



# 1Y0-440<sup>Q&As</sup>

Architecting a Citrix Networking Solution

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**QUESTION 1**

Which parameter must a Citrix Architect configure to ensure that HDX Proxy Connection terminates upon AAA Session TimeOut?

- A. ICA session timeout in VPN parameters
- B. Session timeout(mins) in NetScaler gateway Session Profile.
- C. Session timeout(mins) in VPN Parameters
- D. ICA session timeout in netScaler Gateway Session Profile.

Correct Answer: D

Reference: [https://www.citrix.com/content/dam/citrix/en\\_us/citrix-developer/documents/Netscaler/how-do-i-ica-session-timeout-with-aaa.pdf](https://www.citrix.com/content/dam/citrix/en_us/citrix-developer/documents/Netscaler/how-do-i-ica-session-timeout-with-aaa.pdf)

**QUESTION 2**

Scenario: A Citrix Architect needs to design a new NetScaler Gateway deployment to provide secure RDP access to backend Windows machines.

Click the Exhibit button to view additional requirements collected by the architect during the design discussions.

Topic	Requirements
User experience	Once the user authenticates, they should be directed to a custom home page with the available RDP bookmarks. When a bookmark is clicked, an RDP connection to the backend machine will be established.
Additional considerations	Ensure that users can receive the most optimal RDP connection to backend machines located in different locations.

To meet the customer requirements, the architect should deploy the RDP proxy through \_\_\_\_\_ using a \_\_\_\_\_ solution. (Choose the correct option to complete the sentence.)

- A. CVPN: single gateway
- B. CVPN, stateless gateway
- C. ICAProxy: single gateway
- D. ICAProxy; stateless gateway

Correct Answer: C



**QUESTION 3**

Scenario: A Citrix Architect needs to assess an existing NetScaler Gateway deployment. During the assessment, the architect collected key requirements for VPN users, as well as the current session profile settings that are applied to those users.

Click the Exhibit button to view the information collected by the architect.

Requirements			
<ul style="list-style-type: none"> <li>• Users should use the NetScaler Gateway plugin to authenticate and connect to internal resources, including intranet web pages and StoreFront.</li> <li>• After authenticating users should be directed to the organization's intranet portal.</li> <li>• Once connected, outbound traffic from the client device should only pass through the NetScaler Gateway if it is directed toward an intranet resource.</li> </ul>			
Configurations			
Name	Type	Setting	Configuration
Item 1	Network Configuration	Home Page	home.workspacelabs.net
Item 2	Client Experience	Split Tunnel	ON
Item 3	Client Experience	Clientless Access	ON
Item 4	Client Experience	Client Choices	Not enabled
Item 5	Published Applications	ICA Proxy	OFF

Which configurations should the architect change to meet all the stated requirements?

- A. Item 4
- B. Item 3
- C. Item 5
- D. Item 2
- E. Item 1

Correct Answer: E

**QUESTION 4**

Scenario: A Citrix Architect has deployed Authentication for the SharePoint server through NetScaler. In order to ensure that users are able to edit or upload documents, the architect has configured persistent cookies on the NetScaler profile.

Which action should the architect take to ensure that cookies are shared between the browser and non-browser



applications?

- A. The time zone should be the same on the NetScaler, client, and SharePoint server.
- B. The SharePoint load-balancing VIP FQDN and the AAA VIP FQDN should be in the trusted site of the client browser.
- C. The Secure flag must be enabled on the cookie.
- D. The cookie type should be HttpOnly.

Correct Answer: B

Reference: <https://support.citrix.com/article/CTX209054>

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## QUESTION 5

Scenario: A Citrix Architect has set up NetScaler MPX devices in high availability mode with version 12.0.

53.13 nc. These are placed behind a Cisco ASA 5505 Firewall is configured to block traffic using access control lists. The network address translation (NAT) is also performed on the firewall.

The following requirements were captured by the architect during the discussion held as part of the NetScaler security implementation project with the customer's security team:

The NetScaler device:

1.

Should monitor the rate of traffic either on a specific virtual entity or on the device. It should be able to mitigate the attacks from a hostile client sending a flood of requests. The NetScaler device should be able to stop the HTTP, TCP, and DNS based requests.

2.

Needs to protect backend servers from overloading.

3.

Needs to queue all the incoming requests on the virtual server level instead of the service level.

