
Document

Portfolio of Work: Solution Provisioning – Public Cloud Provisioning

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Public Cloud Provisioning

Provision a Public Cloud Solution

The screenshot displays two side-by-side windows illustrating the provisioning process.

Left Window (Windows Task Manager):

- Shows system information for a Windows 10 Pro system.
- Device name: jeanphilippels
- Processor: 11th Gen Intel(R) Core(TM) i7-11800H @ 2.30 GHz
- Installed RAM: 64.0 GB (63.6 GB usable)
- Initial domain name: jpltestdev.onmicrosoft.com

Right Window (Microsoft Azure Portal - Create a tenant):

- Validation passed.
- Tenant type: Azure AD B2C
- Organization name: JeanPhilippe Test Dev
- Initial domain name: jpltestdev.onmicrosoft.com (highlighted with a red box)
- Location: New Zealand
- Subscription: Azure for Students
- Resource group: StorageDev
- Resource group location: Southeast Asia

Bottom Navigation:

- Create (highlighted with a red box)
- < Previous
- Next >

Notifications (Right Panel):

- Create tenant:** Tenant creation was successful. Click here to navigate to your new tenant: JeanPhilippe Test Dev. (highlighted with a red box)
- Create resource group:** Resource group StorageDev creation was successful.

Create and configure users to allow Organizational users to authenticate by using cloud services

The screenshot displays two separate browser sessions side-by-side.

Top Browser Session (Microsoft Entra admin center):

- The URL is https://entra.microsoft.com/#view/Microsoft_AAD_IAM/IdentityProtectionMenuBlade/~/MfaPolicy/fromNav/.
- The page title is "Identity Protection | Multifactor authentication registration policy".
- The left sidebar shows "Protection" selected under "Identity".
- The main content area shows a policy named "Multifactor authentication registration policy" with "2 users included".
- The "Assignments" section lists "Users" with "2 users included".
- The "Controls" section includes a checked checkbox for "Require Microsoft Entra ID multifactor authentication registration".
- The "Selected users and groups" section shows two users: "jamtalk2" and "jp1".
- A note at the bottom states: "Multifactor authentication registration policy only affects cloud-based Azure multifactor authentication. If you have multifactor authentication server it will not be affected."
- The "Policy enforcement" section has "Enabled" selected.

