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Assessment 1 - Infrastructure as Code and Resource Provisioning

Contents

[Assessment 1 - Infrastructure as Code and Resource Provisioning 2](#_Toc201873954)

[1. Resource Group Creation 2](#_Toc201873955)

[ Correct command to create a resource group 2](#_Toc201873956)

[ Proper naming convention followed 2](#_Toc201873957)

[ Tag with Key: Environment and Value: Development added 2](#_Toc201873958)

[2. Database Creation 4](#_Toc201873959)

[ Correct command to create a database 4](#_Toc201873960)

[ Database created inside the correct resource group 4](#_Toc201873961)

[ Tag with Key: Environment and Value: Development added 4](#_Toc201873962)

[3. App Service Plan Creation 6](#_Toc201873963)

[ Correct command to create an app service plan 6](#_Toc201873964)

[ App service plan created inside the correct resource group 6](#_Toc201873965)

[ Tag with Key: Environment and Value: Development added 6](#_Toc201873966)

[4. App Services Creation 8](#_Toc201873967)

[ Correct command to create an app service for the API layer 8](#_Toc201873968)

[ Both app services created inside the correct app service plan and resource group 8](#_Toc201873969)

[ Tag with Key: Environment and Value: Development added to each app service 8](#_Toc201873970)

[ Correct command to create an app service for the user interface layer 10](#_Toc201873971)

[ Both app services created inside the correct app service plan and resource group 10](#_Toc201873972)

[ Tag with Key: Environment and Value: Development added to each app service 10](#_Toc201873973)

[5. JSON View Submission 13](#_Toc201873974)

[ Correct JSON view of the resource group 13](#_Toc201873975)

[ Correct JSON view of the app service plan 14](#_Toc201873976)

[ Correct JSON view of each app service 16](#_Toc201873977)

# Assessment 1 - Infrastructure as Code and Resource Provisioning

## Resource Group Creation

### Correct command to create a resource group

### Proper naming convention followed

### Tag with Key: Environment and Value: Development added

**Command =**

cloud250310 [ ~ ]$ az group create --name exampleRGPriyanka --location AustraliaEast --tags Environment=Development

{

"id": "/subscriptions/ef7bf398-50f0-4ac0-a233-43eb9543031c/resourceGroups/exampleRGPriyanka",

"location": "australiaeast",

"managedBy": null,

"name": "exampleRGPriyanka",

"properties": {

"provisioningState": "Succeeded"

},

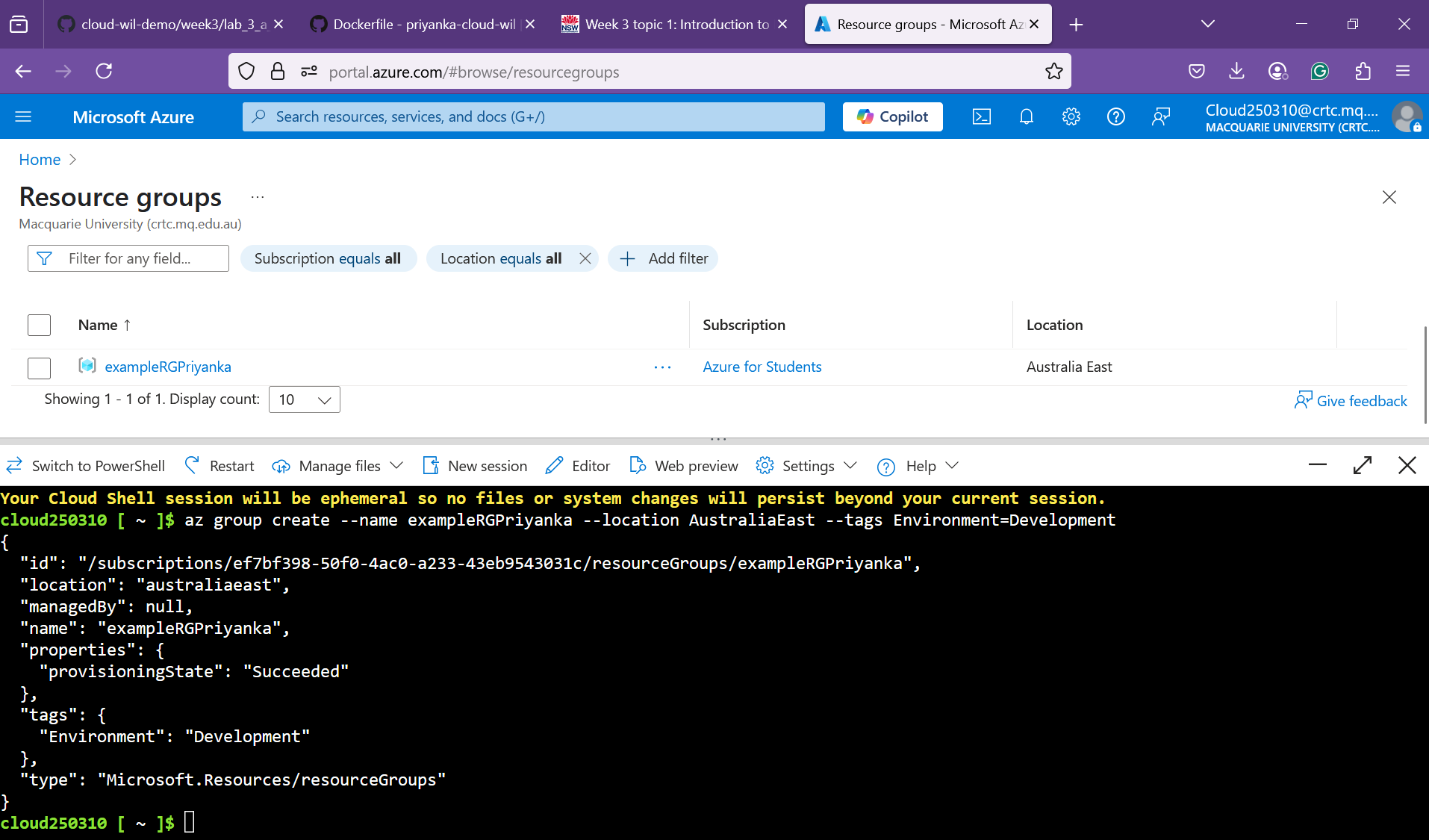
**"tags": {**

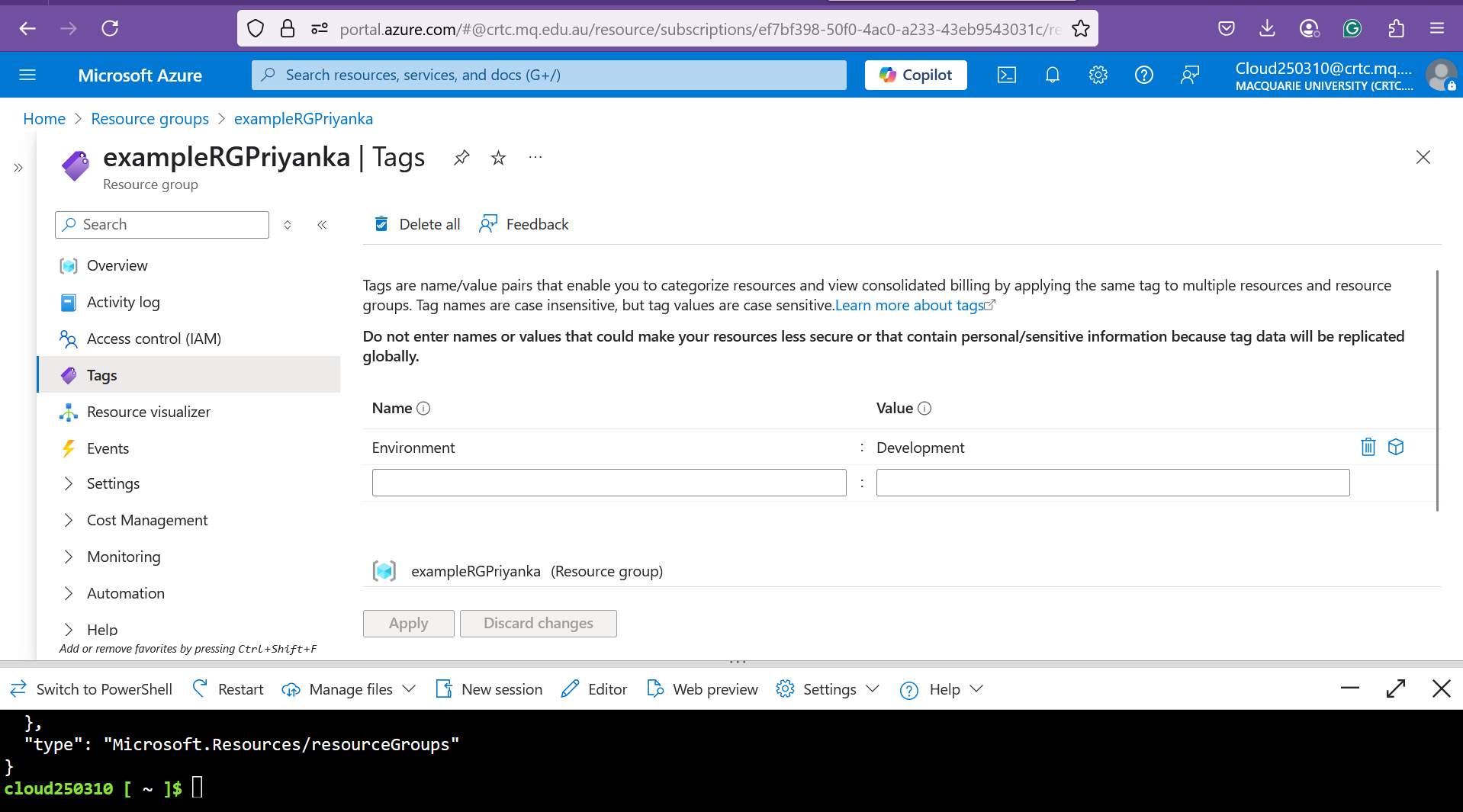
**"Environment": "Development"**

**},**

"type": "Microsoft.Resources/resourceGroups"