4.

Should provide access to resources on the basis of priority.

5.

Should provide protection against well-known Windows exploits, virus-infected personal computers, centrally managed automated botnets, compromised web servers, known spammers/hackers, and phishing

proxies.

6.

Should provide flexibility to enforce the desired level of security check inspections for the requests originating from a specific geolocation database.



7.

Should block the traffic based on a pre-determined header length, URL length, and cookie length. The device should ensure that characters such as a single straight quote (\*); backslash(\), and semicolon (;) are either blocked, transformed, or dropped while being sent to the backend server.

Which two security features should the architect configure to meet these requirements? (Choose two.)

- A. Pattern sets
- B. Rate limiting
- C. HTTP DDOS
- D. Data sets
- E. APPQOE

Correct Answer: BE

Reference: <https://docs.citrix.com/en-us/citrix-adc/12-1/appexpert/appqoe.html> <https://docs.citrix.com/en-us/citrix-adc/12-1/appexpert/rate-limiting.html>

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#### QUESTION 6

Which NetScaler Management and Analytics System (NMAS) utility can a Citrix Architect utilize to verify the configuration template created by the NMAS StyleBook, before actually executing it on the NetScaler?

- A. Dry Run
- B. configpack
- C. NITRO API
- D. configcheck

Correct Answer: A

Reference: <https://docs.citrix.com/en-us/netscaler-mas/12/stylebooks/how-to-use-user-defined-stylebooksin-mas.html>

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#### QUESTION 7

Scenario: More than 10,000 users will access a customer's environment. The current networking infrastructure is capable of supporting the entire workforce of users. However, the number of support staff is limited, and management needs to ensure that they are capable of supporting the full user base.

Which business driver is prioritized, based on the customer's requirements?

- A. Simplify Management
- B. Increase Scalability
- C. Increase Flexibility



- D. Reduce Costs
- E. Enable Mobile Work Styles
- F. Increase Security

Correct Answer: A

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### QUESTION 8

Scenario: A Citrix Architect and a team of Workspacelab members have met for a design discussion about the NetScaler Design Project. They captured the following requirements:

1.  
Two pairs of NetScaler MPX appliances will be deployed in the DMZ network and the internal network.
2.  
High availability will be accessible between the pair of NetScaler MPX appliances in the DMZ network.
3.  
Multi-factor authentication must be configured for the NetScaler Gateway virtual server.
4.  
The NetScaler Gateway virtual server is integrated with XenApp/XenDesktop environment.
5.  
Load balancing must be deployed for the users from the workspacelab.com and vendorlab.com domains.
6.  
The logon page must show the workspacelab logo.
7.  
Certificate verification must be performed to identify and extract the username.
8.  
The client certificate must have UserPrincipalName as a subject.
9.  
All the managed workstations for the workspace users must have a client identifications certificate installed on it.
10. The workspacelab users connecting from a managed workstation with a client certificate on it should be



- authenticated using LDAP. 11.The workspacelab users connecting from a workstation without a client certificate should be authenticated using LDAP and RADIUS.
- 12.The vendorlab users should be authenticated using Active Directory Federation Service.
- 13.The user credentials must NOT be shared between workspacelab and vendorlab.
- 14.Single Sign-on must be performed between StoreFront and NetScaler Gateway.
- 15.A domain drop down list must be provided if the user connects to the NetScaler Gateway virtual server externally.
- 16.The domain of the user connecting externally must be identified using the domain selected from the domain drop down list.

On performing the deployment, the architect observes that users are always prompted with two-factor authentication when trying to assess externally from an unmanaged workstation.