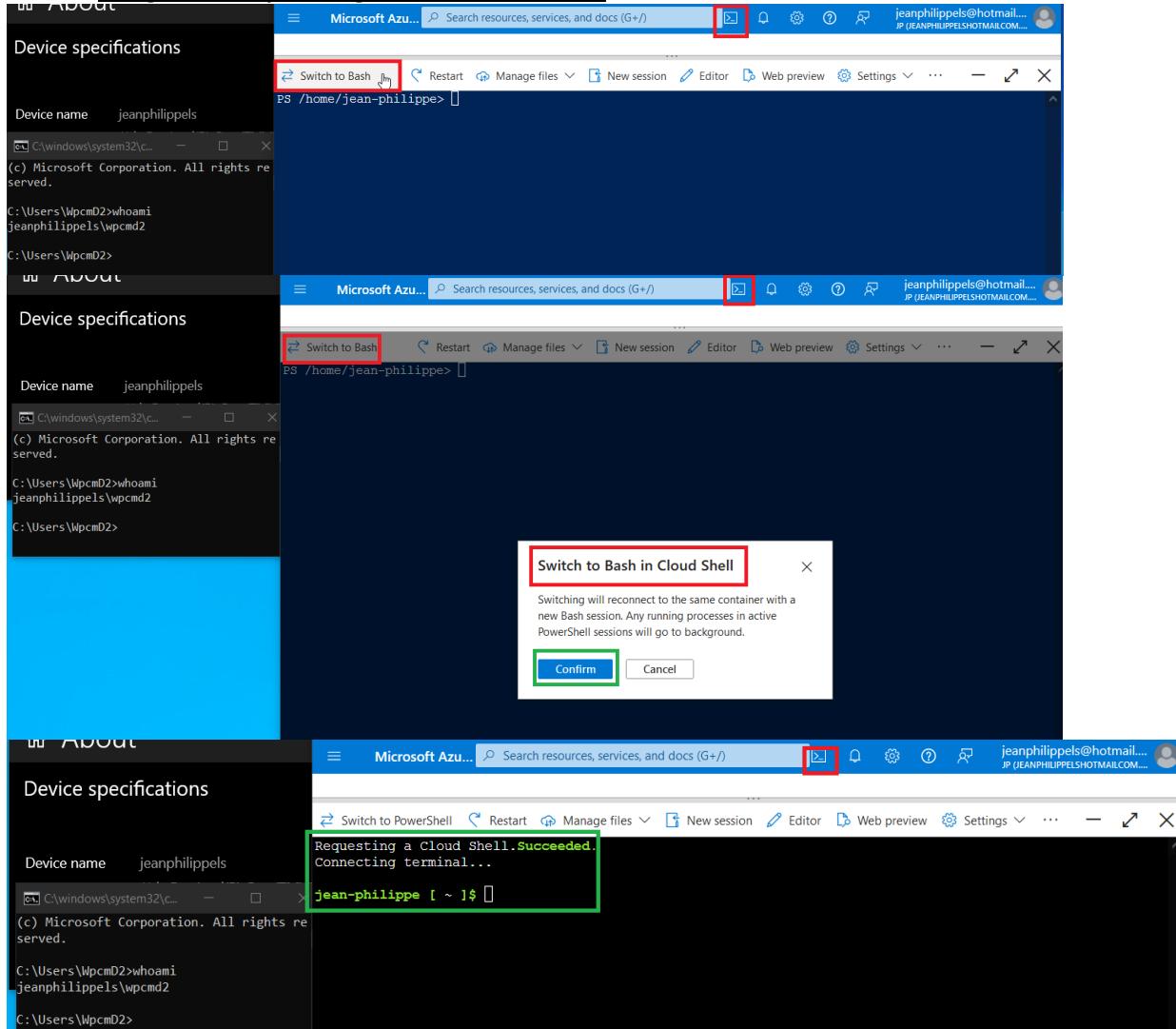
Bottom Browser Session (Microsoft Azure portal):

- The URL is <https://portal.azure.com/#home>.
- The page title is "Welcome to Azure!".
- The top right corner shows the user email "jamtalk2@jeanphilippe...".
- An orange button labeled "Login with user jamtalk2" is visible.
- The main content area features three promotional cards: "Start with an Azure free trial", "Manage Microsoft Entra ID", and "Access student benefits".
- The "Azure services" section lists various services with icons: Create a resource, Quickstart Center, Azure AI services, Kubernetes services, Virtual machines, App Services, Storage accounts, SQL databases, Azure Cosmos DB, and More services.

Create user groups with assigned and dynamic membership.

Assign roles to user accounts and set permissions to some of the tenant resources.

- Assigned Group - Using Bash in Cloud Shell :



About

See details in Windows Security

Device specifications

Device name: jeanphilippe

Processor: 11th Gen Intel(R) Core i5-1135G7, 2.30 GHz

Installed RAM: 64.0 GB (63.6 GB usable)

Microsoft Windows (Version 10 Pro)

(c) Microsoft Corporation. All rights reserved.

C:\Users\WpcmD2\whoami

jeanphilippe@wpcmd2

C:\Users\WpcmD2>

```

jeanphilippe [ ~ ]$ DOMAINNAME=$(az ad signed-in-user show --query 'userPrincipalName' | cut -d '@' -f 2 | sed 's/\//\\')
jeanphilippe [ ~ ]$ echo $DOMAINNAME
jeanphilippe@wpcmd2:~$ az ad user create --display-name "Isabel Garcia" --password "Helo123!" --user-principal-name isabel@$DOMAINNAME --force-change-password-next-sign-in true
jeanphilippe [ ~ ]$ az ad user list --output table
Display Name User Principal Name Surname
Given Name Preferred Language
Lo Siou
Isabel Garcia isabel@jeanphilippe@hotmail.com.onmicrosoft.com
Jean-Philippe Lo Siou Jean-PhilippeLoSiou@jeanphilippeTechtorium.onmicrosoft.com Jean-PhilippeLoSiou@jeanphilippeTechtorium.onmicrosoft.com
Jean-Philippe Lo Siou admin@jeanphilippe@hotmail.com.onmicrosoft.com
Jean-Philippe en Lo Siou
Joseph Price JosephPrice@jeanphilippe@hotmail.com.onmicrosoft.com
SupportUser SupportUser@jeanphilippe@hotmail.com.onmicrosoft.com
userfin01 userfin01@jeanphilippe@hotmail.com.onmicrosoft.com
userhr01 userhr01@jeanphilippe@hotmail.com.onmicrosoft.com
usersales01 usersales01@jeanphilippe@hotmail.com.onmicrosoft.com
jeanphilippe [ ~ ]$ 
```

