350-901 Q&As

Developing Applications Using Cisco Core Platforms and APIs (DEVCOR)

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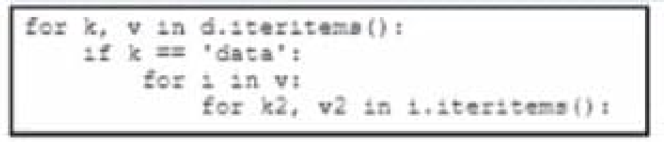
QUESTION 1

Refer to the exhibit.



```
for k, v in d.iteritems():
    if k == 'data':
        for i in v:
            for k2, v2 in i.iteritems():
```

An application is created to serve an enterprise Based on use and department requirements, changes are requested quarterly. Which application design change improves code maintainability?

A. Use global variables

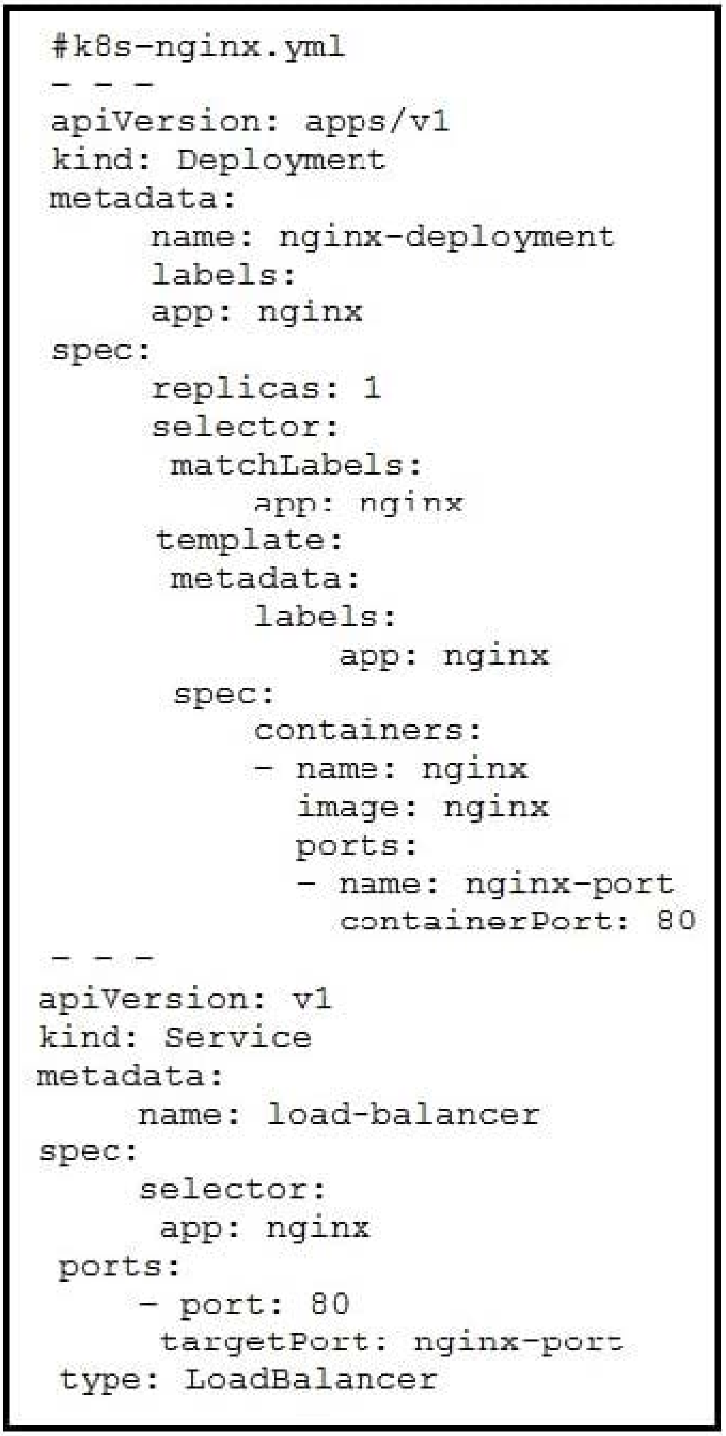
B. Use double quotes instead of single quotes to enclose variables