Click the exhibit button to view the configuration.



```
> show authentication vserver aaa_dmz_001
aaa_dmz_001 (192.168.30.131:443) - SSL Type: CONTENT
State: UP
Client Idle Timeout: 180 sec
Down state flush: DISABLED
Disable Primary Vserver On Down : DISABLED
Network profile name: ???
Appflow logging: ENABLED
Authentication : ON
Device Certificate Check: ???
Device Certificate CA List: ???
CGInfra Homepage Redirect : ???
Current AAA Sessions: 0
Total Connected Users: 0
Dtls : ???      L2Conn: ???
RDP Server Profile Name: ???
Max Login Attempts: 0      Failed Login Timeout 0
Fully qualified domain name: ???
PCoIP VServer Profile name: ???
Listen Policy: NONE
Listen Priority: 0
IcmpResponse: ???
RHlstate: ???
Traffic Domain: 0

1)  LoginSchema Policy Name: LDAP_RADIUS      Priority: 100
    GotoPriority Expression: END

1)  Advanced Authentication Policy Name: cert-upn  Priority: 100
    GotoPriority Expression: NEXT
    NextFactor name: OnlyLDAP

2)  Advanced Authentication Policy Name: No_AUTH  Priority: 110
    GotoPriority Expression: NEXT
    NextFactor name: ldap-radius

3)  Advanced Authentication Policy Name: saml-upn  Priority: 120
    GotoPriority Expressions: NEXT

Done
```

What should the architect do to correct this configuration?

A. Unbind LoginSchema Policy LDAP\_RADIUS from the virtual server.





- B. Bind the Portal theme as Domaindropdown.
- C. Bind the LoginSchema Policy Domaindropdown to priority 90.
- D. Bind the Default LoginSchema Policy as Domaindropdown.

Correct Answer: D

## QUESTION 9

Scenario: A Citrix Architect has deployed two MPX devices, 12.0.53.13 nc and MPX 11500 models, in high availability (HA) pair for the Workspace labs team. The deployment method is two-arm and the devices are installed behind a CISCO ASA 5585 Firewall. The architect enabled the following features on the NetScaler devices. Content Switching, SSL Offloading, Load Balancing, NetScaler Gateway, Application Firewall in hybrid security and Appflow. All are enabled to send monitoring information to NMAS 12.0.53.13 nc build. The architect is preparing to configure load balancing for Microsoft Exchange 2016 server.

The following requirements were discussed during the implementation:

1.

All traffic needs to be segregated based on applications, and the fewest number of IP addresses should be utilized during the configuration

2.

All traffic should be secured and any traffic coming into HTTP should be redirected to HTTPS.

3.

Single Sign-on should be created for Microsoft Outlook web access (OWA).

4.

NetScaler should recognize Uniform Resource Identifier (URI) and close the session to NetScaler when users hit the Logoff button in Microsoft Outlook web access.

5.

Users should be able to authenticate using either user principal name (UPN) or sAMAccountName.

6.

The Layer 7 monitor should be configured to monitor the Microsoft Outlook web access servers and the monitor probes must be sent on SSL

Which monitor will meet these requirements?

- A. add lb monitor mon\_rpc HTTP-ECV -send "GET /rpc/healthcheck.htm" recv 200 -LRTM DISABLED
- B. add lb monitor mon\_rpc HTTP-ECV -send "GET /rpc/healthcheck.htm" recv 200 -LRTM ENABLED
- C. add lb monitor mon\_rpc HTTP -send "GET /rpc/healthcheck.htm" recv 200 -LRTM DISABLED -secure YES
- D. add lb monitor mon\_rpc HTTP-ECV -send "GET/rpc/healthcheck.htm" recv 200 -LRTM DISABLED secure YES



Correct Answer: A

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### QUESTION 10

Scenario: A Citrix Architect has sent the following request to the NetScaler: Which response would indicate the successful execution of the NITRO command?

HTTP Method

POST

URL

`http://<netscaler-ip-address>/nitro/v1/config?clusterinstance`

Requests Headers

Cookie:NITRO\_AUTH\_TOKEN=<tckenvalue>

Content-Type:application

Request Payload

```
{
  "clusterinstance":
  {
    "cid":1,
    "preemption":"ENABLED"
  }
}
```

- A. 302
- B. 201
- C. 202
- D. 200

Correct Answer: D

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### QUESTION 11

Scenario: A Citrix Architect needs to design a hybrid XenApp and XenDesktop environment which will include as well as resource locations in an on-premises datacenter and Microsoft Azure.