}



****

## Database Creation

### Correct command to create a database

### Database created inside the correct resource group

### Tag with Key: Environment and Value: Development added

**Command =**

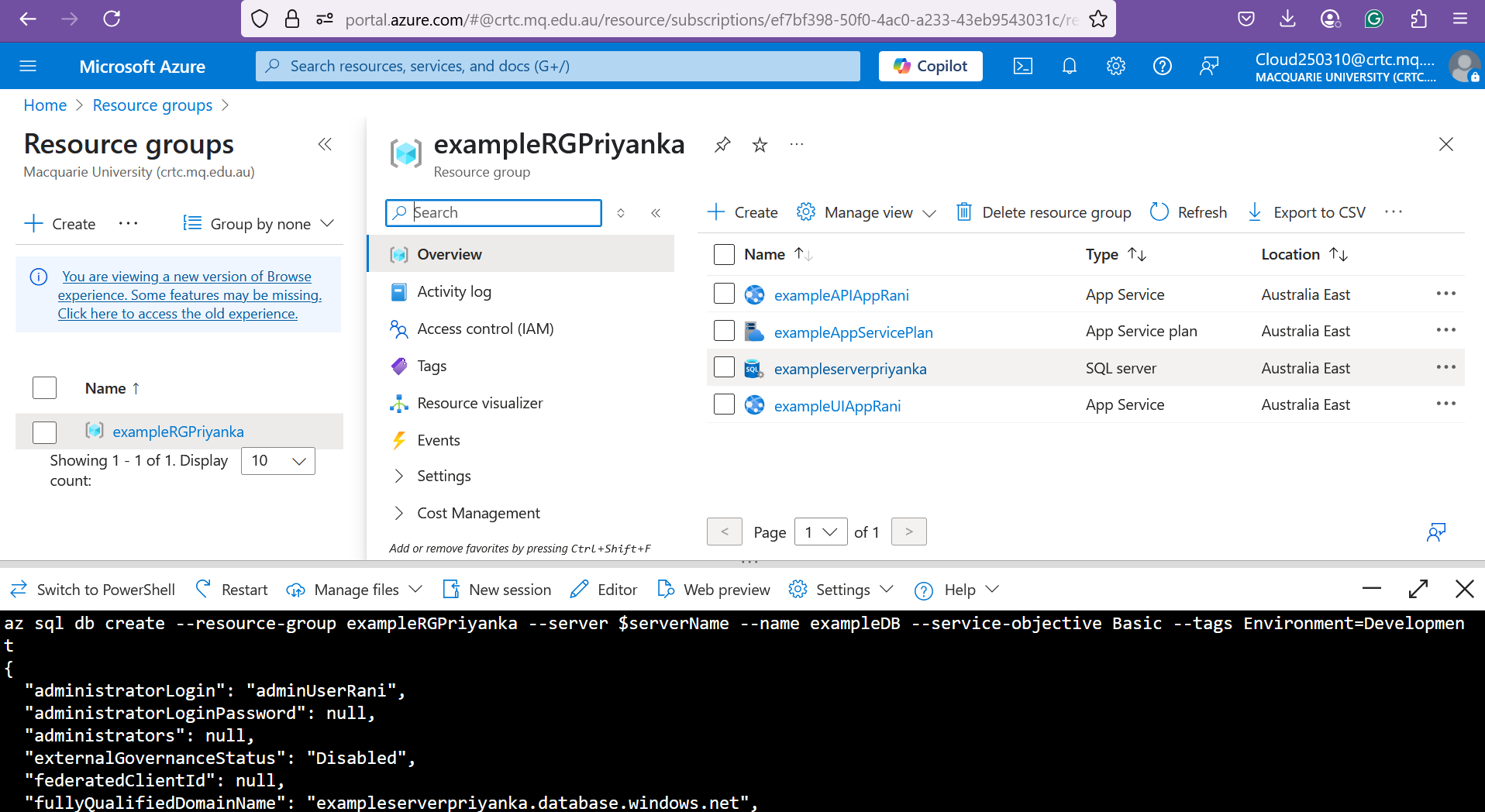
cloud250310 [ ~ ]$ serverName=" exampleserverpriyanka "

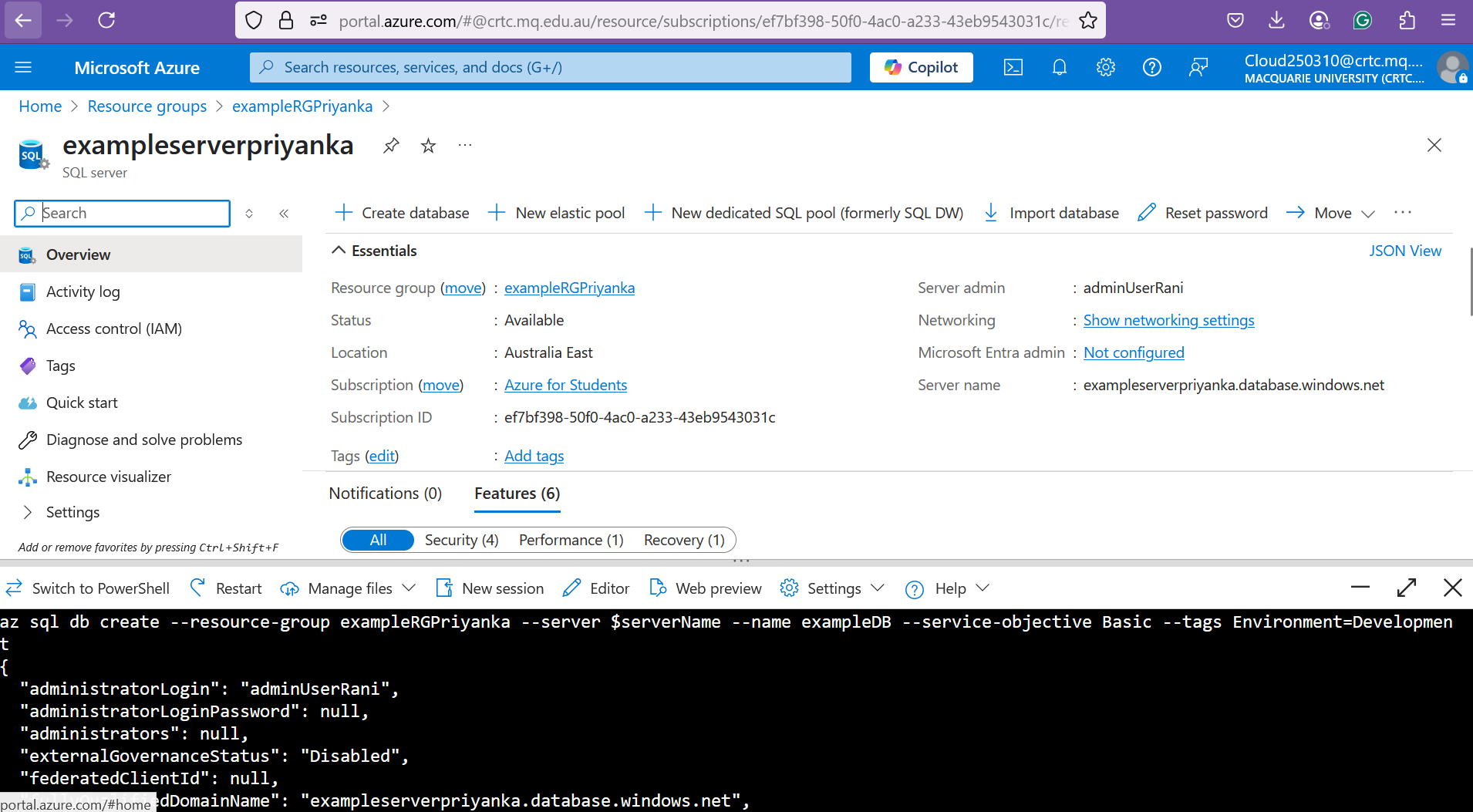
cloud250310 [ ~ ]$ adminLogin="adminUserRani"

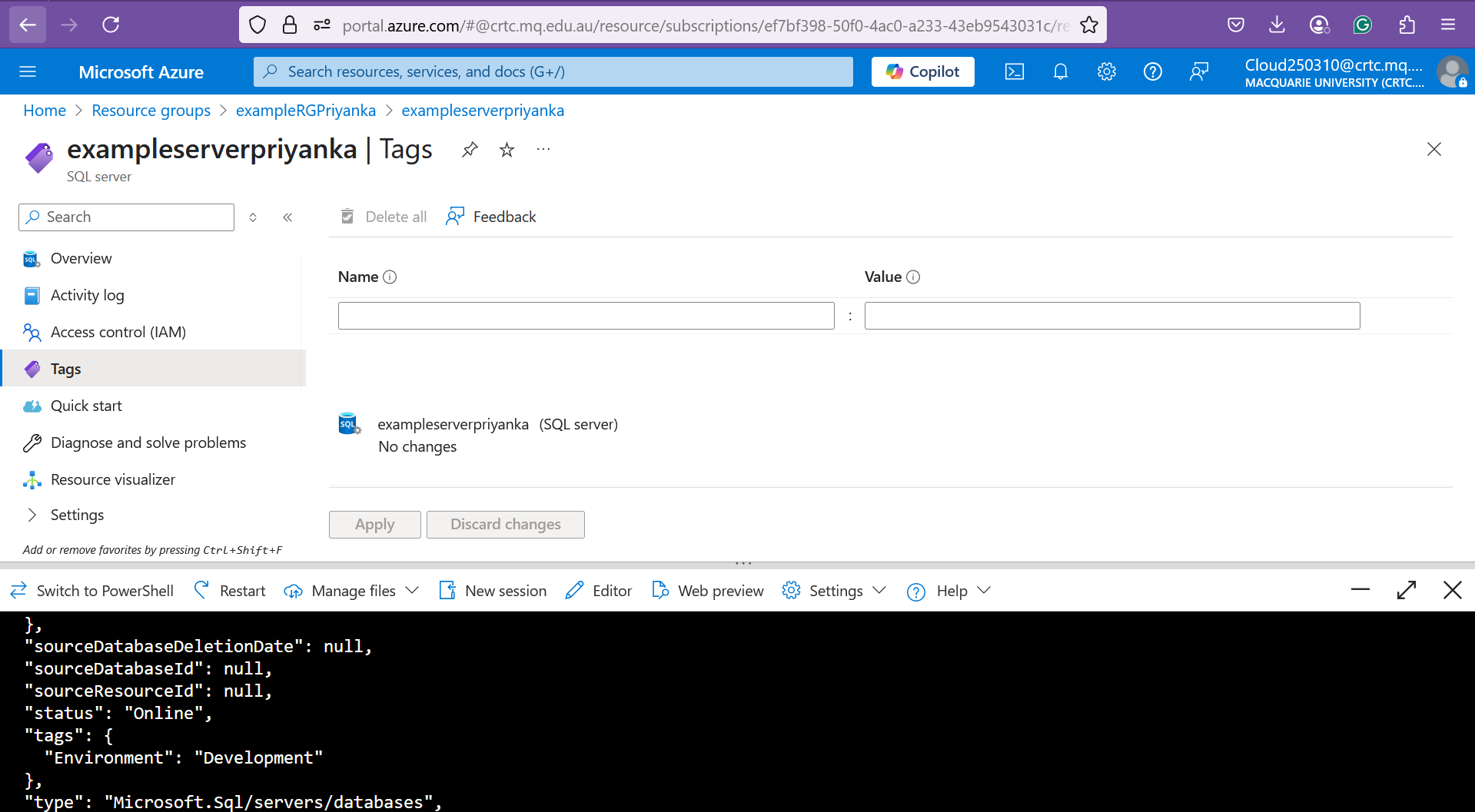
cloud250310 [ ~ ]$ password="MySecureP@ssw0rd123"

