto trigger after the compute resource gets provisioned, which is typically the ''Compute Provision'' event.

Define theConditionsfor the subscription:

The Cloud Template is ''Saturn Ubuntu 18'' only.

The action should trigger only for the current project.

Save the subscription.

Ensure that the conditions for the subscription match the exact criteria needed for the Saturn Project. The action will now be triggered automatically under the specified conditions after the compute resource is provisioned.

Question 4

Question Type: MultipleChoice

TASK 4

As the Cloud Administrator, you have received the following request to make the changes in vRealize Automation to support new service capabilities.

1. Create a Storage Tier to support encryption.

2. Create a Network Profile for Phobos Project.

* Choose the NSX-T network from the available list.

3. The existing Phobos Zone should offer the following capabilities

* Initial workload placement should use VMware vRealize Operations and all workloads should be placed into a specific virtual machine folder by default.

The following information has been provided to assist you in these tasks:

The following information has been provided to assist you in these tasks:

* vRealize Automation URL: vr-automation.corp.local

* Cloud Admin Username: vcapadmin@corp.local

* Cloud Admin Password: VMware1!

Storage Profile Settings:

* Name: Encrypted Storage Tier

* Disk Type: Standard disk

* Region: vSphere Private Cloud / Local Dat

. Datastore/Cluster: RegionAOUSCSIOI-CC3'

* Provisioning Type: Thin

* Supports Encryption: Yes

* Capability Tag:

o Key: storage

o Value: encrypted

Network Profile Settings:

* Name: Phobos Networks

* Region: vSphere Private Cloud / Local Datacenter

* Network Segment: nsx-phobos-external

* Network IPv4 CIDR: 172.16.15.0/24

* Network Default Gateway: 172.16.15.1

* Domain: cofp.local

* IP Range Name: Phobos-range

* IP Range: 172.16.15.5-172.16.15.250

* Network Profile Capability Tag:

o Key: net

o Value: phobos

Cloud Zone Settings:

* Name: Phobos

* Folder: Workloads

Options:

A- See the Explanation for complete Solution

Answer:

A

Explanation:

To support the new service capabilities in vRealize Automation, you will need to perform the following tasks:

Task 1: Create a Storage Tier to Support Encryption

Log in to the vRealize Automation console using the provided Cloud Admin credentials.

Navigate toInfrastructure>Configure>Storage Profiles.

ClickNew Storage Profile.

Enter theNameas ''Encrypted Storage Tier''.

Set theDisk Typeto ''Standard disk''.

Choose theRegionas ''vSphere Private Cloud / Local Datacenter''.

Select theDatastore/Clusteras ''RegionA01USCSIOI-CC3''.

ForProvisioning Type, select ''Thin''.

EnsureSupports Encryptionis set to ''Yes''.

Add aCapability Tagwith Key as ''storage'' and Value as ''encrypted''.

Save the storage profile.

Task 2: Create a Network Profile for Phobos Project

In the vRealize Automation console, go toInfrastructure>Configure>Network Profiles.

ClickNew Network Profile.

Provide theNameas ''Phobos Networks''.

Set theRegionto ''vSphere Private Cloud / Local Datacenter''.

UnderNetwork Segment, choose ''nsx-phobos-external''.

Enter theNetwork IPv4 CIDRas ''172.16.15.0/24''.

Set theNetwork Default Gatewayto ''172.16.15.1''.

Specify theDomainas ''corp.local''.

Go to theIP Rangestab and add a new range named ''Phobos-range'' with the range ''172.16.15.5-172.16.15.250''.

Add aNetwork Profile Capability Tagwith Key as ''net'' and Value as ''phobos''.

Save the network profile.

Task 3: Configure Workload Placement for Phobos Zone

Ensure that VMware vRealize Operations is integrated with vRealize Automation for advanced workload placement1.

In the vRealize Automation console, navigate toInfrastructure>Cloud Zones.

Locate and edit the existing cloud zone named ''Phobos''.

In thePlacement Policysection, set it to use VMware vRealize Operations.

Specify the default virtual machine folder for workload placement as ''Workloads''.

Save the changes to the cloud zone.

By completing these steps, you will have created a storage tier that supports encryption, a network profile for the Phobos Project, and configured the Phobos Zone to offer advanced capabilities using VMware vRealize Operations. Always ensure to follow your organization's best practices and security policies when making changes to the infrastructure.