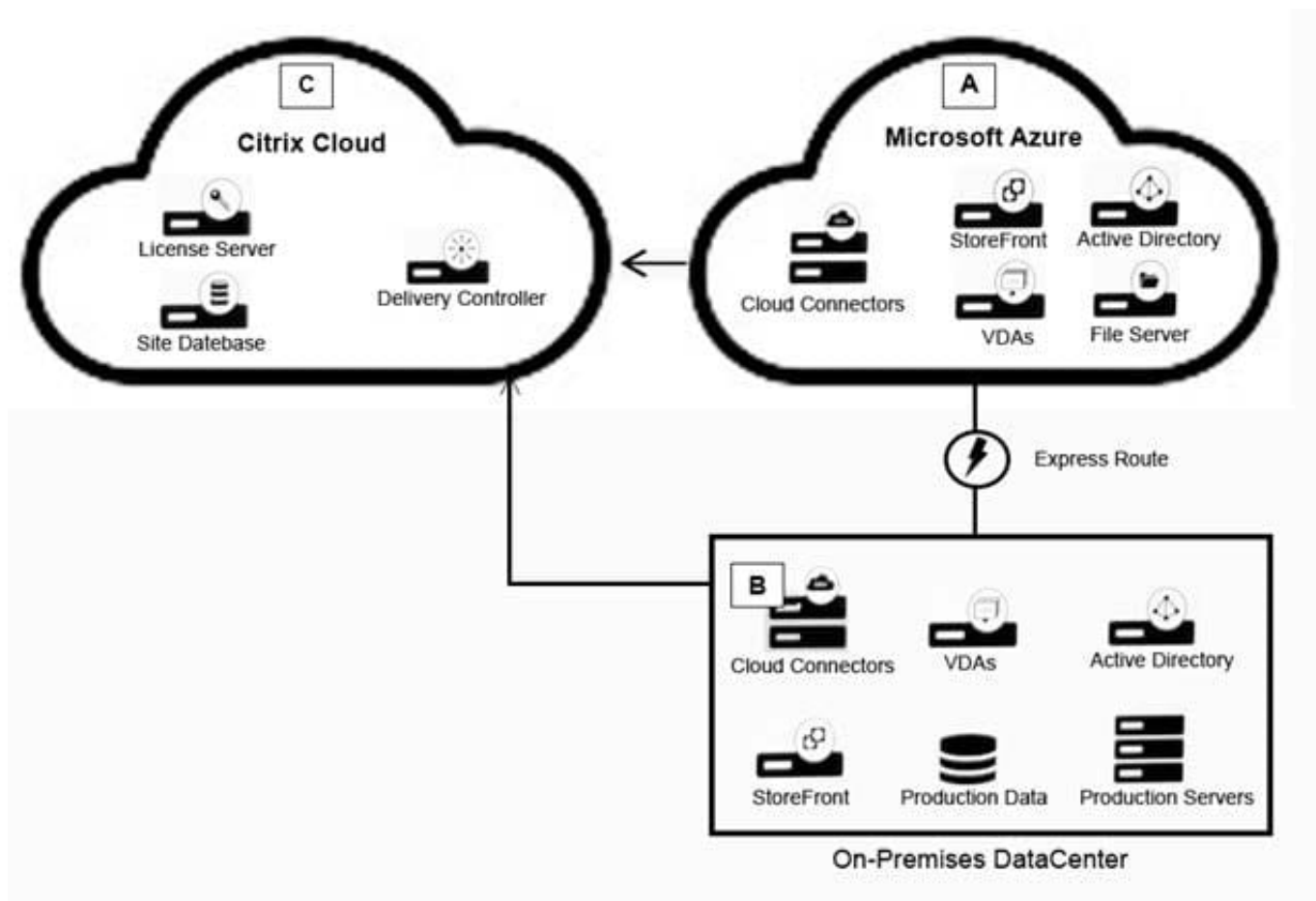
Organizational details and requirements are as follows:

1.

Active XenApp and XenDesktop Service subscription



2.  
No existing NetScaler deployment
  3.  
Minimization of additional costs
  4.  
All users should connect directly to the resource locations containing the servers which will host HDX sessions
- Click the Exhibit button to view the conceptual environment architecture.



The architect should use \_\_\_\_\_ in Location A, and should use \_\_\_\_\_ in Location B. (Choose the correct option to complete the sentence.)

- A. No NetScaler products; NetScaler ICA Proxy (cloud-licensed)
- B. NetScaler Gateway as a Service; NetScaler ICA Proxy (cloud-licensed)
- C. NetScaler Gateway as a Service; no NetScaler products
- D. No NetScaler products; NetScaler Gateway appliance
- E. NetScaler gateway as a Service; NetScaler ADC (BYO)



Correct Answer: C

### QUESTION 12

Scenario: A Citrix Architect needs to design a hybrid XenApp and XenDesktop environment which will include Citrix Cloud as well as resource locations in an on-premises datacenter and Microsoft Azure.