C. Use different indent levels for variables

D. Use more verbose names for variables

Correct Answer: D

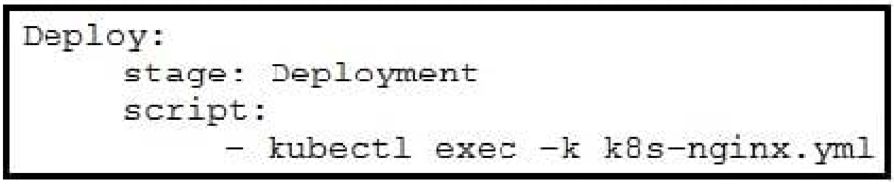
QUESTION 2



```
#k8s-nginx.yml
- - -
apiVersion: apps/v1
kind: Deployment
metadata:
     name: nginx-deployment
     labels:
     app: nginx
spec:
     replicas: 1
     selector:
      matchLabels:
          app: nginx
     template:
      metadata:
          labels:
              app: nginx
      spec:
          containers:
          - name: nginx
            image: nginx
            ports:
            - name: nginx-port
              containerPort: 80
- - -
apiVersion: v1
kind: Service
metadata:
     name: load-balancer
spec:
     selector:
      app: nginx
 ports:
     - port: 80
      targetPort: nginx-port
 type: LoadBalancer
```

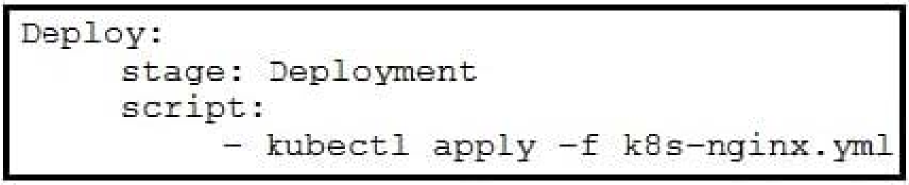
Refer to the exhibit. The presented application consists of a Nginx container and a load balancer service. Which GitLab CI/CD configuration implements the Kubernetes deployment?

A.



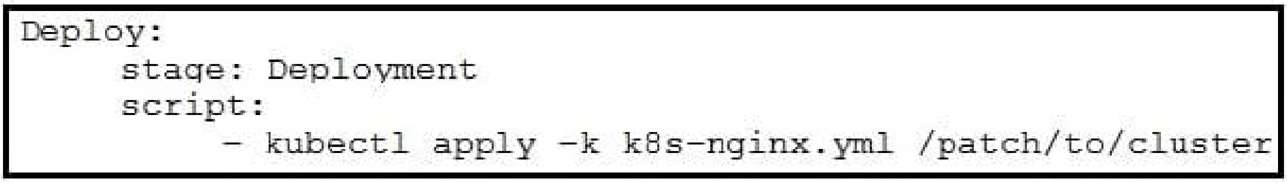
```
Deploy:
      stage: Deployment
      script:
            - kubectl exec -k k8s-nginx.yml
```

B.



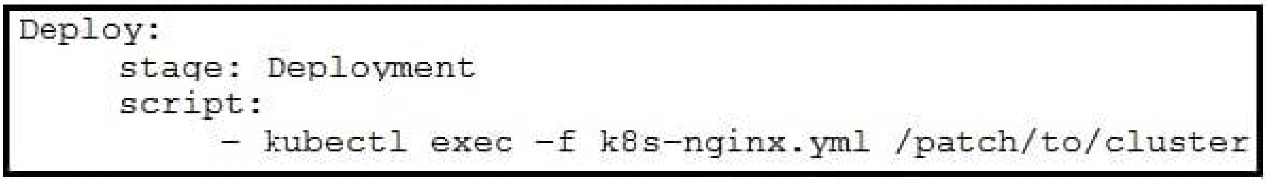
```
Deploy:
      stage: Deployment
      script:
            - kubectl apply -f k8s-nginx.yml
```

C.



```
Deploy:
      stage: Deployment
      script:
            - kubectl apply -k k8s-nginx.yml /patch/to/cluster
```

D.



```
Deploy:
      stage: Deployment
      script:
            - kubectl exec -f k8s-nginx.yml /patch/to/cluster
```