Question 5

Question Type: MultipleChoice

TASK 12

As the Cloud Administrator, you have been tasked to update the Atlas App cloud template in the Atlas project. Perform the following tasks:

1. Edit the existing cloud template Atlas App. such that it is a multi-tier application that meets the following requirements:

* 2 Web servers

* 1 Database server

* The Database server is always built before the Web servers

* 2 NSX Networks:

o The first network should use the NAT feature

* Resource Name: external

* Second network should be an existing network

* Resource Name: internal o All networks should be restricted to use only the Atlas project networks

o The internal network should be restricted to use only the nsx-atlas-existing NSX network

* Both the web and db VMs should be connected to the internal network

2. Add an NSX load balancer to provide access from the outside to the two Web servers:

* Resource Name: lbWeb

* Port: 443

* Protocol: HTTPS

3. Assign an existing Security Group to the Web servers:

* Resource Name: sgWeb

* Instances: Web Sewers

* Constraint Tag Key: sg

* Constraint Tag Value: atlasweb

Options:

A- See the Explanation for complete Solution

Answer:

A

Explanation:

To update the Atlas App cloud template to meet the specified requirements, you would perform the following steps in vRealize Automation:

Task 1: Edit the Cloud Template for Multi-tier Application

Access the vRealize Automation console and navigate to Design > Cloud Templates.

Open the existing cloud template named ''Atlas App''.

Modify the template to include:

2 Web Server Instances: Define two instances of the web server component.

1 Database Server Instance: Define a single instance of the database server component.

Build Order: Ensure the database server is set to be built before the web servers by adjusting the dependsOn property.

2 NSX Networks:

External Network (NAT): Create a network resource with the name external and configure it to use NAT.

Internal Network (Existing): Create a network resource with the name internal and link it to the existing nsx-atlas-existing network.

Restrict Networks: Apply constraints to ensure that only networks associated with the Atlas project are used.

Task 2: Add NSX Load Balancer

In the cloud template, add an NSX load balancer resource with the name lbWeb.

Configure the load balancer to distribute traffic to the web servers on port 443 using the HTTPS protocol.

Task 3: Assign Security Group to Web Servers

Define a security group resource with the name sgWeb.

Assign this security group to the web server instances.

Use constraint tags with the key sg and value atlasweb to ensure the security group is applied correctly.

Here is a simplified example of what the YAML configuration might look like:

resources:

dbServer:

type: Cloud.Machine

properties:

...

webServer1:

type: Cloud.Machine

properties:

dependsOn: dbServer

...

webServer2:

type: Cloud.Machine

```
properties:
dependsOn: dbServer
...
external:
type: Cloud.Network
properties:
networkType: nat
...
internal:
type: Cloud.Network
properties:
networkType: existing
constraints:
- tag: 'nsx-atlas-existing'
...
lbWeb:
type: Cloud.LoadBalancer
properties:
port: 443
protocol: HTTPS
...
sgWeb:
type: Cloud.SecurityGroup
properties:
instances: [webServer1, webServer2]
constraints:
- tag: 'sg:atlasweb'
```

...

Make sure to adjust the properties and configurations as needed to fit the specific details of your environment and the Atlas project. After updating the cloud template, validate the changes and ensure that the template meets all the requirements before saving.

Question 6

Question Type: MultipleChoice

TASK 3

As the Cloud Administrator, you have been tasked to do the following;

1. Create a new operating system image. 2 Create a new machine size. 3. Add two new Cloud templates:

a Import the first Cloud template from the provided file.

b. Create the second Cloud template based on the imported Cloud Template with the following requirements:

i. Allow the user to pick from a list of operating system images.

ii. Allow the user to pick from a list of machine sizes.

iii. Deployment must use the selected input values.

iv. Ensure you are able to review/compare any previous changes that have been made since the Cloud template was cloned in Cloud Assembly.

NOTE: Do not deploy the Cloud template

Information required to complete the tasks:

* vRealize Automation FODN: vr-automation.corp.local

* Cloud Admin Username: vcapadmin@corp.local

* Cloud Admin Password: VMware1!

* vRA Project Name: Jupiter

* Flavor Mapping Name: extra large - Flavor Mapping Config:

o Account: vSphere Private Cloud Region: Local Datacenter o CPUs: 4 CPU o RAM: 16GB

* Image Mapping Name Windows Server 2019

* Image Mapping Configuration:

o Account: vSphere Private Cloud o Region: Local Datacenter o Image: windows2019

* Imported Cloud template Name: Jupiter Ubuntu Server

* Imported Cloud template File: C:VExam Files\Question 3\jupiter.yaml

* New Cloud template Name: Jupiter Cloned Server

* New Cloud template Size Input:

o Name: size

o Title: Select a Size

o Valid Options: small, medium, extra large

* New Cloud template Image Input:

o Name: image

o Title: Select an OS Image

o Valid Options: Windows Server 2019. Ubuntu18

Options:

A- See the Explanation for complete Solution

Answer:

A

Explanation:

To accomplish Task 3 as a Cloud Administrator, you would perform the following steps:

Create a new operating system image:

Log in to the vRealize Automation console using the Cloud Admin credentials.