cloud250310 [ ~ ]$ az sql server create --name $serverName --resource-group exampleRGPriyanka --location AustraliaEast --admin-user $adminLogin --admin-password $password

az sql db create --resource-group exampleRGPriyanka --server $serverName --name exampleDB --service-objective Basic --tags Environment=Development

****

****

****

## App Service Plan Creation

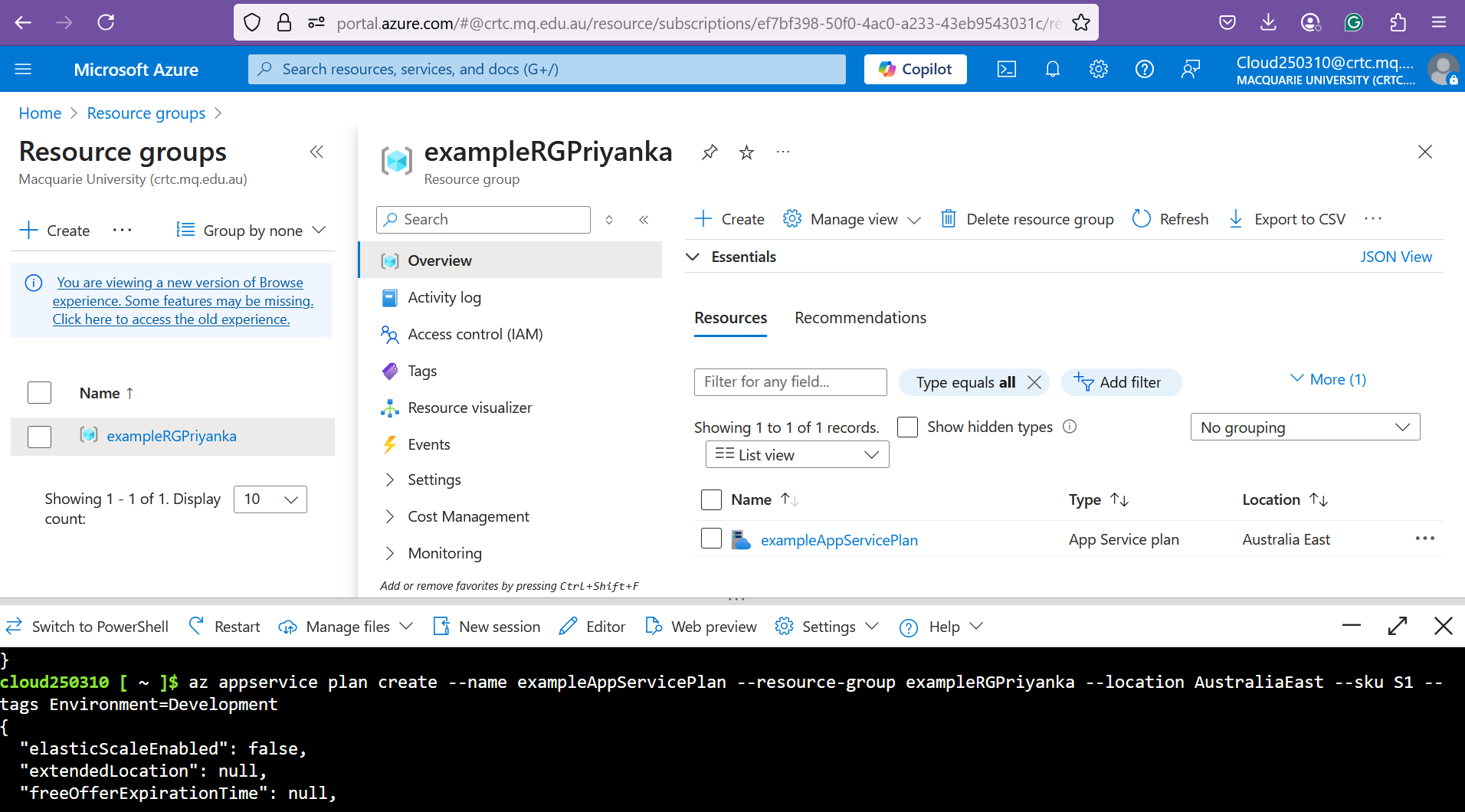
### Correct command to create an app service plan

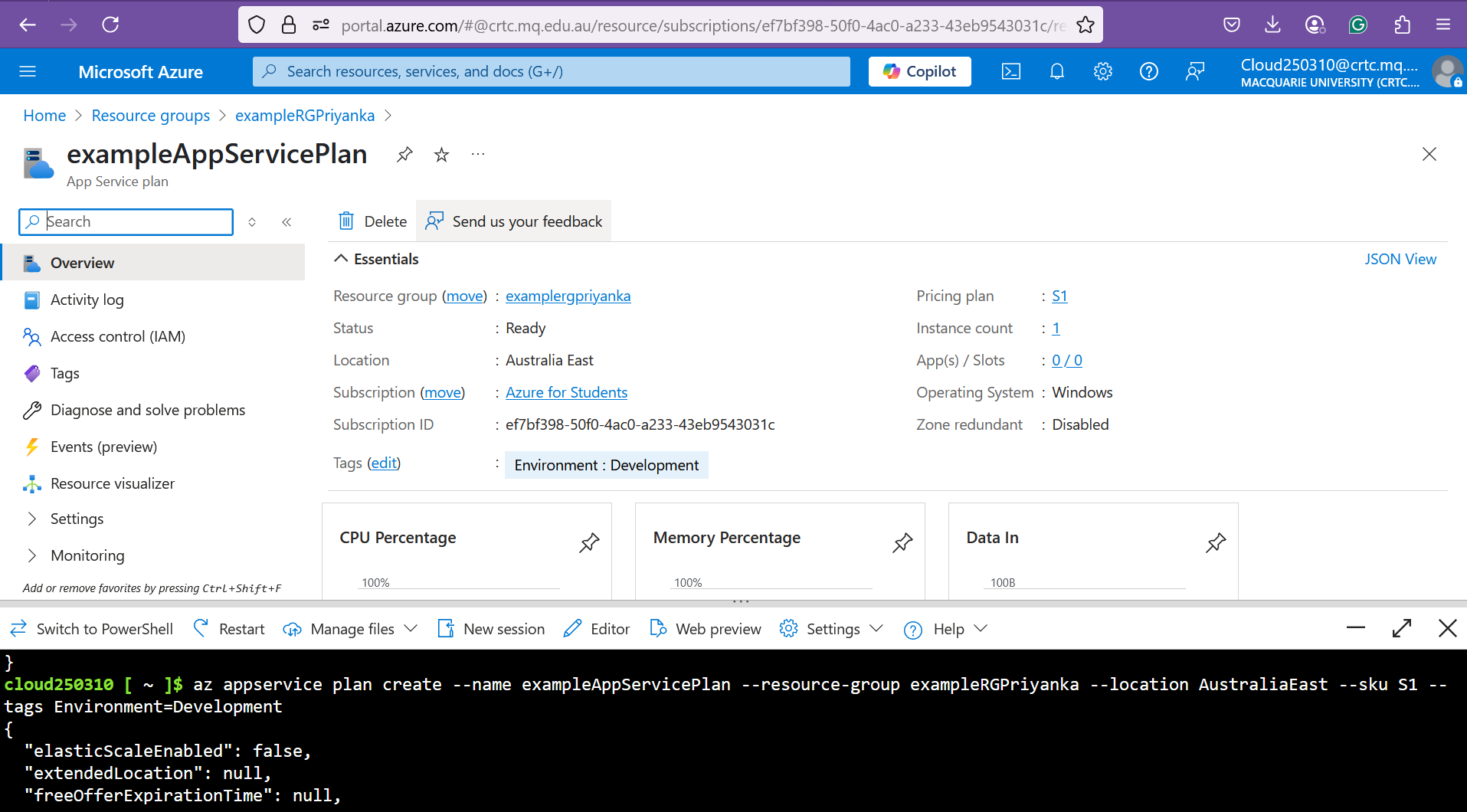
### App service plan created inside the correct resource group