A. Option A

B. Option B

C. Option C

D. Option D

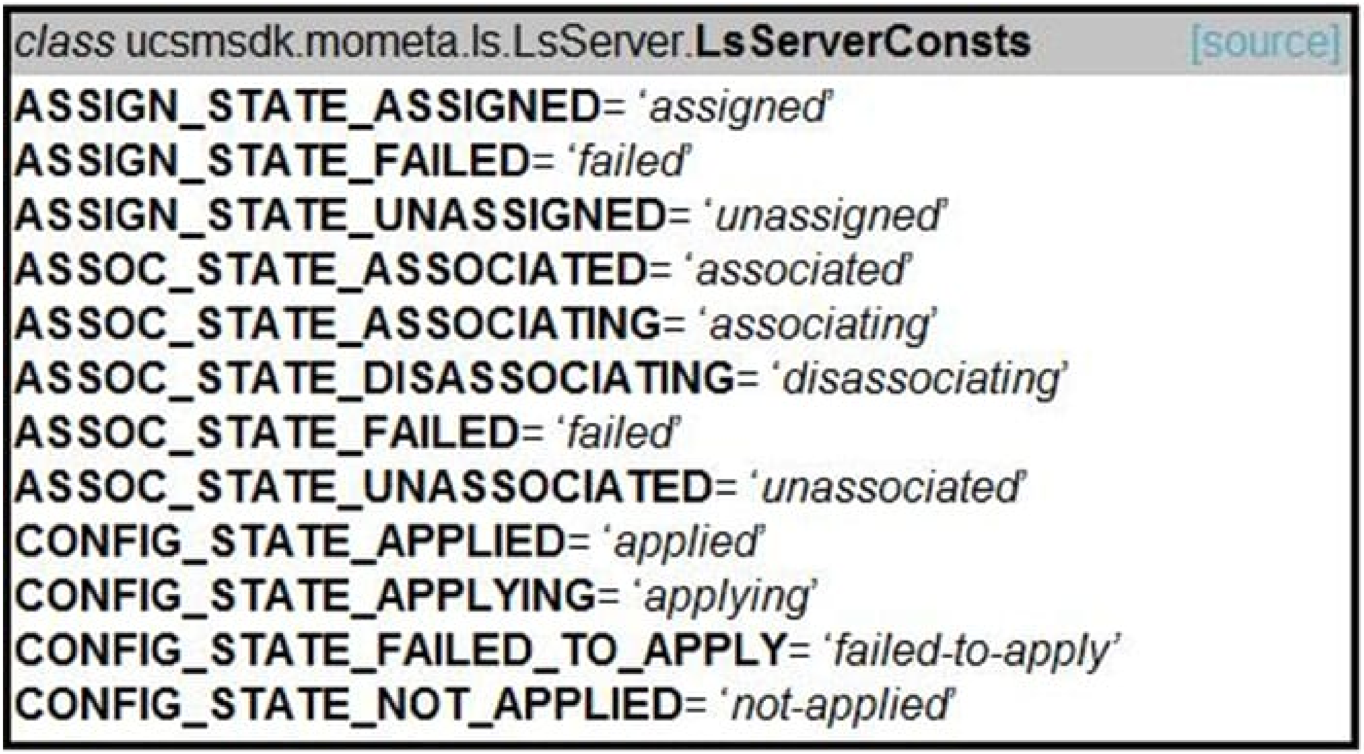
Correct Answer: B

Explanation: https://kubernetes.io/docs/reference/kubectl/kubectl/

QUESTION 3

DRAG DROP

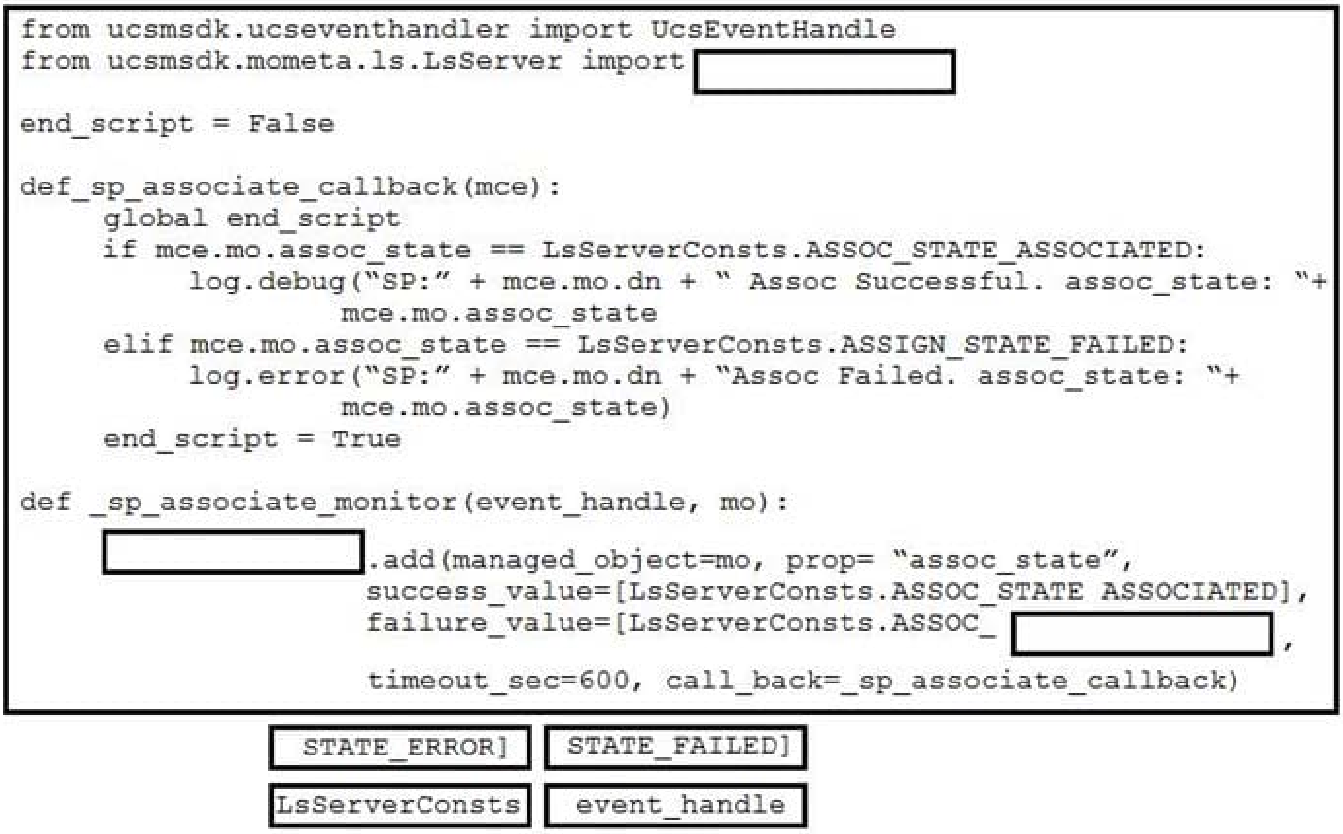
Refer to the exhibit. Drag and drop the code snippets from the bottom onto the blanks in the code to provision a new UCS server. Not all options are used.



