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Architecting a Citrix Networking Solution

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QUESTION 1

Which request can a Citrix Architect utilize to create a NITRO API command to add a NetScaler appliance with NSIP address 10.102.29.60 to the cluster?

- A. HTTP Method POST
URL: `http://<netscaler-ip-address>/nitro/v1/config/clustermode`
Request Headers
Cookie: `NITRO_AUTH_TOKEN=<tokenvalue>`
Content-Type: `application/json`
Request Payload
{
 "clusternode":
 {
 "nodeid".1,
 "ipaddress"."10.102.29.60",
 "state"."ACTIVE",
 "backplane"."1/1/2"
 }
}
- B. HTTP Method PUT
URL: `http://<netscaler-ip-address>/nitro/v1/config/clustermode`
Request Headers
Content-Type: `text/yaml`
Request Payload
{
 "clusternode":
 {
 "nodeid".1,
 "ipaddress"."10.102.29.60",
 "state"."ACTIVE",
 "backplane"."1/1/2"
 }
}



C. HTTP Method POST

URL: `http://<netscaler-ip-address>/nitro/v1/config/clustermode`

Request Headers

Content-Type: `application/text`

Request Payload

```
{
  "clusternode":
  {
    "nodeid".1,
    "ipaddress"."10.102.29.60",
    "state"."ACTIVE",
    "backplane"."1/1/2"
  }
}
```

D. HTTP Method PUT

URL: `http://<netscaler-ip-address>/nitro/v1/config/clustermode`

Request Headers

Cookie NITRO_AUTH_TOKEN=<tokenvalue>

Content-Type: `application/json`

Request Payload

```
{
  "clusternode":
  {
    "nodeid".1,
    "ipaddress"."10.102.29.60",
    "state"."ACTIVE",
    "backplane"."1/1/2"
  }
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

Reference: <https://developer-docs.citrix.com/projects/netscaler-nitro-api/en/12.0/usecases/>

QUESTION 2

Scenario: Based on a discussion between a Citrix Architect and a team of Workspacelab members, the MPX Logical layout for Workspacelab has been created across three (3) sites.



They captured the following requirements during the design discussion held for a NetScaler design project:

1.

All three (3) Workspacelab sites (DC, NDR, and DR) will have similar NetScaler configurations and design.

2.

Both external and internal NetScaler MPX appliances will have Global Server Load Balancing (GSLB) configured and deployed in Active/Passive mode.

3.

GSLB should resolve both A and AAA DNS queries.

4.

In the GSLB deployment, the NDR site will act as backup for the DC site, whereas the DR site will act as backup for the NDR site.

5.

When the external NetScaler replies to DNS traffic coming in through Cisco Firepower IPS, the replies should be sent back through the same path.

6.

On the internal NetScaler, both the front-end VIP and backend SNIP will be part of the same subnet.

7.

The external NetScaler will act as default gateway for the backend servers.

8.

All three (3) sites, DC, NDR, and DR, will have two (2) links to the Internet from different service providers configured in Active/Standby mode.

Which design decision must the architect make the design requirements above?

A. MAC-based Forwarding must be enabled on the External NetScaler Pair.

B. NSIP of the External NetScaler must be configured as the default gateway on the backend servers.

C. The Internal NetScaler must be deployed in Transparent mode.

D. The ADNS service must be configured with an IPv6 address.

Correct Answer: C

QUESTION 3

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 webservers, 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>

QUESTION 4

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

QUESTION 5

Scenario: A Citrix Architect is asked by management at the Workslab organization to review their existing configuration and make the necessary upgrades. The architect recommends small changes to the preexisting NetScaler configuration. Currently, the NetScaler MPX devices are configured in a high availability pair, and the outbound traffic is load-balanced between two Internet service providers (ISPs). However, the failover is NOT happening correctly.

The following requirements were discussed during the design requirements phase:

1.
The return traffic for a specific flow should be routed through the same path while using Link Load Balancing.
2.
The link should fail over if the ISP router is up and intermediary devices to an ISP router are down.
3.
Traffic going through one ISP router should fail over to the secondary ISP, and the traffic should NOT flow through both routers simultaneously.

What should the architect configure with Link Load balancing (LLB) to meet this requirement?

- A. Net Profile
- B. Mac-based forwarding option enabled.



C. Resilient deployment mode

D. Backup route

Correct Answer: D

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