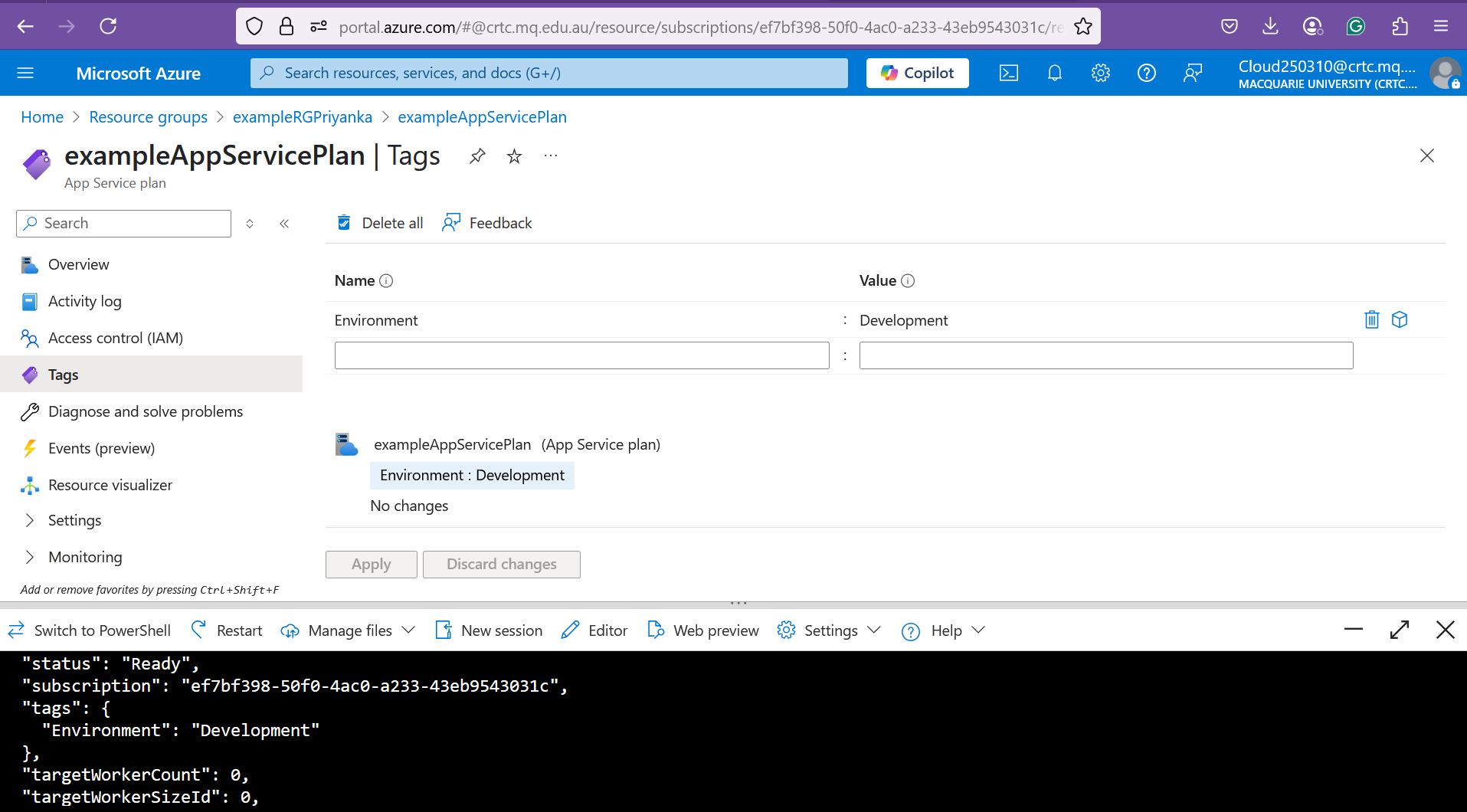
### Tag with Key: Environment and Value: Development added

**Command =**

cloud250310 [ ~ ]$ az appservice plan create --name exampleAppServicePlan --resource-group exampleRGPriyanka --location AustraliaEast --sku S1 -- tags Environment=Development







## App Services Creation

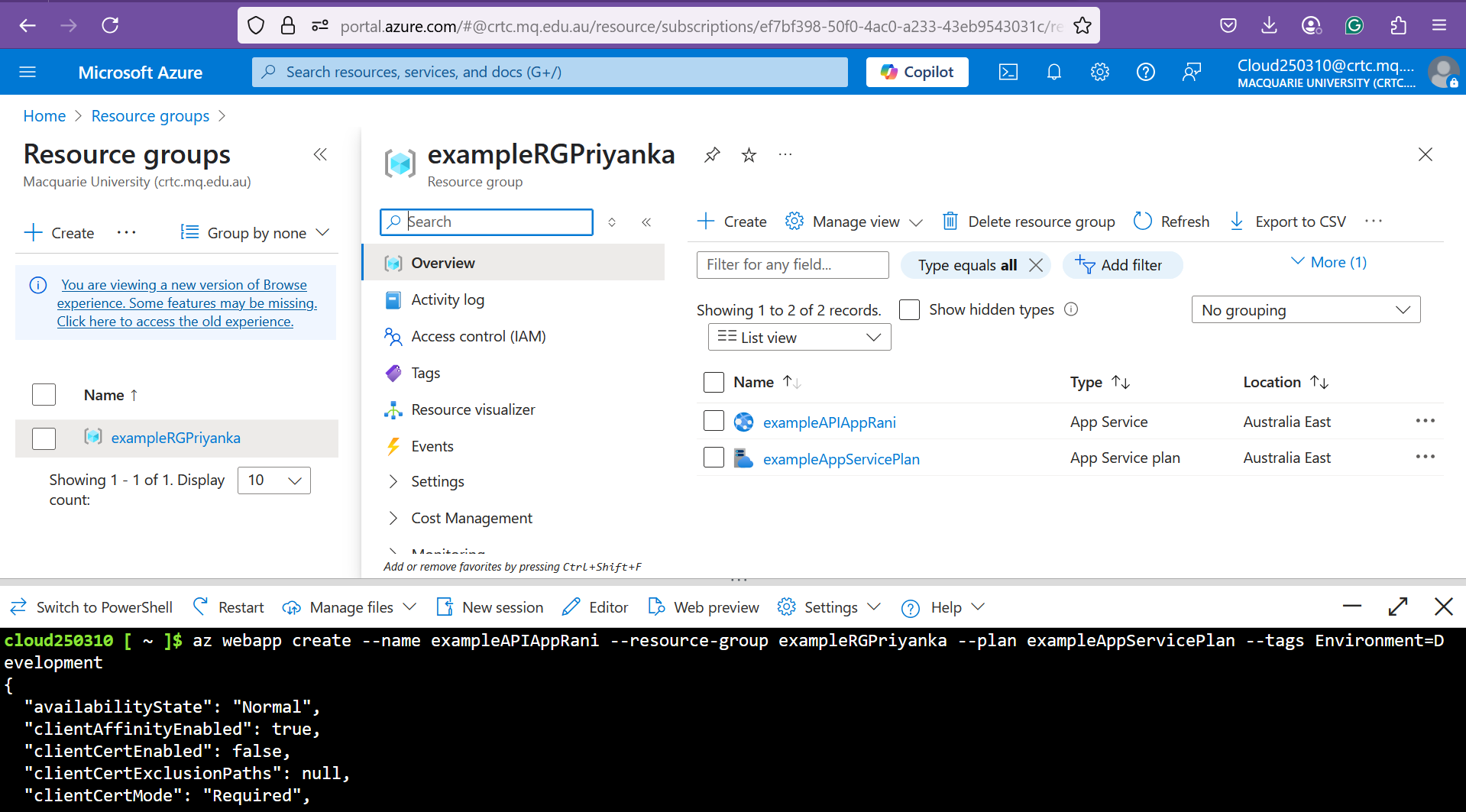
### Correct command to create an app service for the API layer

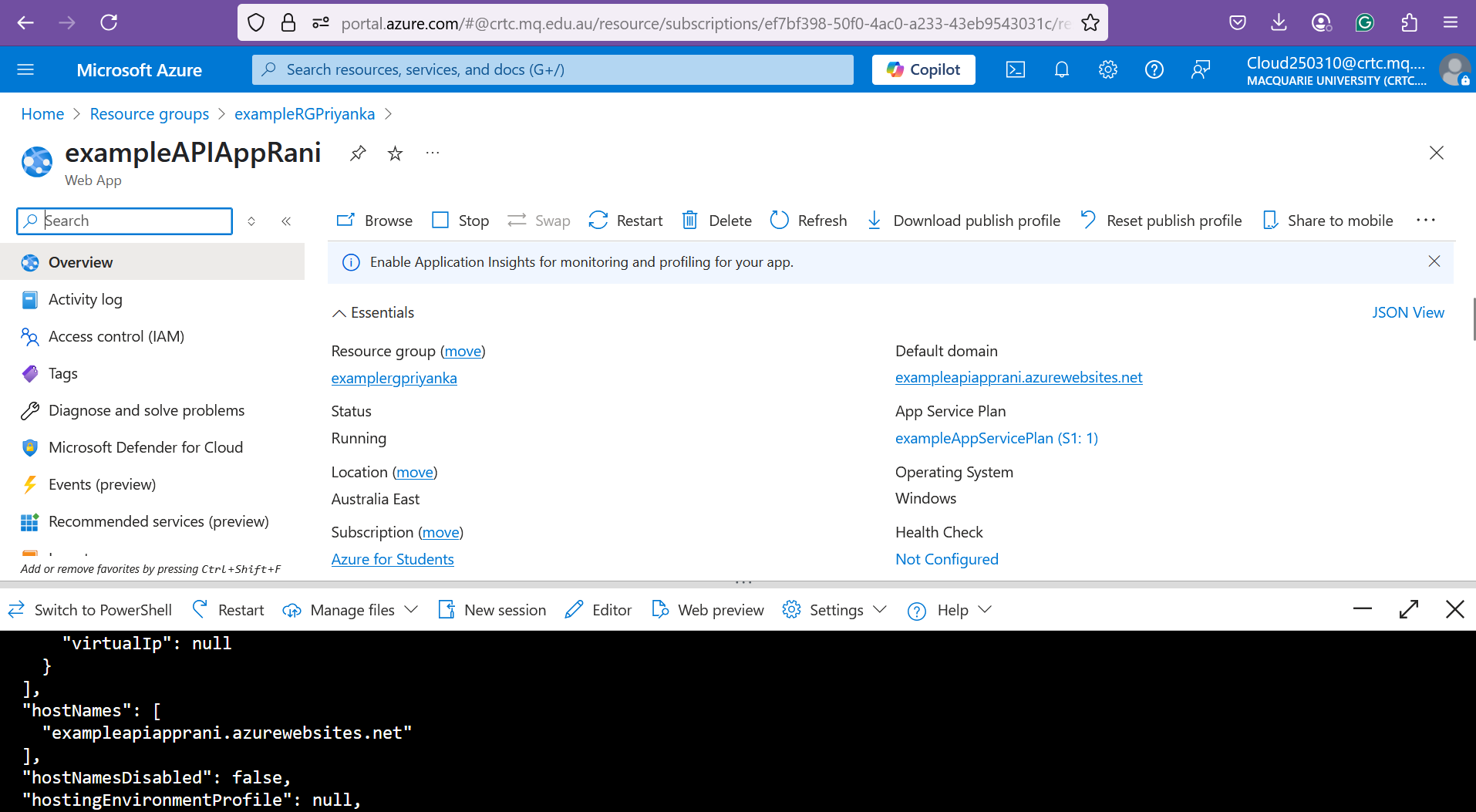
### Both app services created inside the correct app service plan and resource group