class ucsmsdk.mometa.ls.LsServer.**LsServerConsts** [source]

ASSIGN_STATE_ASSIGNED= *'assigned'*
ASSIGN_STATE_FAILED= *'failed'*
ASSIGN_STATE_UNASSIGNED= *'unassigned'*
ASSOC_STATE_ASSOCIATED= *'associated'*
ASSOC_STATE_ASSOCIATING= *'associating'*
ASSOC_STATE_DISASSOCIATING= *'disassociating'*
ASSOC_STATE_FAILED= *'failed'*
ASSOC_STATE_UNASSOCIATED= *'unassociated'*
CONFIG_STATE_APPLIED= *'applied'*
CONFIG_STATE_APPLYING= *'applying'*
CONFIG_STATE_FAILED_TO_APPLY= *'failed-to-apply'*
CONFIG_STATE_NOT_APPLIED= *'not-applied'*

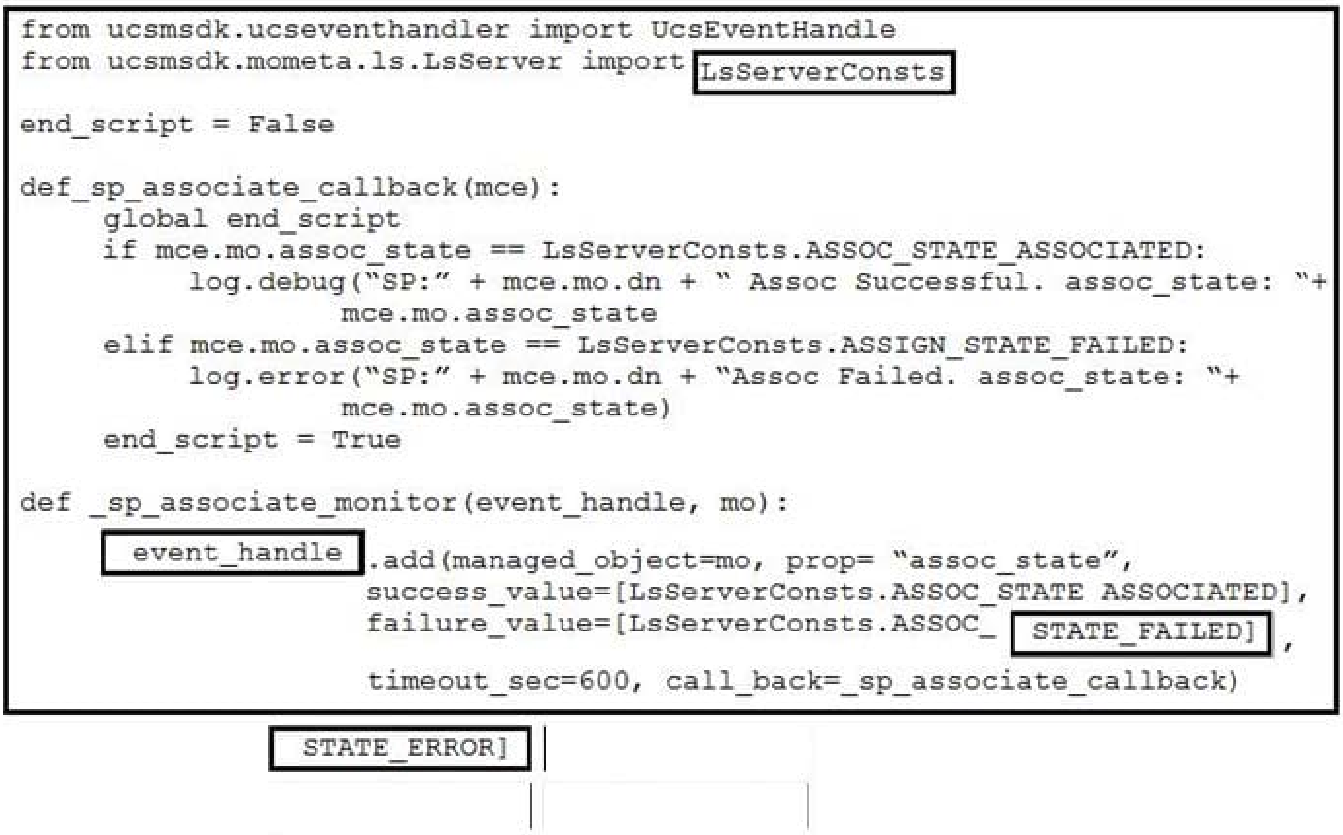
Select and Place:



```
from ucsmsdk.ucseventhandler import UcsEventHandle
from ucsmsdk.mometa.ls.LsServer import □

end_script = False

def_sp_associate_callback(mce):
     global end_script
     if mce.mo.assoc_state == LsServerConsts.ASSOC_STATE_ASSOCIATED:
          log.debug("SP:" + mce.mo.dn + " Assoc Successful. assoc_state: "+
                    mce.mo.assoc_state
     elif mce.mo.assoc_state == LsServerConsts.ASSIGN_STATE_FAILED:
          log.error("SP:" + mce.mo.dn + "Assoc Failed. assoc_state: "+
                    mce.mo.assoc_state)
     end_script = True

def _sp_associate_monitor(event_handle, mo):
     □ .add(managed_object=mo, prop= "assoc_state",
                    success_value=[LsServerConsts.ASSOC_STATE ASSOCIATED],
                    failure_value=[LsServerConsts.ASSOC_ □ ,
                    timeout_sec=600, call_back=_sp_associate_callback)
```