Navigate toDesign > Image Mappingsand clickNew Image Mapping.

Enter the details for the new operating system image, including the name and the Account/Region.

Select the appropriate content library or image to use for the new image mapping12.

Create a new machine size (Flavor Mapping):

Go toDesign > Flavor Mappingsand clickNew Flavor Mapping.

Provide the configuration details for the new machine size, such as the number of CPUs and RAM size.

Assign the new flavor mapping to the vSphere Private Cloud account and the Local Datacenter region.

Add two new Cloud templates:

a.Import the first Cloud template:

Navigate toDesign > Cloud Templates.

ClickImportand select the provided filejupiter.yamlto import the Jupiter Ubuntu Server template.

b.Create the second Cloud template based on the imported Cloud Template:

After importing, clone the Jupiter Ubuntu Server template and rename it to Jupiter Cloned Server.

Modify the cloned template to include input options for the operating system image and machine size.

Use the YAML code editor to add aninputssection where users can select the machine size and operating system image at deployment time34.

Ensure that the deployment uses the selected input values by referencing the input parameters in the resources section of the cloud template.

To review and compare any previous changes, utilize the version control features in Cloud Assembly to track changes made to the cloud template

Question 7

Question Type: MultipleChoice

TASK 10

As the Cloud Administrator you have been tasked to troubleshoot and resolve the following issues raised by the developers on the Uranus Project:

* Developers have reported that Deployments are not getting deleted as per the company lease policy.

* The Uranus Project Team Leader is responsible for approving all snapshot create requests for deployments based only on the Uranus Server blueprint, however, they have received no

requests so far.

* Developers have reported that they do not have the option to revert to existing snapshots for vSphere deployments.

Once you have completed your changes, deploy the Uranus Server Catalog Item to verify all the issues have been resolved.

NOTE: One or more of the tasks above may take some time to complete. For expediency, it is recommended that once the task has started successfully that you continue with the exam and return later to confirm the task has been completed successfully. There are no dependencies between any questions and therefore the successful completion of this question does not impact the ability to attempt any other question in this exam.

Information required to complete the tasks:

General Information;

* vRealize Automation FQDN: vr-aulomation.corp.local

* Cloud Administrator Username: vcapadmin@corp. local

* Cloud Administrator Password: VMware1!

* Project: Uranus

* Project Team Leader: vcapadmin@corp. local

* Blueprint Name: Uranus Server

* Deployment Name: Uranus-Check-Policies

Policy Information:

* Lease Policy name: Uranus - Lease Policy

* Lease Policy maximum lease period: 30 days

* Lease Policy maximum total lease period: 30 days

* Lease Policy grace period: 0 days

* Lease Policy scope: Uranus Project

* Day 2 Action Policy name: Uranus - Day 2 Actions Policy

* Approval Policy name: Uranus - Snapshot Approval Policy

Options:

A- See the Explanation for complete Solution

Answer:

A

Explanation:

To troubleshoot and resolve the issues for the Uranus Project, you should take the following steps:

Deployments Not Getting Deleted as per Lease Policy:

Verify that the lease policy ''Uranus - Lease Policy'' is correctly configured and associated with the Uranus Project1.

Check if the lease policy has been applied to the deployments. If not, you may need to manually apply the policy or adjust the existing policy settings1.

Ensure that the lease policy's scope is set to the Uranus Project and that the maximum lease and total lease periods are correctly set to 30 days1.

Snapshot Create Requests Not Received for Approval:

Confirm that the ''Uranus - Snapshot Approval Policy'' is correctly set up and linked to the Uranus Server blueprint2.

Ensure that the project team leader is listed as the approver in the policy and that the policy is active2.

Check if the conditions for triggering the approval request are correctly defined and that they match the criteria for the Uranus Server blueprint deployments2.

Option to Revert to Existing Snapshots Not Available:

Review the Day 2 Actions Policy ''Uranus - Day 2 Actions Policy'' to ensure that the action to revert to snapshots is enabled for vSphere deployments3.

Verify that the developers have the necessary permissions to perform snapshot-related actions on their deployments3.

After making the necessary changes, deploy the Uranus Server Catalog Item with the deployment name ''Uranus-Check-Policies'' to verify that all issues have been resolved. Monitor the deployment process and check if the lease policy is enforced, snapshot approval requests are generated, and developers can revert to existing snapshots as expected.

Question 8

Question Type: MultipleChoice

TASK 11

As the Cloud Administrator. you have been tasked with building a Continuous Integration/Continuous Development (CI/CD) pipeline for the Oberon Project. The requirements for this pipeline are:

* The pipeline should deploy the monolithic application. OberonWeb. only it approved by the project leader.

* The requestor should be able to specify the name of the deployment at the request time.