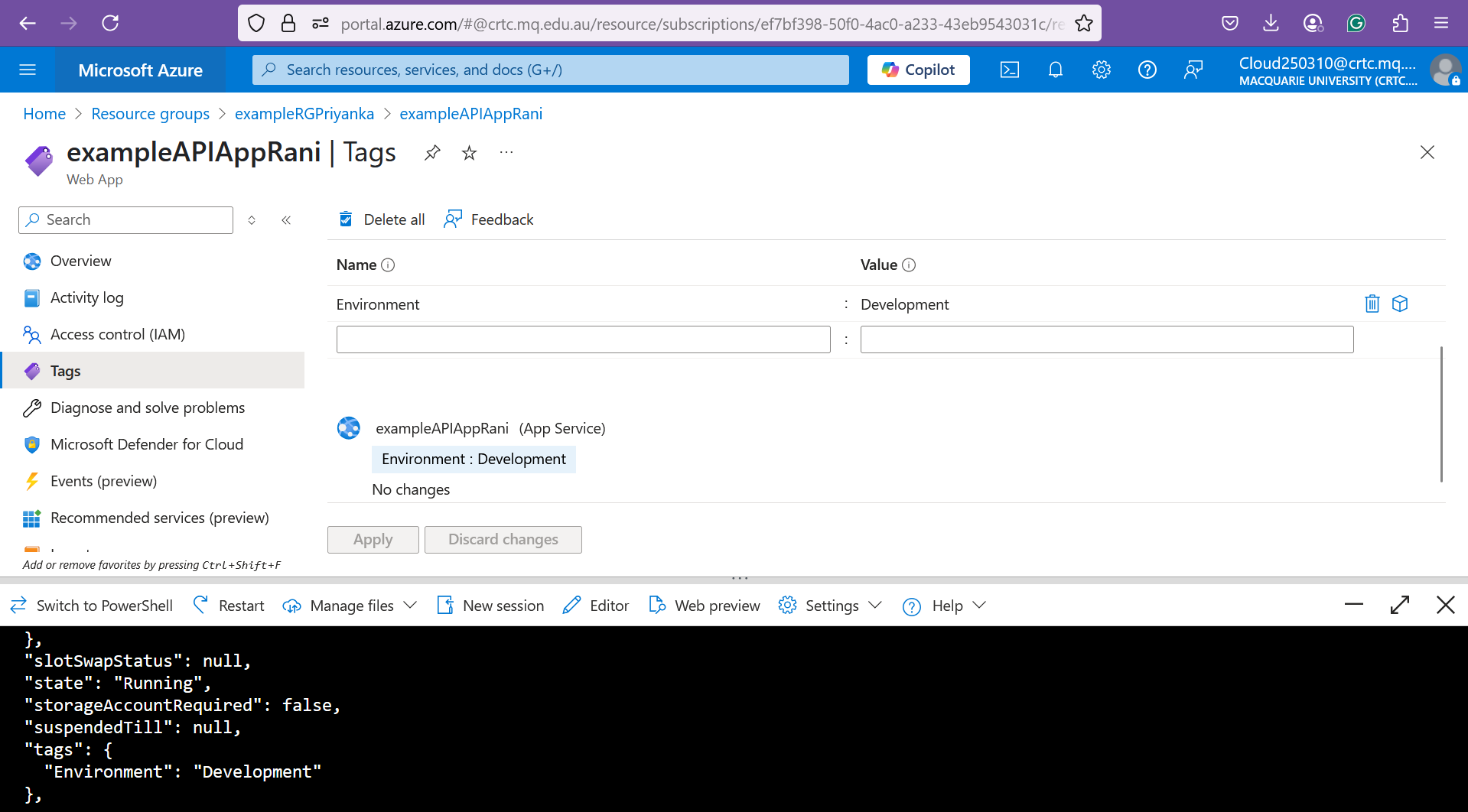
### Tag with Key: Environment and Value: Development added to each app service

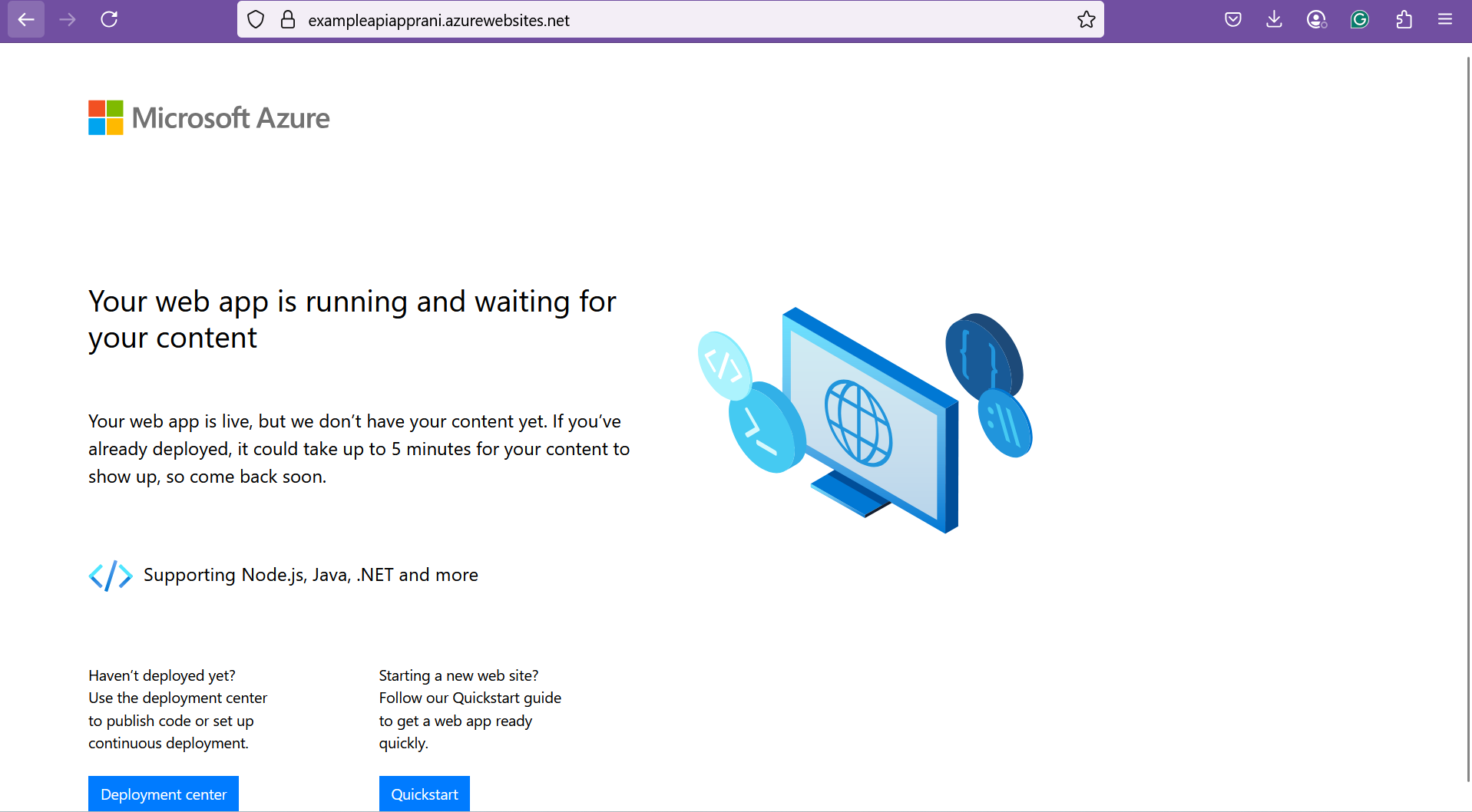
**Command =**

cloud250310 [ ~ ]$ az webapp create --name exampleAPIAppRani --resource-group exampleRGPriyanka --plan exampleAppServicePlan --tags Environment=Development







****

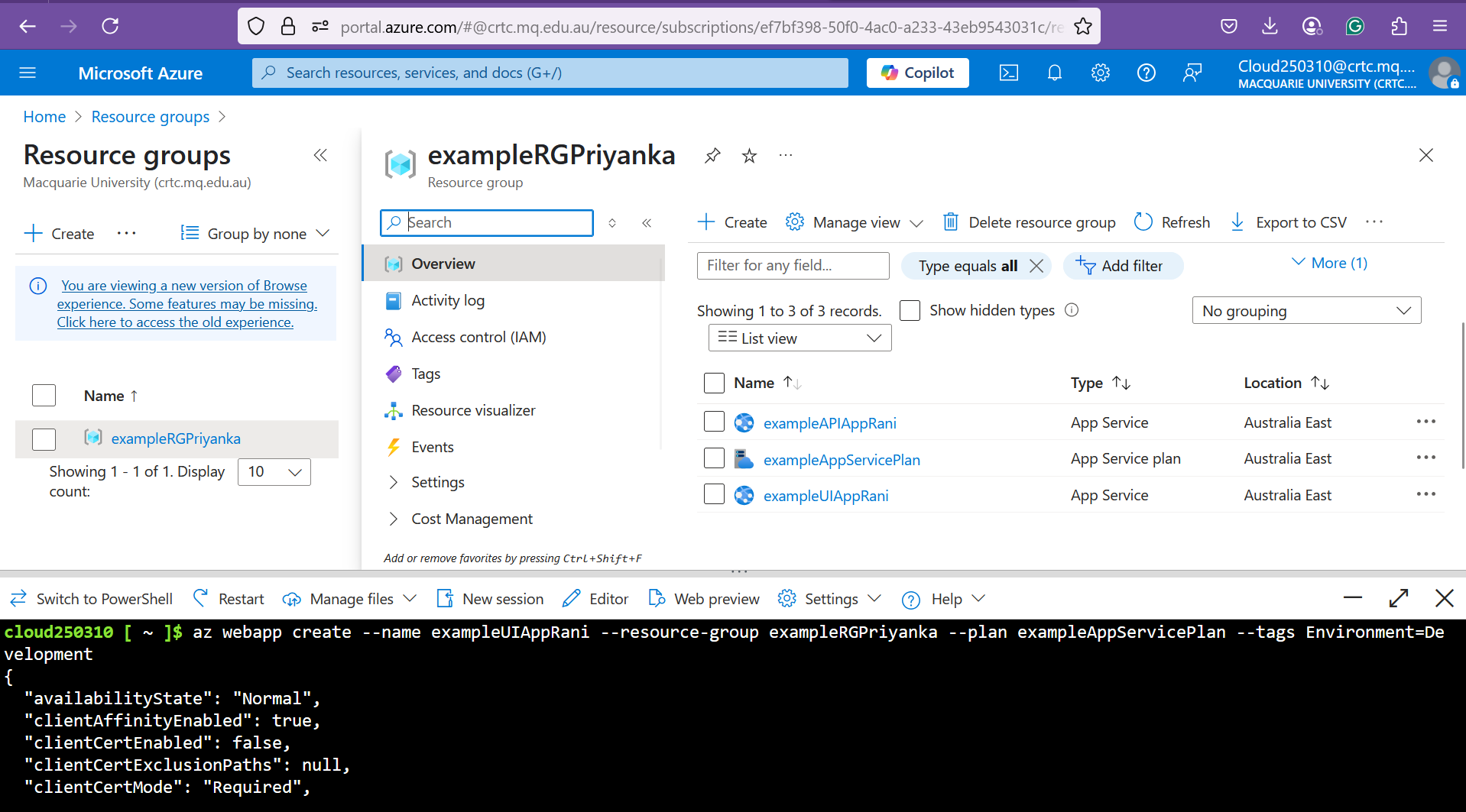
### Correct command to create an app service for the user interface layer