➤ Azure CLI used :

- DOMAINNAME=\$(az ad signed-in-user show --query 'userPrincipalName' | cut -d '@' -f 2 | sed 's/\//\\')
- az ad user create --display-name "Isabel Garcia" --password "Helo123!" --user-principal-name isabel@\$DOMAINNAME --force-change-password-next-sign-in true
- az ad user list --output table

● Creating Group name “Junior Admins Group” in Azure CLI :

Device name: jeanphilippe

Microsoft Azure

Switch to PowerShell Restart Manage files New session Editor Web preview Settings Help

jeanphilippe [~]\$ az ad group create --display-name "Junior Admins Group" --mail-nickname "JuniorAdminsGroup"

```

jeanphilippe [ ~ ]$ az ad group create --display-name "Junior Admins Group" --mail-nickname "JuniorAdminsGroup"
{"odata.context": "https://graph.microsoft.com/v1.0/$metadata#groups($entity",
"classification": null,
"createdDateTime": "2024-05-26T23:24:31Z",
"creationOptions": [],
"deletedDateTime": null,
"description": null,
"displayName": "Junior Admins Group",
"expirationDateTime": null,
"groupTypes": [],
"id": "2b3ae926-4c59-438c-9eda-7d15e8d6f8c5",
"isAssignableToRole": null,
"mail": null,
"mailEnabled": false,
"mailNickname": "JuniorAdminsGroup",
"membershipRule": null,
"membershipRuleProcessingState": null,
"onPremisesDomainName": null,
"onPremisesLastSyncDateTime": null,
"onPremisesNetBiosName": null,
"onPremisesProvisioningErrors": [],
"onPremisesSamAccountName": null,
"onPremisesSecurityIdentifier": null,
"onPremisesSyncEnabled": null,
"preferredDatatLocation": null,
"preferredLanguage": null,
"proxyAddresses": [],
"renewedDateTime": "2024-05-26T23:24:31Z",
"resourceBehaviorOptions": [],
"resourceCreationOptions": []} 
```

```

Device name      jeanphilippe
C:\Windows\system32> az ad group create --display-name "Junior Admins Group" --mail-nickname "JuniorAdminsGroup"
{
  "odata.context": "https://graph.microsoft.com/v1.0/$metadata#groups/$entity",
  "classification": null,
  "createdDateTime": "2024-05-26T23:24:31Z",
  "creationOptions": [],
  "deletedDateTime": null,
  "description": null,
  "displayName": "Junior Admins Group",
  "expirationDateTime": null,
  "groupTypes": [],
  "id": "2b5ae926-4c59-438c-9eda-7d15e8d6f8c5",
  "isAssignableToRole": null,
  "mail": null,
  "mailEnabled": false,
  "mailNickname": "JuniorAdminsGroup",
  "membershipRule": null,
  "membershipRuleProcessingState": null,
  "onPremisesDomainName": null,
  "onPremisesLastSyncDateTime": null,
  "onPremisesNetBiosName": null,
  "onPremisesProvisioningErrors": [],
  "onPremisesSamAccountName": null,
  "onPremisesSecurityIdentifier": null,
  "onPremisesSyncEnabled": null,
  "preferredDataLocation": null,
  "preferredLanguage": null,
  "proxyAddresses": [],
  "renewedDateTime": "2024-05-26T23:24:31Z",
  "resourceBehaviorOptions": [],
  "resourceProvisioningOptions": []
}

