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4A0-M02

Alcatel-Lucent Mobile Gateways for the LTE Evolved Packet Core



Which of the following interfaces is not using the GTP-U protocol?

- A. The X2 interface
- B. The S1-U interface
- C. The S4 interface
- D. The S5 interface
- E. The SGi interface

Answer: E

QUESTION: 126

When a UE is roaming, which of the following interfaces is used when the visiting SGW needs to communicate with the UE's home PGW?

- A. The S1 interface.
- B. The S5 interface.
- C. The S8 interface.
- D. The S10 interface.
- E. The SGi interface.

Answer: C

QUESTION: 127

Which of the following statements is FALSE regarding the EPS bearers?

- A. An EPS bearer is either a GBR bearer or a Non-GBR bearer.
- B. An EPS bearer is either a default bearer or a dedicated bearer.
- C. A dedicated bearer can be a GBR or a Non-GBR bearer.
- D. A default bearer can be a GBR or a Non-GBR bearer.
- E. A UE can have multiple GBR or Non-GBR bearers.

Answer: D

QUESTION: 128

On Alcatel-Lucent 7750 SGW, which of the following CLI commands is used to obtain the output displayed in the exhibit?

```

=====
Peer address : 10.10.10.5
Router       : Base
Port        : 2123      Chassis/Card       : 1/2

Create session requests : 6      Create session responses : 6
Delete session requests : 4      Delete session responses : 4
Create bearer requests  : 0      Create bearer responses  : 0
Delete bearer requests  : 1      Delete bearer responses  : 1
Update bearer requests  : 0      Update bearer responses  : 0
Modify bearer requests  : 0      Modify bearer responses  : 0
Malformed packets Rx   : 0      Unknown message pkts Rx : 0
Modify bearer commands  : 0      Modify bearer fail ind   : 0
Delete bearer commands  : 0      Delete bearer fail ind   : 0
Missing mand IE pkts Rx : 0
Bearer resource commands : 0      Bearer resource fail ind : 0
-----
Peer address : 10.10.10.5
Router       : Base
Port        : 2123      Chassis/Card       : 1/A

Create session requests : 0      Create session responses : 0
Delete session requests : 0      Delete session responses : 0
Create bearer requests  : 0      Create bearer responses  : 0
Delete bearer requests  : 0      Delete bearer responses  : 0
Update bearer requests  : 0      Update bearer responses  : 0
Modify bearer requests  : 0      Modify bearer responses  : 0
Malformed packets Rx   : 0      Unknown message pkts Rx : 0
Modify bearer commands  : 0      Modify bearer fail ind   : 0
Delete bearer commands  : 0      Delete bearer fail ind   : 0
Missing mand IE pkts Rx : 0
Bearer resource commands : 0      Bearer resource fail ind : 0
-----
Number of peer instances : 2

```

- A. Show mobile-gateway serving ref-point-stats s11
- B. Show mobile-gateway serving ref-point-stats s5
- C. Show mobile-gateway serving ref-point-stats s11 instance
- D. Show mobile-gateway serving ref-point-stats s5 instance

Answer: D

QUESTION: 129

In an LTE network, which of the following is used to carry the GTP message "Create Session Request"?

- A. The GTPv1 protocol.
- B. The GTPv2 protocol.
- C. Both the GTPv1 and the GTPv2 protocols.
- D. Either the GTFV1 protocol or the GTPv2 protocol.
- E. None of the above answers are correct.

Answer: B

QUESTION: 130

Based on the information shown in the exhibit, when the SGW sends a "Create Session Request" message to the PGW, which of the following is the source IP address expected in the IP packet?



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```

*A:SGW>config>router># info
#-----
echo "IP Configuration"
#-----
    interface "int-s11-slu"
        address 10.10.2.1/24
        port 1/1/2
    exit
    interface "int-s5"
        address 10.10.7.1/24
        port 1/1/1
    exit
    interface "int-s5-2"
        address 20.20.0.1/24
        port 1/1/5
    exit
    interface "system"
        address 72.22.24.163/32
    exit
#-----

*A:SGW# configure mobile-gateway serving 1
*A:SGW>config>mobile>serving# info
#-----
    apn "default"
    exit
    kpi-kci
    exit
    signaling
        diameter
            profile "default"
        exit
        interface "system"
    exit
    s11
        interface
            gtp-c "int-s11-slu"
        exit
    exit
    s5
        interface
            gtp-c "int-s5"
            gtp-u "int-s5"
        exit
    exit
    no shutdown
#-----

```

- A. 10.10.2.1
- B. 10.10.7.1
- C. 20.20.0.1
- D. 72.22.24.163
- E. None of the above answers are correct

Answer: B

QUESTION: 131

On the Alcatel-Lucent 7750 MG, which of the following is the CLI command to check the active / standby state of the MG-ISM cards?

- A. Show card detail
- B. Show mda detail
- C. Show card state
- D. Show system information
- E. Show mobile-gateway system

Answer: E

QUESTION: 132

Which of the following statements is FALSE regarding the UE attachment procedure?

- A. As a result of this procedure, a default bearer must be established
- B. As a result of this procedure, a dedicated bearer must be established
- C. As a result of this procedure, the UE is registered with the network
- D. As a result of this procedure, the UE is authenticated by the network
- E. As a result of this procedure, the UE has an IP connectivity to an APN

Answer: B

QUESTION: 133

Which of the following statements is FALSE regarding the UE mobility?

- A. While in idle state, the UE mobility can trigger a handover.
- B. While in idle state, the UE mobility can trigger a tracking area update.
- C. While in connected state, the UE mobility can trigger a handover.
- D. While in connected state, the UE mobility can trigger a tracking area update.
- E. None of the above statements are false.

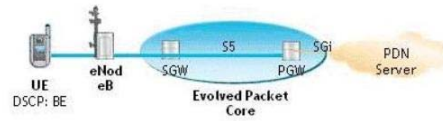
Answer: A

QUESTION: 134

A UE is exchanging best-effort (BE) IP traffic with a PDN server over an EPS bearer with a QCI/ARP value of 9/12. Based on the information shown in the exhibit, what is the DSCP value of traffic egressing the S5 interface of the PGW to the SGW?