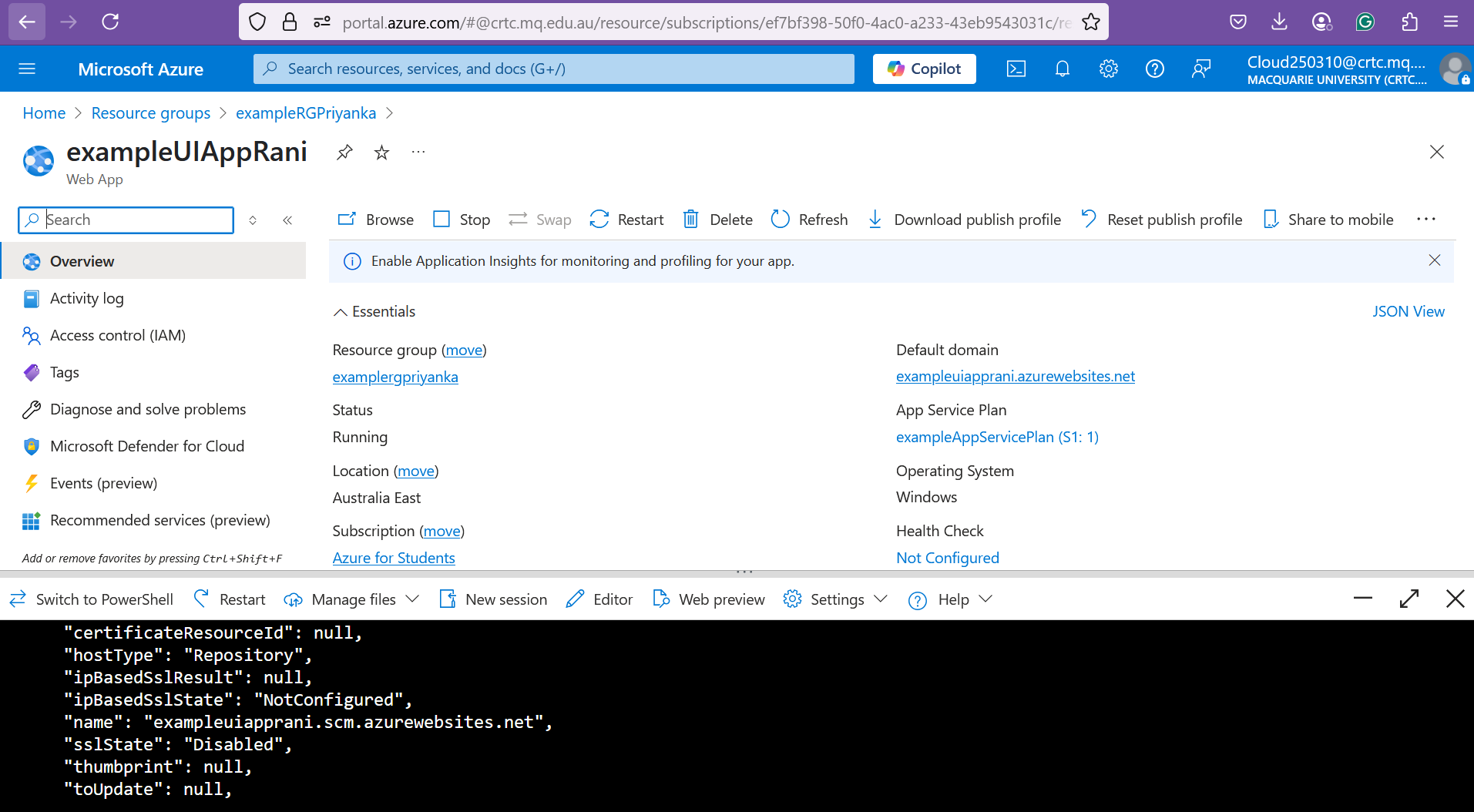
### Both app services created inside the correct app service plan and resource group

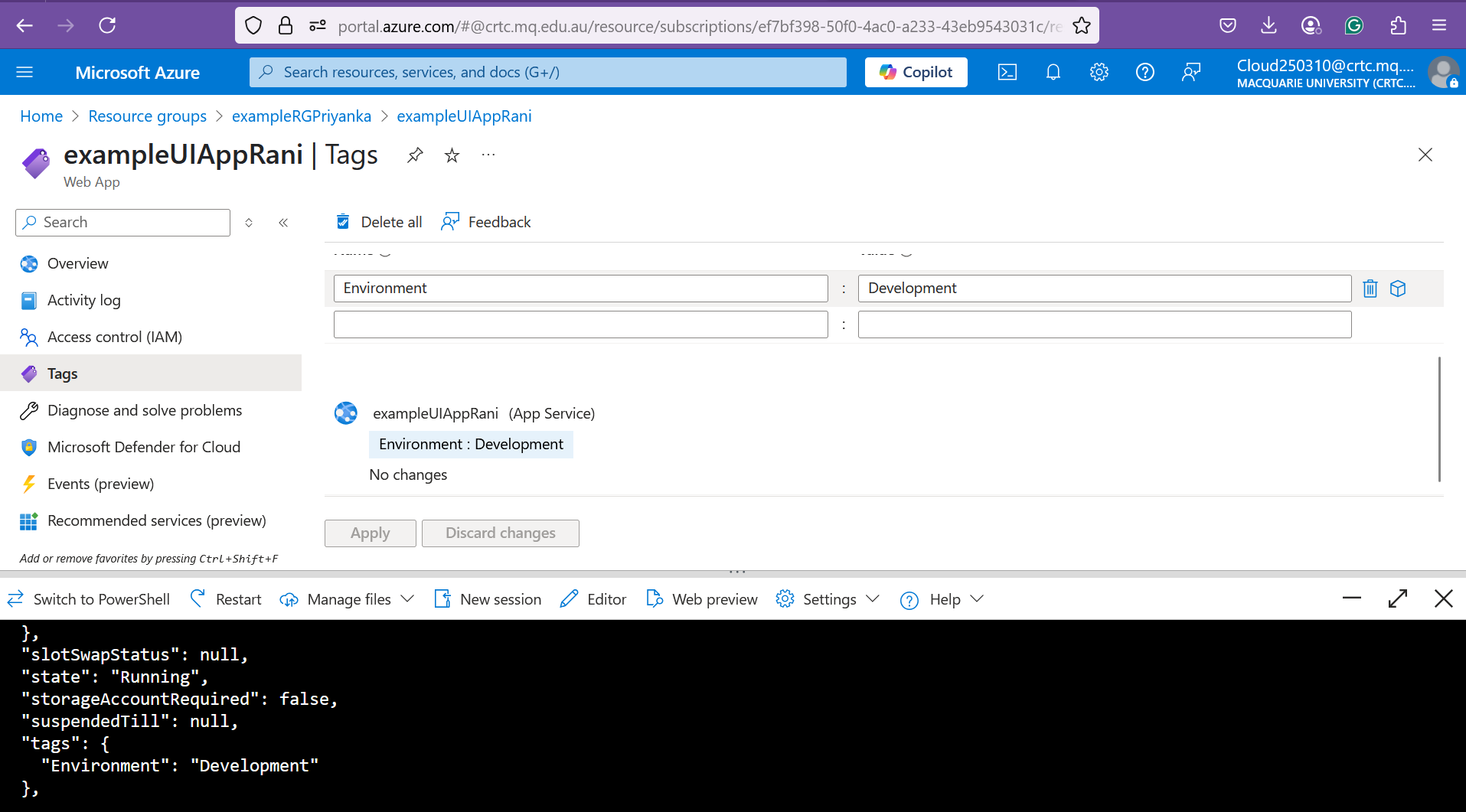
### Tag with Key: Environment and Value: Development added to each app service