STATE_ERROR]   STATE_FAILED]
LsServerConsts   event_handle

Correct Answer:



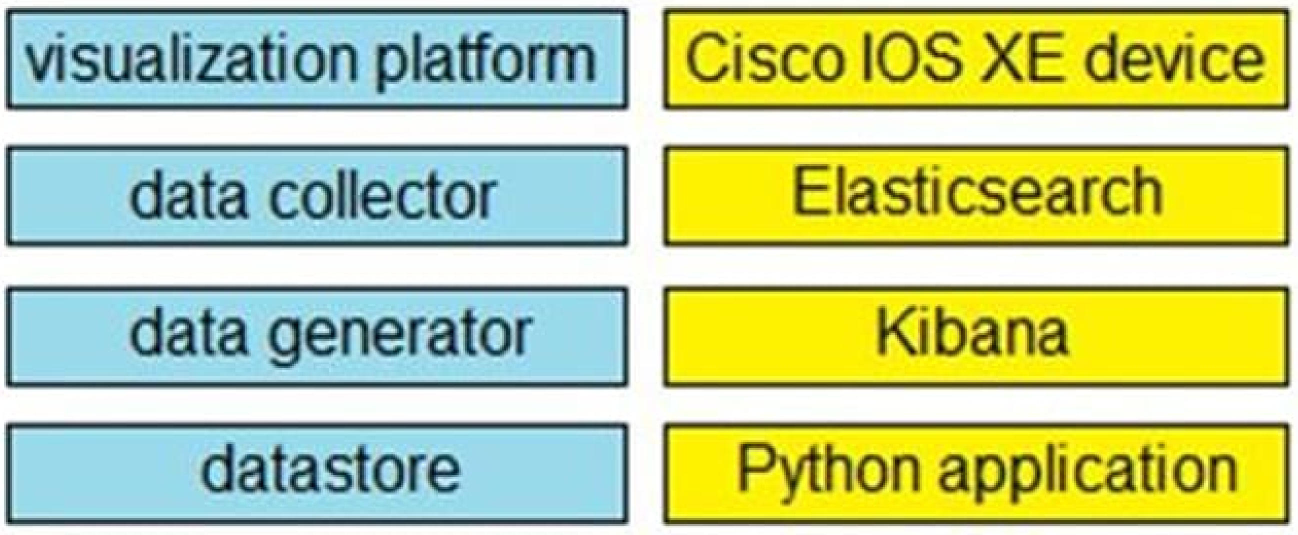
```
from ucsmsdk.ucseventhandler import UcsEventHandle
from ucsmsdk.mometa.ls.LsServer import LsServerConsts

end_script = False

def_sp_associate_callback(mce):
     global end_script
     if mce.mo.assoc_state == LsServerConsts.ASSOC_STATE_ASSOCIATED:
          log.debug("SP:" + mce.mo.dn + " Assoc Successful. assoc_state: "+
                    mce.mo.assoc_state
     elif mce.mo.assoc_state == LsServerConsts.ASSIGN_STATE_FAILED:
          log.error("SP:" + mce.mo.dn + "Assoc Failed. assoc_state: "+
                    mce.mo.assoc_state)
     end_script = True

def _sp_associate_monitor(event_handle, mo):
      event_handle .add(managed_object=mo, prop= "assoc_state",
                    success_value=[LsServerConsts.ASSOC_STATE ASSOCIATED],
                    failure_value=[LsServerConsts.ASSOC_ STATE_FAILED] ,

                    timeout_sec=600, call_back=_sp_associate_callback)

                         STATE_ERROR]
```