```
*A:PGW>config>mobile# info
```

```
-----
profile
  diameter-peer "diam-peer-1"
    application-type gx
    destination-realm "lucent.com"
    diameter-profile "default"
    interface "int-gx"
    peer 10.10.5.2 port 3868
    no shutdown
  exit
exit
policy-options
  qci-policy "dl-qci-pl"
    qci 9 arp 12
    dscp ef
    no dscp-preserve
    fc "ef"
    profile in
  exit
  qci-policy "ul-qci-pl"
    qci 9 arp 12
    dscp af21
    no dscp-preserve
    profile out
  exit
exit
exit
pdn 1
  apn "ipd.alcatel-lucent.com"
  pcrf-selection
    dynamic-pcc
  exit
  ip-alloc-method local-pool
  pdn-type ipv4
  pdn-type ipv6
  pdn-type ipv4v6
  qci-policy uplink "ul-qci-pl" downlink "dl-qci-pl"
  router "Base"
  ip-local-pool "ipdpool"
  exit
  selection-mode subscribed-apn
  no shutdown
exit
<Output continued in the right window>
```



```
signaling
  diameter
    origin-host "diam.origRealm.com"
    origin-realm "origRealm.com"
    profile "default"
  exit
  interface "system"
  exit
  kpi-kci
  exit
  gx
    pcrf-selection
      primary-diameter-peer "diam-peer-1"
    exit
  exit
  s5
    interface "int-s5"
      gtp-c "int-s5"
      gtp-u "int-s5"
    exit
  exit
  no shutdown
exit
system
  group 1 redundancy one-to-one gateway 1
  card 2 working
exit
exit
```

- A. BE
- B. EF
- C. AF21
- D. NC
- E. None of the above answers are correct

Answer: B

QUESTION: 135

Which of the following statements is FALSE regarding the PGW?

- A. The PGW terminates the IP sessions from a UE.
- B. The PGW enforces PCC rules and QoS policies.
- C. The PGW may provide gating control for user traffic.
- D. A UE may be served by only one PGW.
- E. A UE may receive more than one IP address from the PGW.

Answer: D

QUESTION: 136

A UE needs to get an IP address before it can communicate to any PDN over the LTE network. Which of the following statements most accurately describes the process of the IP address allocation?

- A. A UE may obtain an IP address during the PDN connection setup.
- B. A PGW may assign the IP address from its local address pools.
- C. A PGW may obtain an IP address from a RADIUS server and assign it to the UE.
- D. A PGW may obtain an IP address from a DHCP server and assign it to the UE.
- E. All of the above answers are correct.

Answer: E

QUESTION: 137

Based on the information shown in the exhibit, how many EPS bearers has the PGW created in total for all UEs?

```
A:PGW# show mobile-gateway pdn bearer-context
```

=====						
Bearer context						
=====						
IMSI	APN	Bearer	Type	QCI/ARP	MBR/GBR	SDFs

302720123456791	ipd.alcatel	5	Def	9/12	-	0
302720123456791	ipd.alcatel	6	Ded	2/2	30000/20000	1
302720123456790	ipd.alcatel	5	Def	9/12	-	0
302720123456790	ipd.alcatel	6	Ded	2/2	30000/20000	1
302720123456789	ipd.alcatel	5	Def	9/12	-	0
302720123456789	ipd.alcatel	6	Ded	2/2	30000/20000	1

- A. 6
- B. 5
- C. 4
- D. 3
- E. 2
- F. 1

Answer: A

QUESTION: 138

Based on the information shown in the exhibit, which of the following is the time interval used by the SGW to send out an "Echo Request" message over the S11 interface?

- A. 130 seconds
- B. 90 seconds
- C. 60 seconds

- D. 8 seconds
- E. 4 seconds

Answer: C

QUESTION: 139

On the Alcatel-Lucent 7750 PGW, which of the following is the CLI command to check the statistics of the "Create Session Request" / "Create Session Response" messages?

- A. Show mobile-gateway pdn ref-point-peers gx
- B. Show mobile-gateway pdn ref-point-peers s5
- C. Show mobile-gateway pdn ref-point-stats ga
- D. Show mobile-gateway pdn ref-point-stats s5
- E. None of the above answers are correct.

Answer: D

QUESTION: 140

On Alcatel-Lucent 7750 PGW, which of the following statements is FALSE regarding the debugging of a given IMSI?

- A. The output may be filtered per bearer.
- B. The APN value must be specified in the debug command.
- C. A log must be created to view the debug output.
- D. The output may be filtered per APN and per reference point.
- E. None of the above statements are false.

Answer: D



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