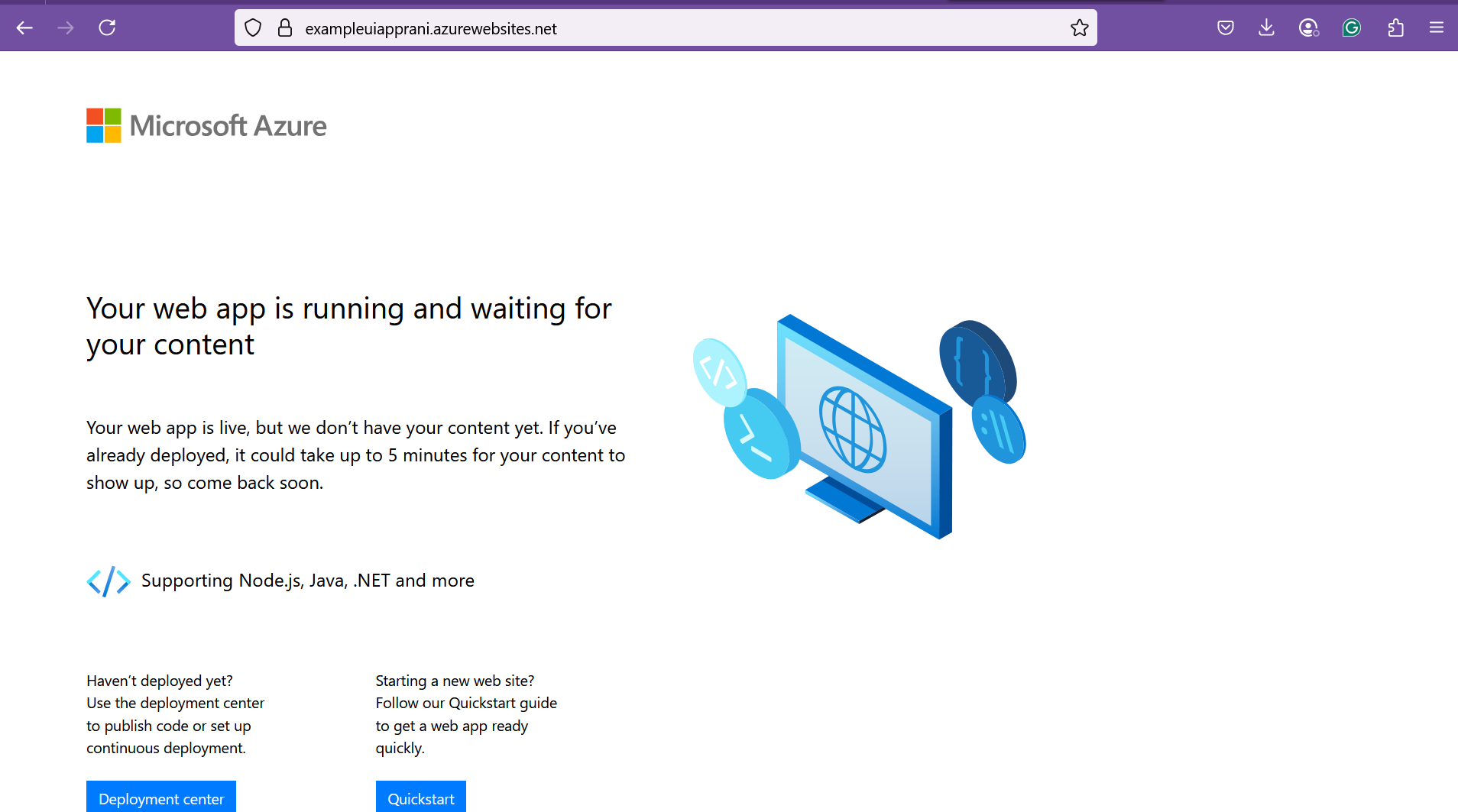
**Command=**

cloud250310 [ ~ ]$ az webapp create --name exampleUIAppRani --resource-group exampleRGPriyanka --plan exampleAppServicePlan --tags Environment=Development









## JSON View Submission

### Correct JSON view of the resource group

cloud250310 [ ~ ]$ az group create --name exampleRGPriyanka --location AustraliaEast --tags Environment=Development

{

"id": "/subscriptions/ef7bf398-50f0-4ac0-a233-43eb9543031c/resourceGroups/exampleRGPriyanka",

"location": "australiaeast",

"managedBy": null,

"name": "exampleRGPriyanka",

"properties": {

"provisioningState": "Succeeded"

},

**"tags": {**

**"Environment": "Development"**

**},**

"type": "Microsoft.Resources/resourceGroups"

}

* + **Correct JSON view of the database**

{

"administratorLogin": "adminUserRani",

"administratorLoginPassword": null,

"administrators": null,

"externalGovernanceStatus": "Disabled",

"federatedClientId": null,

"fullyQualifiedDomainName": "exampleserverpriyanka.database.windows.net",

"id": "/subscriptions/ef7bf398-50f0-4ac0-a233-43eb9543031c/resourceGroups/exampleRGPriyanka/providers/Microsoft.Sql/servers/exampleserverpriyanka",

"identity": null,

"isIPv6Enabled": null,

"keyId": null,

"kind": "v12.0",

"location": "australiaeast",

"minimalTlsVersion": "1.2",

"name": "exampleserverpriyanka",

"primaryUserAssignedIdentityId": null,

"privateEndpointConnections": [],

"publicNetworkAccess": "Enabled",

"resourceGroup": "exampleRGPriyanka",

"restrictOutboundNetworkAccess": "Disabled",

"state": "Ready",

"tags": null,

"type": "Microsoft.Sql/servers",

"version": "12.0",

"workspaceFeature": null

}

| Running ..

### Correct JSON view of the app service plan

cloud250310 [ ~ ]$ az appservice plan create --name exampleAppServicePlan --resource-group exampleRGPriyanka --location AustraliaEast --sku S1 --

tags Environment=Development

{

"elasticScaleEnabled": false,

"extendedLocation": null,

"freeOfferExpirationTime": null,

"geoRegion": "Australia East",

"hostingEnvironmentProfile": null,

"hyperV": false,

"id": "/subscriptions/ef7bf398-50f0-4ac0-a233-43eb9543031c/resourceGroups/exampleRGPriyanka/providers/Microsoft.Web/serverfarms/exampleAppServicePlan",

"isSpot": false,

"isXenon": false,

"kind": "app",

"kubeEnvironmentProfile": null,

"location": "AustraliaEast",

"maximumElasticWorkerCount": 1,

"maximumNumberOfWorkers": 0,

"name": "exampleAppServicePlan",

"numberOfSites": 0,

"numberOfWorkers": 1,

"perSiteScaling": false,

"provisioningState": "Succeeded",

"reserved": false,

"resourceGroup": "exampleRGPriyanka",

"sku": {

"capabilities": null,

"capacity": 1,

"family": "S",

"locations": null,

"name": "S1",

"size": "S1",

"skuCapacity": null,

"tier": "Standard"

},

"spotExpirationTime": null,

"status": "Ready",

"subscription": "ef7bf398-50f0-4ac0-a233-43eb9543031c",

"tags": {

"Environment": "Development"

},

"targetWorkerCount": 0,

"targetWorkerSizeId": 0,

"type": "Microsoft.Web/serverfarms",

"workerTierName": null,

"zoneRedundant": false

}

### Correct JSON view of each app service

1. **UI APP**

cloud250310 [ ~ ]$ az webapp create --name exampleUIAppRani --resource-group exampleRGPriyanka --plan exampleAppServicePlan --tags Environment=De

velopment

{

"availabilityState": "Normal",

"clientAffinityEnabled": true,

"clientCertEnabled": false,

"clientCertExclusionPaths": null,

"clientCertMode": "Required",

"cloningInfo": null,

"containerSize": 0,

"customDomainVerificationId": "26B353D885EA0C999F26ABEAE5756A28855CF41E390E61D048A7A867E9114A3F",

"dailyMemoryTimeQuota": 0,

"daprConfig": null,

"defaultHostName": "exampleuiapprani.azurewebsites.net",

"enabled": true,

"enabledHostNames": [

"exampleuiapprani.azurewebsites.net",

"exampleuiapprani.scm.azurewebsites.net"

],

"endToEndEncryptionEnabled": false,

"extendedLocation": null,

"ftpPublishingUrl": "ftps://waws-prod-sy3-077.ftp.azurewebsites.windows.net/site/wwwroot",

"hostNameSslStates": [

{

"certificateResourceId": null,

"hostType": "Standard",

"ipBasedSslResult": null,

"ipBasedSslState": "NotConfigured",

"name": "exampleuiapprani.azurewebsites.net",

"sslState": "Disabled",

"thumbprint": null,

"toUpdate": null,

"toUpdateIpBasedSsl": null,

"virtualIPv6": null,

"virtualIp": null

},

{

"certificateResourceId": null,

"hostType": "Repository",

"ipBasedSslResult": null,

"ipBasedSslState": "NotConfigured",

"name": "exampleuiapprani.scm.azurewebsites.net",

"sslState": "Disabled",

"thumbprint": null,

"toUpdate": null,

"toUpdateIpBasedSsl": null,

"virtualIPv6": null,

"virtualIp": null

}

],

"hostNames": [

"exampleuiapprani.azurewebsites.net"

],

"hostNamesDisabled": false,

"hostingEnvironmentProfile": null,

"httpsOnly": false,

"hyperV": false,

"id": "/subscriptions/ef7bf398-50f0-4ac0-a233-43eb9543031c/resourceGroups/exampleRGPriyanka/providers/Microsoft.Web/sites/exampleUIAppRani",

"identity": null,

"inProgressOperationId": null,

"isDefaultContainer": null,

"isXenon": false,

"keyVaultReferenceIdentity": "SystemAssigned",

"kind": "app",

"lastModifiedTimeUtc": "2025-06-26T13:02:19.566666",

"location": "Australia East",

"managedEnvironmentId": null,

"maxNumberOfWorkers": null,

"name": "exampleUIAppRani",

"outboundIpAddresses": "20.53.80.153,20.53.124.133,20.53.130.174,20.53.131.181,20.53.131.217,20.53.132.47,20.211.64.3",

"possibleOutboundIpAddresses": "20.53.80.153,20.53.124.133,20.53.130.174,20.53.131.181,20.53.131.217,20.53.132.47,4.237.152.244,20.53.129.35,20.53.132.78,20.53.132.107,20.53.125.110,20.53.132.117,20.53.132.125,20.53.131.73,20.53.126.230,20.53.132.140,20.53.132.153,20.53.132.163,20.53.132.230,20.53.133.8,20.53.133.34,20.53.133.97,20.53.133.131,20.53.133.154,20.53.133.193,20.193.11.198,20.53.133.212,20.53.133.253,20.193.31.39,20.53.133.254,20.53.134.32,20.211.64.3",