QUESTION 4

DRAG DROP

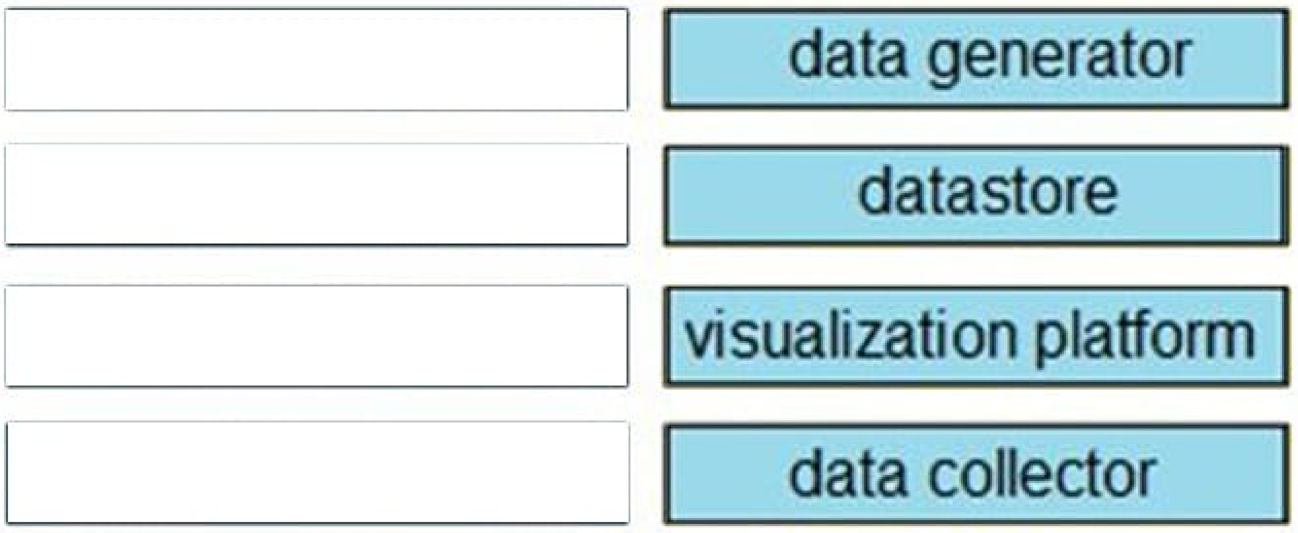
A Python application is being written to run inside a Cisco IOS XE device to assist with gathering telemetry data. Drag and drop the elements of the stack from the left onto the functions on the right to collect and display the telemetry streaming data.

Select and Place:



visualization platform	Cisco IOS XE device
data collector	Elasticsearch
data generator	Kibana
datastore	Python application

Correct Answer:



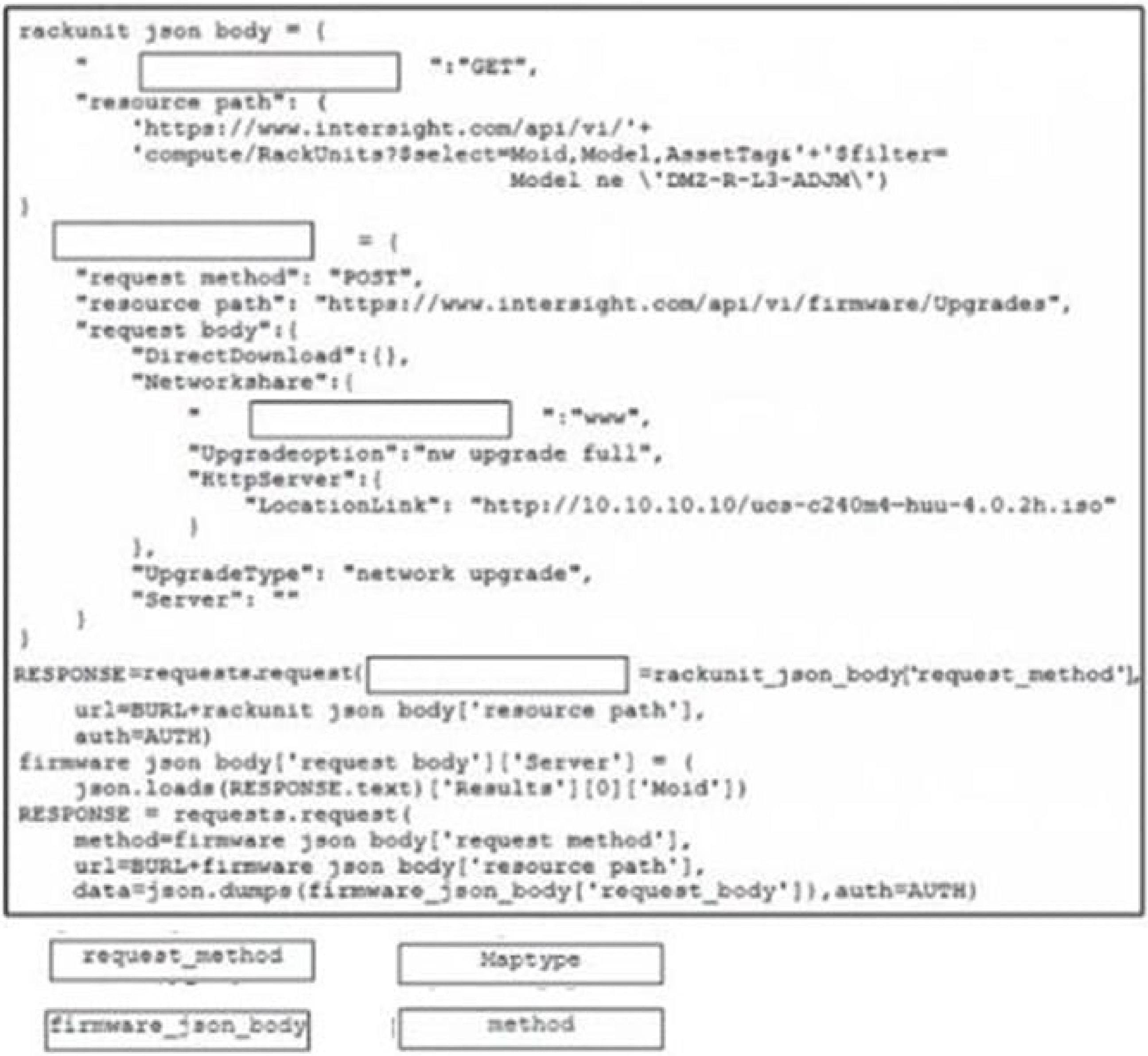
	data generator
	datastore
	visualization platform
	data collector

QUESTION 5

DRAG DROP

Click on the resource labs in the top left corner to view resources to help with this question The script uses the Cisco Intersight REST API Drag and drop the code from the bottom of the code snippet to the blanks in the code to construct a Python script to update the firmware on a specific Cisco interaght managed UCS rack server, DMZ-RL3ADJM.

Select and Place:



```
rackunit json body = {
    "                    ":"GET",
    "resource path": (
        'https://www.intersight.com/api/vi/'+
        'compute/RackUnits?$select=Moid,Model,AssetTag&'+'$filter=
                                   Model ne \'DMZ-R-L3-ADJM\')
}
                            = {
    "request method": "POST",
    "resource path": "https://www.intersight.com/api/vi/firmware/Upgrades",
    "request body":{
        "DirectDownload":{},
        "Networkshare":{
            "                    ":"www",
            "Upgradeoption":"nw upgrade full",
            "HttpServer":{
                "LocationLink": "http://10.10.10.10/ucs-c240m4-huu-4.0.2h.iso"
            }
        },
        "UpgradeType": "network upgrade",
        "Server": ""
    }
}
RESPONSE=requests.request(                    =rackunit_json_body['request_method'],
    url=BURL+rackunit json body['resource path'],
    auth=AUTH)
firmware json body['request body']['Server'] = (
    json.loads(RESPONSE.text)['Results'][0]['Moid'])
RESPONSE = requests.request(
    method=firmware json body['request method'],
    url=BURL+firmware json body['resource path'],
    data=json.dumps(firmware_json_body['request_body']),auth=AUTH)
```