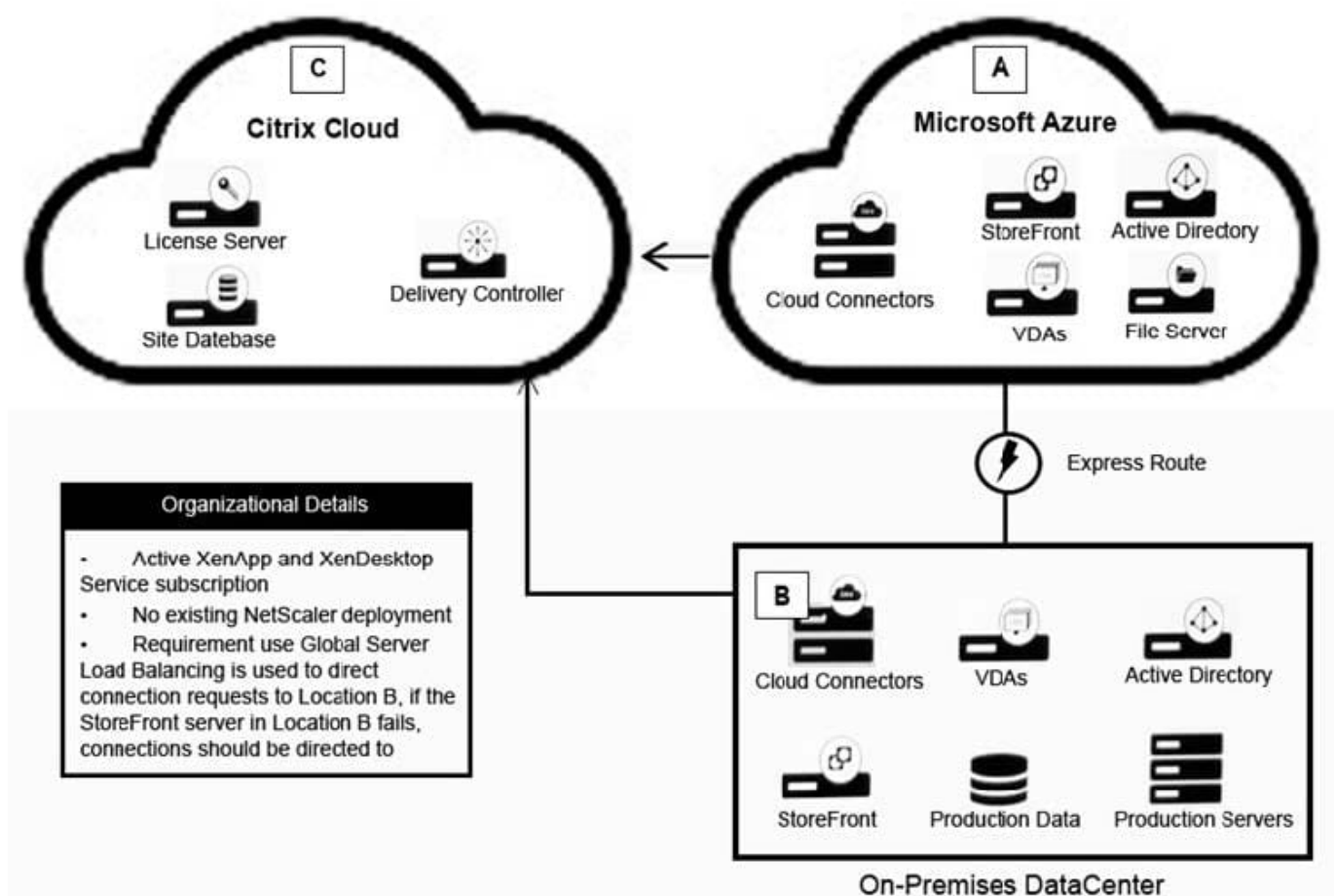
Organizational details and requirements are as follows:

1.  
Active XenApp and XenDesktop Service subscription

2.  
No existing NetScaler deployment

3.  
Global Server Load Balancing is used to direct connection requests to Location B, if the StoreFront server in Location B fails, connections should be directed to Location A.