The following information is required to complete the task:

* vRealize Automation FODN: vr-automation.corp.local

* Cloud Administrator Username: vcapadmin@corp.local

* Cloud Administrator Password: VMware1!

Pipeline Information:

* Project Name: Oberon

* Pipeline Name: OberonWeb

* Pipeline inputs:

o deploymentName

* Stage Name: OberonWebApp

* Pipeline Tasks

o Deployment Task

o Approval Task

Approval Task Information:

* Task Name: Approval Task

* Approvers: vcapadmin@corp. local

* Summary: Approval Task

* Description:

o This is an approval for $(input. deploymentName)

Deployment Task Information:

* Task Name: Deployment Task

* Cloud Template Name: Oberon Web

* Version: 1

Deployment Name: Oberon Web App Test Important Notes:

* You must run the Pipeline, but do not approve the task

Options:

A- See the Explanation for complete Solution

Answer:

A

Explanation:

To build the CI/CD pipeline for the Oberon Project with the specified requirements, you would perform the following steps in vRealize Automation:

Log in to the vRealize Automation console at vr-automation.corp.local using the provided Cloud Administrator credentials.

Navigate to the Code Stream service to access the pipeline management features.

Create a new pipeline with the name ''OberonWeb'' within the ''Oberon'' project.

Define the pipeline inputs to include deploymentName, which allows the requestor to specify the name of the deployment at request time.

Add a stage to the pipeline named ''OberonWebApp''.

Within the stage, add two tasks:

Deployment Task: Configure this task to deploy the ''Oberon Web'' cloud template, specifying the version as 1.

Approval Task: Set up this task with the name ''Approval Task'', and assign vcapadmin@corp.local as the approver. The summary should be ''Approval Task'', and the description should include the dynamic reference to the input deployment name, such as ''This is an approval for $(input.deploymentName)''.

Ensure that the Approval Task precedes the Deployment Task within the pipeline to enforce that

the deployment only occurs after approval by the project leader.

Save the pipeline configuration.

Run the pipeline by initiating a new pipeline execution and providing a test deployment name when prompted, such as ''Oberon Web App Test''.

Do not approve the deployment when the Approval Task is triggered, as per the instructions.

By following these steps, you will have configured a CI/CD pipeline that meets the requirements of deploying the OberonWeb application only after approval by the project leader, and allows the requestor to specify the deployment name at the time of the request.

Question 9

Question Type: MultipleChoice

TASK 2

As a Cloud Administrator you have two tasks to complete:

1. Onboard new interns into vRealize Automation and assign the correct access. The Interns are split into two Active Directory groups, interns-group-a and interns-group-b. The interns-group-a group requires access to Cloud Assembly and the interns-group-b group requires access to Service Broker. The interns should be allocated the most restrictive access available.

2 Assist in resolving issues reported by the following users who do not have the correct access permissions in vRealize Automation. Each user should have the minimum permissions required to fulfill their role:

* A User with logon id appdevuset2@corp.local is only responsible for creating new and deploying from cloud templates in Cloud Assembly.

The following additional information is provided to help complete both tasks:

* IDM URL: https://identity-manager.corp.tocal/SAAS/admin or use bookmark

* IDM System Domain Username: admin

* IDM Admin Password: VMware1!

* AD Organization Unit ON: OU=lnterns.DC=corp.DC=local

* vRealize Automation URL: vr-automalion.corp.local

* Cloud Administrator Username: vca pad mm @corp. local

* Cloud Administrator Password: VMware1!

Options:

A- See the Explanation for complete Solution

Answer:

A

Explanation:

To complete the tasks as a Cloud Administrator, follow these steps:

Task 1: Onboard New Interns into vRealize Automation

Log in to the Identity Manager (IDM) using the provided URL and credentials.

Navigate toIdentity & Access Management.

UnderEnterprise Groups, find and selectinterns-group-aandinterns-group-b.

Assigninterns-group-awith the role ofCloud Assembly User, which is the most restrictive access for Cloud Assembly.

Assigninterns-group-bwith the role ofService Broker User, which is the most restrictive access for Service Broker.

Ensure that the AD Organization Unit is correctly set toOU=Interns,DC=corp,DC=localfor proper group synchronization.

Task 2: Resolve Access Permissions Issues

Log in to the vRealize Automation URL using the Cloud Administrator credentials.

Go toIdentity & Access Management.

Locate the user with the logon idappdevuser2@corp.local.

Assign this user the role ofCloud Assembly Userto allow creating and deploying from cloud templates in Cloud Assembly.

Verify that the user has the minimum permissions required and does not have any additional roles that exceed their responsibility.

By following these steps, you should be able to onboard the interns with the correct access and resolve the access permissions issues for the specified user. Always ensure to adhere to the principle of least privilege, granting users the minimum level of access necessary to perform their roles.