Q.We need to write code that will query the meta data of an instance within AWS and provide a json formatted output. The choice of language and implementation is up to you.

A. I have answered this question in terms of Azure.

The Azure Instance Metadata Service (IMDS) provides information about currently running virtual machine instances. You can use it to manage and configure your virtual machines. This information includes the SKU, storage, network configurations, and upcoming maintenance events.

{

"compute": {

"azEnvironment": "AZUREPUBLICCLOUD",

"isHostCompatibilityLayerVm": "true",

"licenseType": "Windows\_Client",

"location": "westus",

"name": "examplevmname",

"offer": "WindowsServer",

"osProfile": {

"adminUsername": "admin",

"computerName": "examplevmname",

"disablePasswordAuthentication": "true"

},

"osType": "Windows",

"placementGroupId": "f67c14ab-e92c-408c-ae2d-da15866ec79a",

"plan": {

"name": "planName",

"product": "planProduct",

"publisher": "planPublisher"

},

"platformFaultDomain": "36",

"platformUpdateDomain": "42",

"publicKeys": [{

"keyData": "ssh-rsa 0",

"path": "/home/user/.ssh/authorized\_keys0"

},

{

"keyData": "ssh-rsa 1",

"path": "/home/user/.ssh/authorized\_keys1"

}

],

"publisher": "RDFE-Test-Microsoft-Windows-Server-Group",

"resourceGroupName": "macikgo-test-may-23",

"resourceId": "/subscriptions/xxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx/resourceGroups/macikgo-test-may-23/providers/Microsoft.Compute/virtualMachines/examplevmname",

"securityProfile": {

"secureBootEnabled": "true",

"virtualTpmEnabled": "false"

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"sku": "2019-Datacenter",

"storageProfile": {

"dataDisks": [{

"bytesPerSecondThrottle": "979202048",

"caching": "None",

"createOption": "Empty",

"diskCapacityBytes": "274877906944",

"diskSizeGB": "1024",

"image": {

"uri": ""

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"isSharedDisk": "false",

"isUltraDisk": "true",

"lun": "0",

"managedDisk": {

"id": "/subscriptions/xxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx/resourceGroups/macikgo-test-may-23/providers/Microsoft.Compute/disks/exampledatadiskname",

"storageAccountType": "Standard\_LRS"

},

"name": "exampledatadiskname",

"opsPerSecondThrottle": "65280",

"vhd": {

"uri": ""

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"writeAcceleratorEnabled": "false"

}],

"imageReference": {

"id": "",

"offer": "WindowsServer",

"publisher": "MicrosoftWindowsServer",

"sku": "2019-Datacenter",

"version": "latest"

},

"osDisk": {

"caching": "ReadWrite",

"createOption": "FromImage",

"diskSizeGB": "30",

"diffDiskSettings": {

"option": "Local"

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"encryptionSettings": {

"enabled": "false"

},

"image": {

"uri": ""

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"managedDisk": {

"id": "/subscriptions/xxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx/resourceGroups/macikgo-test-may-23/providers/Microsoft.Compute/disks/exampleosdiskname",

"storageAccountType": "Standard\_LRS"

},

"name": "exampleosdiskname",

"osType": "Windows",

"vhd": {

"uri": ""

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"writeAcceleratorEnabled": "false"

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"resourceDisk": {

"size": "4096"

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"subscriptionId": "xxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx",

"tags": "baz:bash;foo:bar",

"userData": "Zm9vYmFy",

"version": "15.05.22",

"vmId": "02aab8a4-74ef-476e-8182-f6d2ba4166a6",

"vmScaleSetName": "crpteste9vflji9",

"vmSize": "Standard\_A3",

"zone": ""

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"network": {

"interface": [{

"ipv4": {

"ipAddress": [{

"privateIpAddress": "10.144.133.132",

"publicIpAddress": ""

}],

"subnet": [{

"address": "10.144.133.128",

"prefix": "26"

}]

},

"ipv6": {

"ipAddress": [

]

},

"macAddress": "0011AAFFBB22"

}]

}

}