Click the Exhibit button to view the conceptual environment architecture.





The architect should use \_\_\_\_\_ in Location A, and should use \_\_\_\_\_ in Location B. (Choose the correct option to complete the sentence.)

- A. NetScaler ADC (BYO); NetScaler gateway appliance
- B. NetScaler ADC (BYO); No NetScaler products
- C. NetScaler ADC (BYO); NetScaler ADC (BYO)
- D. NetScaler Gateway appliance; NetScaler Gateway appliance
- E. NetScaler Gateway appliance; NetScaler ADC (BYO)

Correct Answer: B

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### QUESTION 13

Scenario: A Citrix Architect has deployed an authentication setup with a ShareFile load-balancing virtual server. The NetScaler is configured as the Service Provider and Portalguard server is utilized as the SAML Identity Provider. While performing the functional testing, the architect finds that after the users enter their credentials on the logon page provided by Portalguard, they get redirected back to the Netscaler Gateway page at uri /cgi/samlauth/ and receive the following error.

"SAML Assertion verification failed; Please contact your administrator."

The events in the /var/log/ns.log at the time of this issue are as follows:

```
Feb 23 20:35:21 10.148.138.5 23/02/2018:20:35:21 GMT vorsb1 0-PPE-0 : default AAATM
```

```
Message 3225369 0 : "SAML : ParseAssertion:
```

```
parsed attribute NameID, value is nameid"
```

```
Feb 23 20:35:21 10.148.138.5 23/02/2018:20:35:21 GMT vorsb1 0-PPE-0 : default AAATM
```

```
Message 3225370 0 : "SAML verify digest:
```

```
algorithms differ, expected SHA1 found SHA256"
```

```
Feb 23 20:35:44 10.148.138.5 23/02/2018:20:35:44 GMT vorsb1 0-PPE-0 : default AAATM
```

```
Message 3225373 0 : "SAML : ParseAssertion:
```

```
parsed attribute NameID, value is named
```

```
Feb 23 20:35:44 10.148.138.5 23/02/2018:20:35:44 GMT vorsb1 0-PPE-0 : default AAATM
```

```
Message 3225374 0 : "SAML verify digest:
```

```
algorithms differ, expected SHA1 found SHA256"
```



Feb 23 20:37:55 10.148.138.5 23/02/2018:20:37:55 GMT vorsb1 0-PPE-0 : default AAATM

Message 3225378 0 : "SAML : ParseAssertion:

parsed attribute NameID, value is nameid"

Feb 23 20:37:55 10.148.138.5 23/02/2018:20:37:55 GMT vorsb1 0-PPE-0 : default AAATM

Message 3225379 0 : "SAML verify digest:

algorithms differ, expected SHA1 found SHA256"

What should the architect change in the SAML action to resolve this issue?

- A. Signature Algorithm to SHA 256
- B. The Digest Method to SHA 256
- C. The Digest Method to SHA 1
- D. Signature Algorithm to SHA 1

Correct Answer: D

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#### QUESTION 14

Scenario: A Citrix Architect and a team of Workspacelab members met to discuss a NetScaler design project. They captured the following requirements from this design discussion:

1.  
A pair of NetScaler MPX appliances will be deployed in the DMZ network.
2.  
High Availability will be accessible in the NetScaler MPX in the DMZ Network.
3.  
Load balancing should be performed for the internal network services like Microsoft Exchange Client Access Services and Microsoft App-V.
4.  
The load balancing should be performed for StoreFront.
5.  
The NetScaler Gateway virtual server will be utilizing the StoreFront load-balancing virtual server.
6.  
The NetScaler Gateway virtual server and StoreFront.
- 7.