"publicNetworkAccess": null,

"redundancyMode": "None",

"repositorySiteName": "exampleUIAppRani",

"reserved": false,

"resourceConfig": null,

"resourceGroup": "exampleRGPriyanka",

"scmSiteAlsoStopped": false,

"serverFarmId": "/subscriptions/ef7bf398-50f0-4ac0-a233-43eb9543031c/resourceGroups/exampleRGPriyanka/providers/Microsoft.Web/serverfarms/exampleAppServicePlan",

"siteConfig": {

"acrUseManagedIdentityCreds": false,

"acrUserManagedIdentityId": null,

"alwaysOn": false,

"antivirusScanEnabled": null,

"apiDefinition": null,

"apiManagementConfig": null,

"appCommandLine": null,

"appSettings": null,

"autoHealEnabled": null,

"autoHealRules": null,

"autoSwapSlotName": null,

"azureMonitorLogCategories": null,

"azureStorageAccounts": null,

"clusteringEnabled": false,

"connectionStrings": null,

"cors": null,

"customAppPoolIdentityAdminState": null,

"customAppPoolIdentityTenantState": null,

"defaultDocuments": null,

"detailedErrorLoggingEnabled": null,

"documentRoot": null,

"elasticWebAppScaleLimit": 0,

"experiments": null,

"fileChangeAuditEnabled": null,

"ftpsState": null,

"functionAppScaleLimit": null,

"functionsRuntimeScaleMonitoringEnabled": null,

"handlerMappings": null,

"healthCheckPath": null,

"http20Enabled": false,

"http20ProxyFlag": null,

"httpLoggingEnabled": null,

"ipSecurityRestrictions": [

{

"action": "Allow",

"description": "Allow all access",

"headers": null,

"ipAddress": "Any",

"name": "Allow all",

"priority": 2147483647,

"subnetMask": null,

"subnetTrafficTag": null,

"tag": null,

"vnetSubnetResourceId": null,

"vnetTrafficTag": null

}

],

"ipSecurityRestrictionsDefaultAction": null,

"javaContainer": null,

"javaContainerVersion": null,

"javaVersion": null,

"keyVaultReferenceIdentity": null,

"limits": null,

"linuxFxVersion": "",

"loadBalancing": null,

"localMySqlEnabled": null,

"logsDirectorySizeLimit": null,

"machineKey": null,

"managedPipelineMode": null,

"managedServiceIdentityId": null,

"metadata": null,

"minTlsCipherSuite": null,

"minTlsVersion": null,

"minimumElasticInstanceCount": 0,

"netFrameworkVersion": null,

"nodeVersion": null,

"numberOfWorkers": 1,

"phpVersion": null,

"powerShellVersion": null,

"preWarmedInstanceCount": null,

"publicNetworkAccess": null,

"publishingPassword": null,

"publishingUsername": null,

"push": null,

"pythonVersion": null,

"remoteDebuggingEnabled": null,

"remoteDebuggingVersion": null,

"requestTracingEnabled": null,

"requestTracingExpirationTime": null,

"routingRules": null,

"runtimeADUser": null,

"runtimeADUserPassword": null,

"sandboxType": null,

"scmIpSecurityRestrictions": [

{

"action": "Allow",

"description": "Allow all access",

"headers": null,

"ipAddress": "Any",

"name": "Allow all",

"priority": 2147483647,

"subnetMask": null,

"subnetTrafficTag": null,

"tag": null,

"vnetSubnetResourceId": null,

"vnetTrafficTag": null

}

],

"scmIpSecurityRestrictionsDefaultAction": null,

"scmIpSecurityRestrictionsUseMain": null,

"scmMinTlsCipherSuite": null,

"scmMinTlsVersion": null,

"scmSupportedTlsCipherSuites": null,

"scmType": null,

"sitePort": null,

"sitePrivateLinkHostEnabled": null,

"storageType": null,

"supportedTlsCipherSuites": null,

"tracingOptions": null,

"use32BitWorkerProcess": null,

"virtualApplications": null,

"vnetName": null,

"vnetPrivatePortsCount": null,

"vnetRouteAllEnabled": null,

"webSocketsEnabled": null,

"websiteTimeZone": null,

"winAuthAdminState": null,

"winAuthTenantState": null,

"windowsConfiguredStacks": null,

"windowsFxVersion": null,

"xManagedServiceIdentityId": null

},

"slotSwapStatus": null,

"state": "Running",

"storageAccountRequired": false,

"suspendedTill": null,

"tags": {

"Environment": "Development"

},

"targetSwapSlot": null,

"trafficManagerHostNames": null,

"type": "Microsoft.Web/sites",

"usageState": "Normal",

"virtualNetworkSubnetId": null,

"vnetContentShareEnabled": false,

"vnetImagePullEnabled": false,

"vnetRouteAllEnabled": false,

"workloadProfileName": null

}

1. **API APP**

cloud250310 [ ~ ]$ az webapp create --name exampleAPIAppRani --resource-group exampleRGPriyanka --plan exampleAppServicePlan --tags Environment=Development

{

"availabilityState": "Normal",

"clientAffinityEnabled": true,

"clientCertEnabled": false,

"clientCertExclusionPaths": null,

"clientCertMode": "Required",

"cloningInfo": null,

"containerSize": 0,

"customDomainVerificationId": "26B353D885EA0C999F26ABEAE5756A28855CF41E390E61D048A7A867E9114A3F",

"dailyMemoryTimeQuota": 0,

"daprConfig": null,

"defaultHostName": "exampleapiapprani.azurewebsites.net",

"enabled": true,

"enabledHostNames": [

"exampleapiapprani.azurewebsites.net",

"exampleapiapprani.scm.azurewebsites.net"

],

"endToEndEncryptionEnabled": false,

"extendedLocation": null,

"ftpPublishingUrl": "ftps://waws-prod-sy3-077.ftp.azurewebsites.windows.net/site/wwwroot",

"hostNameSslStates": [

{

"certificateResourceId": null,

"hostType": "Standard",

"ipBasedSslResult": null,

"ipBasedSslState": "NotConfigured",

"name": "exampleapiapprani.azurewebsites.net",

"sslState": "Disabled",

"thumbprint": null,

"toUpdate": null,

"toUpdateIpBasedSsl": null,

"virtualIPv6": null,

"virtualIp": null

},

{

"certificateResourceId": null,

"hostType": "Repository",

"ipBasedSslResult": null,

"ipBasedSslState": "NotConfigured",

"name": "exampleapiapprani.scm.azurewebsites.net",

"sslState": "Disabled",

"thumbprint": null,

"toUpdate": null,

"toUpdateIpBasedSsl": null,

"virtualIPv6": null,

"virtualIp": null

}

],

"hostNames": [

"exampleapiapprani.azurewebsites.net"

],

"hostNamesDisabled": false,

"hostingEnvironmentProfile": null,

"httpsOnly": false,

"hyperV": false,

"id": "/subscriptions/ef7bf398-50f0-4ac0-a233-43eb9543031c/resourceGroups/exampleRGPriyanka/providers/Microsoft.Web/sites/exampleAPIAppRani",

"identity": null,

"inProgressOperationId": null,

"isDefaultContainer": null,

"isXenon": false,

"keyVaultReferenceIdentity": "SystemAssigned",

"kind": "app",

"lastModifiedTimeUtc": "2025-06-26T12:55:05.736666",

"location": "Australia East",

"managedEnvironmentId": null,

"maxNumberOfWorkers": null,

"name": "exampleAPIAppRani",

"outboundIpAddresses": "20.53.80.153,20.53.124.133,20.53.130.174,20.53.131.181,20.53.131.217,20.53.132.47,20.211.64.3",

"possibleOutboundIpAddresses": "20.53.80.153,20.53.124.133,20.53.130.174,20.53.131.181,20.53.131.217,20.53.132.47,4.237.152.244,20.53.129.35,20.53.132.78,20.53.132.107,20.53.125.110,20.53.132.117,20.53.132.125,20.53.131.73,20.53.126.230,20.53.132.140,20.53.132.153,20.53.132.163,20.53.132.230,20.53.133.8,20.53.133.34,20.53.133.97,20.53.133.131,20.53.133.154,20.53.133.193,20.193.11.198,20.53.133.212,20.53.133.253,20.193.31.39,20.53.133.254,20.53.134.32,20.211.64.3",

"publicNetworkAccess": null,

"redundancyMode": "None",

"repositorySiteName": "exampleAPIAppRani",

"reserved": false,

"resourceConfig": null,

"resourceGroup": "exampleRGPriyanka",

"scmSiteAlsoStopped": false,

"serverFarmId": "/subscriptions/ef7bf398-50f0-4ac0-a233-43eb9543031c/resourceGroups/exampleRGPriyanka/providers/Microsoft.Web/serverfarms/exampleAppServicePlan",

"siteConfig": {

"acrUseManagedIdentityCreds": false,

"acrUserManagedIdentityId": null,

"alwaysOn": false,

"antivirusScanEnabled": null,

"apiDefinition": null,

"apiManagementConfig": null,

"appCommandLine": null,

"appSettings": null,

"autoHealEnabled": null,

"autoHealRules": null,

"autoSwapSlotName": null,

"azureMonitorLogCategories": null,

"azureStorageAccounts": null,

"clusteringEnabled": false,

"connectionStrings": null,

"cors": null,

"customAppPoolIdentityAdminState": null,

"customAppPoolIdentityTenantState": null,

"defaultDocuments": null,

"detailedErrorLoggingEnabled": null,

"documentRoot": null,

"elasticWebAppScaleLimit": 0,

"experiments": null,

"fileChangeAuditEnabled": null,

"ftpsState": null,

"functionAppScaleLimit": null,

"functionsRuntimeScaleMonitoringEnabled": null,

"handlerMappings": null,

"healthCheckPath": null,

"http20Enabled": false,

"http20ProxyFlag": null,

"httpLoggingEnabled": null,

"ipSecurityRestrictions": [

{

"action": "Allow",

"description": "Allow all access",

"headers": null,

"ipAddress": "Any",

"name": "Allow all",

"priority": 2147483647,

"subnetMask": null,

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"push": null,

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"vnetPrivatePortsCount": null,

"vnetRouteAllEnabled": null,

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"websiteTimeZone": null,

"winAuthAdminState": null,

"winAuthTenantState": null,

"windowsConfiguredStacks": null,

"windowsFxVersion": null,

"xManagedServiceIdentityId": null

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"targetSwapSlot": null,

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"usageState": "Normal",

"virtualNetworkSubnetId": null,

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