```

➤ Azure CLI used :

- az ad group create --display-name "Junior Admins Group" --mail-nickname "JuniorAdminsGroup"
- az ad group list -o table

● Associating the member “Isabel Garcia” to the group name “Junior Admins Group” in Azure CLI :

```

Requesting a Cloud Shell. Succeeded.
Connecting terminal...
jeanphilippe [ ~ ]$ az ad user list --filter "displayname eq 'Isabel Garcia'"
jeanphilippe [ ~ ]$ echo $USER
[ {
  "businessPhones": [],
  "displayName": "Isabel Garcia",
  "givenName": null,
  "id": "3b4792fc-02c6-46b1-9267-f8fdd382654
  "jobTitle": null,
  "mail": null,
  "mobilePhone": null,
  "officeLocation": null,
  "preferredLanguage": null,
  "surname": null,
  "userPrincipalName": "isabel@jeanphilippelshotmail.onmicrosoft.com" }
]
jeanphilippe [ ~ ]$ $OBJECTID=$(echo $USER | jq '.[].id' | tr -d "'")
jeanphilippe [ ~ ]$ az ad group member add --group "Junior Admins Group" --member-id $OBJECTID
jeanphilippe [ ~ ]$ az ad group member list --group "Junior Admins Group"
[ {
  "@odata.type": "#microsoft.graph.user",
  "businessPhones": [],
  "displayName": "Isabel Garcia",
  "givenName": null,
  "id": "3b4792fc-02c6-46b1-9267-f8fdd382654",
  "jobTitle": null,
  "mail": null,
  "mobilePhone": null,
  "officeLocation": null,
  "preferredLanguage": null,
  "surname": null,
  "userPrincipalName": "isabel@jeanphilippelshotmail.onmicrosoft.com"
}
]
jeanphilippe [ ~ ]$ 

```

➤ Azure CLI used :

- USER=\$(az ad user list --filter "displayname eq 'Isabel Garcia")
- OBJECTID=\$(echo \$USER | jq '.[].id' | tr -d "")
- az ad group member add --group "Junior Admins Group" --member-id \$OBJECTID
- az ad group member list --group "Junior Admins Group"

Dynamic Group - Using Powershell :

- Remove-Module AzureAD -ErrorAction SilentlyContinue
- Install-Module AzureADPreview -Scope CurrentUser -AllowClobber
- New-AzureADMSGroup -DisplayName "DynamicGroup_jpls" -MailEnabled \$False -SecurityEnabled \$True -GroupTypes "DynamicMembership" -MembershipRule "(user.department -contains ""IT"")"

Your PC is monitored and

See details in Windows Security

Device specifications

Device name	jeanphilipps
Processor	11th Gen Intel(R) Core i5-1135G7 2.30 GHz
Installed RAM	64.0 GB (63.6 GB usable)
Device ID	C:\windows\system32\cmd.exe
Product	Microsoft Windows [Version 10.0.22000.1932] (c) Microsoft Corporation
System	C:\Users\WpcmD2>whoami jeanphilipps\wpcmd2 C:\Users\WpcmD2>

Groups | All groups

Default Directory

New group Download groups Refresh Manage view Delete Got feedback?

Search mode Contains

6 groups found

Name ↑	Object Id	Group type
D DynamicGroup_jpls	b74d6b1f-148a-4fc-a-aa77-66bbf3b91d35	Security
JA Junior Admins	eba8f825-c4e0-4148-afb4-844f5db3b657	Security

Switch to Bash Restart Manage files New session Editor Web preview Settings Help

```
PS /home/fake> Remove-Module AzureAD -ErrorAction SilentlyContinue
PS /home/fake> Install-Module AzureADPreview -Scope CurrentUser -AllowClobber
PS /home/fake> New-AzureADGroup -DisplayName "DynamicGroup_jpls" -MailEnabled $False -SecurityEnabled $True -GroupType "DynamicMembership" -MembershipRule "(user.department -contains "IT"))"
```

Role “Contributor” to Subscription level to “DynamicGroup_jpls” group - Using Powershell :