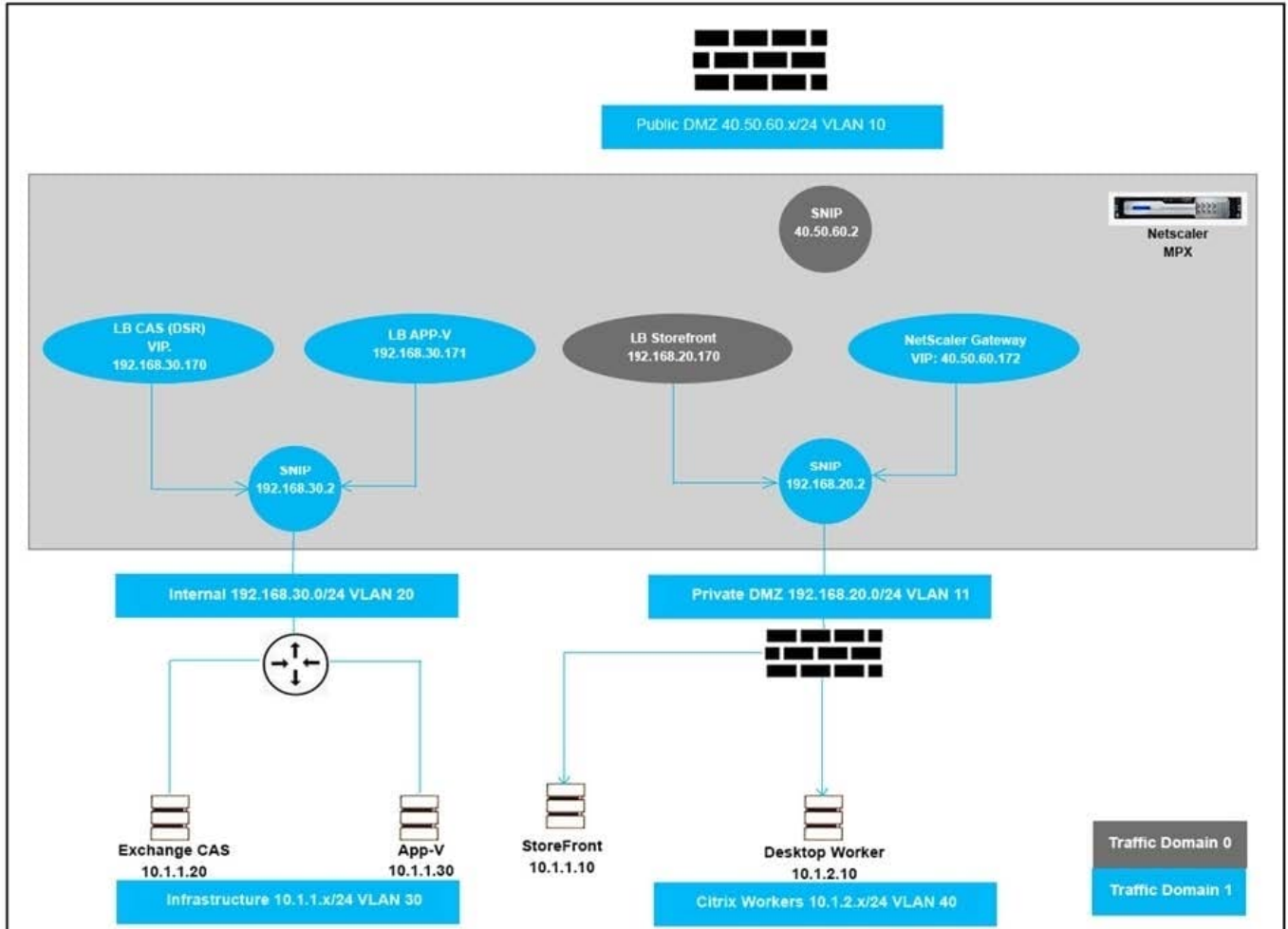


The NetScaler Gateway virtual service and StoreFront and load-balancing services are publicly accessible.

8.

The traffic for internal and external services must be isolated.

Click the Exhibit button to review the logical network diagram.



Which two design decisions are incorrect based on these requirements? (Choose two.)

- A. LB StoreFront bound to traffic Domain 0
- B. NetScaler Gateway VIP bound to Traffic Domain 1
- C. LB APP-V bound to Traffic Domain 1
- D. SNIP 192.168.20.2 bound to Traffic Domain 1

Correct Answer: AB

### QUESTION 15

A Citrix Architect needs to define the architect and operational processes required to implement and maintain the



production environment.

In which phase of the Citrix Methodology will the architect define this?

- A. Define
- B. Deploy
- C. Assess
- D. Review
- E. Manage
- F. Design

Correct Answer: F

Reference: <https://www.slideshare.net/davidmcbg/designing-your-xenapp-75-environment>

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