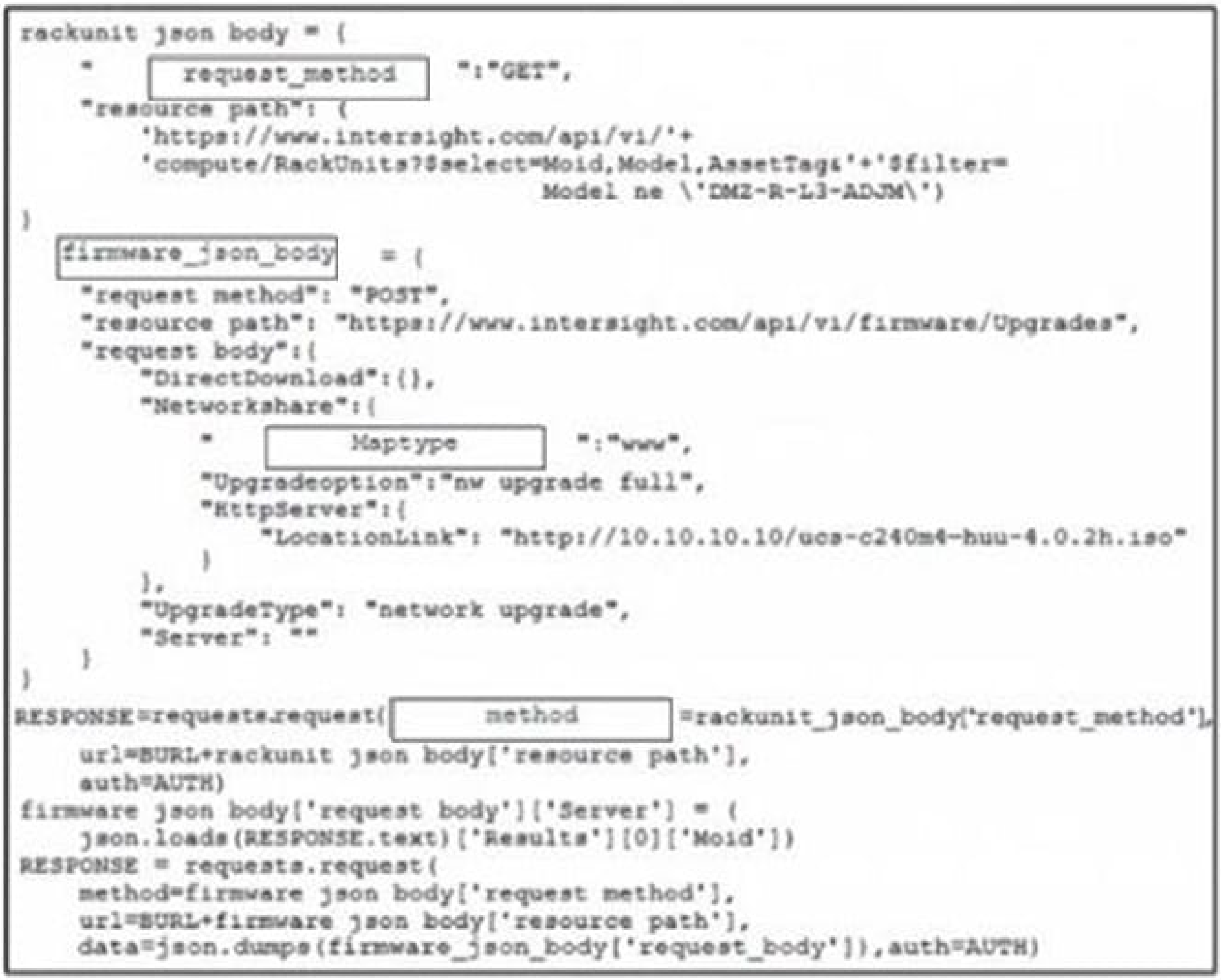
request_method

Maptype

firmware_json_body

method

Correct Answer:



```
rackunit json body = {
    "  request_method  ":"GET",
    "resource path": (
        'https://www.intersight.com/api/v1/'+
        'compute/RackUnits?$select=Moid,Model,AssetTag&'+'$filter=
                                  Model ne \'DMZ-R-L3-ADJM\')
}
  firmware_json_body   = {
    "request method": "POST",
    "resource path": "https://www.intersight.com/api/v1/firmware/Upgrades",
    "request body":{
        "DirectDownload":{},
        "Networkshare":{
            "      Maptype      ":"www",
            "Upgradeoption":"nw upgrade full",
            "HttpServer":{
                "LocationLink": "http://10.10.10.10/ucs-c240m4-huu-4.0.2h.iso"
            }
        },
        "UpgradeType": "network upgrade",
        "Server": ""
    }
}
RESPONSE=requests.request(      method      =rackunit_json_body['request_method'],
    url=BURL+rackunit json body['resource path'],
    auth=AUTH)
firmware json body['request body']['Server'] = (
    json.loads(RESPONSE.text)['Results'][0]['Moid'])
RESPONSE = requests.request(
    method=firmware json body['request method'],
    url=BURL+firmware json body['resource path'],
    data=json.dumps(firmware_json_body['request_body']),auth=AUTH)
```

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