- \$subid=(Get-AzContext).Subscription.id
- \$subScope = "/subscriptions/\$subid"
- echo \$subScope
- \$group = Get-AzADGroup -Filter "startsWith(DisplayName, 'DynamicGroup_jpls')"
- \$groupId=\$group.Id
- echo \$groupId
- \$role = Get-AzRoleDefinition -Name "Contributor"
- New-AzRoleAssignment -ObjectId \$groupId -RoleDefinitionName \$role.name -Scope \$subScope

Device name jeanphilipps

Processor 11th Gen Intel(R) Core i5-1135G7 2.30 GHz

Installed RAM 64.0 GB (63.6 GB usable)

Device ID C:\windows\system32\cmd.exe

Product Microsoft Windows [Version 10.0.22000.1932] (c) Microsoft Corporation. All rights reserved.

System C:\Users\WpcmD2>whoami
jeanphilipps\wpcmd2
C:\Users\WpcmD2>

```
PS /home/fake> $subid=(Get-AzContext).Subscription.id
PS /home/fake> $subScope = "/subscriptions/$subid"
PS /home/fake> echo $subScope
/subscriptions/6df745c1-e076-4ad0-9a27-19c8213b1c1b
PS /home/fake> $group = Get-AzADGroup -Filter "startsWith(DisplayName, 'DynamicGroup_jpls')"
PS /home/fake> $groupId=$group.Id
PS /home/fake> echo $groupId
b74d6b1f-148a-4fc-a-aa77-66bbf3b91d35
PS /home/fake> $role = Get-AzRoleDefinition -Name "Contributor"
PS /home/fake> New-AzRoleAssignment -ObjectId $groupId -RoleDefinitionName $role.Id -Scope $subScope
New-AzRoleAssignment: Cannot find role definition with name 'b24988ac-6180-42a0-ab88-20f7382dd24c'.
PS /home/fake> New-AzRoleAssignment -ObjectId $groupId -RoleDefinitionName $role.name -Scope $subScope
RoleAssignmentName : 8a652e97-6f20-44ca-8f86-84bc14f7a770
RoleAssignmentId : /subscriptions/6df745c1-e076-4ad0-9a27-19c8213b1c1b/providers/Microsoft.Authorization/roleAssignments/8a652e97-6f20-44ca-8f86-84bc14f7a770
Scope : /subscriptions/6df745c1-e076-4ad0-9a27-19c8213b1c1b
DisplayName : DynamicGroup_jpls
SignInName :
RoleDefinitionName : Contributor
RoleDefinitionId : b24988ac-6180-42a0-ab88-20f7382dd24c
ObjectId : b74d6b1f-148a-4fc-a-aa77-66bbf3b91d35
ObjectType : Group
CanDelegate : False
Description :
ConditionVersion :
Condition :
```

The screenshot shows the Microsoft Azure interface for managing role assignments. The top navigation bar includes 'Home', 'Management groups', 'Azure for Students', and a search bar. Below the navigation is a header for 'Azure for Students | Access control (IAM)' with tabs for 'Role assignments', 'Roles', 'Deny assignments', and 'Classic administrators'. A message indicates a retirement date of 8/31/2024. The main area displays 'Number of role assignments for this subscription' (19) and a table of assignments. The table has columns: Name, Type, Role, Scope, and Condition. One entry is highlighted with a red box: 'DynamicGroup_jpls' (Type: Group, Role: Contributor, Scope: This resource, Condition: None).

The screenshot shows the Microsoft Azure interface for managing group members. The top navigation bar includes 'Home', 'Groups', 'All groups', and 'DynamicGroup_jpls'. The main area shows an 'Overview' section with 'Direct members' and 'All members' tabs. The 'Members' tab is selected and highlighted with a red box. A table lists members with columns: Name, Type, Email, and User type. One member is highlighted with a green box: 'jpls_dynamic' (Name: jpls_dynamic, Type: User, Email: Not shown, User type: Member).

Create management groups that will help manage access, policy and compliance across multiple subscriptions.

The screenshot shows the Azure Management groups interface. On the left, there is a sidebar with device specifications for a Windows 10 Pro machine. The main area displays a list of management groups under a Tenant Root Group. The groups listed are:

Name	Type	ID
Tenant Root Group	Management group	b243593f-31a5-4569-a98f-a5061a2e0688
Azure for Students	Subscription	b5d7dfa6-4f9b-4a46-b96d-27e7b04cc298
mgt1	Management group	mgt1
mgt2	Management group	mgt2

Create a Windows server VM in a new resource group and provision team members with rights to use the newly provisioned machine.

The screenshot shows the Azure Resource groups creation interface. On the left, there is a sidebar with device specifications for a Windows 10 Pro machine. The main area is titled "Create a resource group" and shows the "Basics" step. The "Resource group" field is highlighted with a green box. The "Region" field is also highlighted with a green box. At the bottom, the "Review + create" button is highlighted with a green box.

Microsoft Azure - Resource groups

Resource groups

Showing 1 to 1 of 1 records.

Name	Subscription	Location
AZ500Lab01-jpls	Azure for Students	East US

Notifications

More events in the activity log Dismiss all

- Resource group created Creating resource group 'AZ500Lab01-jpls' in subscription 'Azure for Students' succeeded. Go to resource... Pin to dashboard a few seconds ago

Microsoft Azure - Virtual machines

Create a virtual machine

Validation passed

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Cost given below is an estimate and not the final price. For all your pricing needs, please use the pricing calculator.

Price

1 X Standard D2s v3 by Microsoft Subscription credits apply 0.0188 USD/hr Pricing for other VM sizes

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.

< Previous Next > Create Download a template for automation Give feedback

Microsoft Azure - CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240624232707

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.Windows... Start time: 6/24/2024, 11:29:50 PM

Subscription: Azure for Students Correlation ID: e37b3864-020e-451f-b7d1-cdf6933a1a05

Resource group: AZ500Lab01-jpls

Deployment details

Resource	Type	Status
VM01	Microsoft.Compute/vm	OK
vm01960	Microsoft.Network/ne...	Created
VM01-vnet	Microsoft.Network/vir...	OK
VM01-ip	Microsoft.Network/pu...	OK
VM01-nsg	Microsoft.Network/ne...	OK

Next steps Setup auto-shutdown Recommended

Notifications

More events in the activity log Dismiss all

- Deployment succeeded Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240624232707' to resource group 'AZ500Lab01-jpls' was successful. Go to resource... Pin to dashboard a few seconds ago
- Resource group created Creating resource group 'AZ500Lab01-jpls' in subscription 'Azure for Students' succeeded. Go to resource group Pin to dashboard 5 minutes ago

Device name: jeanphilipps

Processor: 11th Gen Intel(R) i7-12700K 2.30 GHz

Installed RAM: 64.0 GB (63.6 GB usable)

Device ID: C:\windows\system...

Product ID: (c) Microsoft Corporation. All rights reserved.

System type: Pen and touch

C:\Users\Wpcmd2>whoami
jeanphilipps\wpcmd2

Copy C:\Users\Wpcmd2>

AZ500Lab01-jpls | Access control (IAM)

Add role assignment, Add assignments, Roles, Deny assignments, Classic administrators

Access control (IAM)

Overview, Activity log, Tags, Resource visualizer, Events, Settings, Deployments

Add role assignment, Add co-administrators, Add custom role, View my level of access to this resource, View my access, Check access, Check access

Check access

Review the level of access a user, group, service principal, or managed identity has to this resource. Learn more

Check access

Device name: jeanphilipps

Processor: 11th Gen Intel(R) 2.30 GHz

C:\windows\system32\cmd.exe

Microsoft Windows [Version 10 (c) Microsoft Corporation. All rights reserved.]

C:\Users\Wpcmd2>whoami
jeanphilipps\wpcmd2

C:\Users\Wpcmd2>

Add role assignment

Role Members Conditions Review + assign

Role: Virtual Machine User Login

Scope: /subscriptions/8de89c41-7afc-4788-9666-7d97d6c02cab/resourceGroups/AZ500Lab01-jpls

Members:

Name	Object ID	Type
ServiceDesk	10bd095a-1b77-4f10-8416-c4cdef48ce36	Group

Description: No description

Device name: jeanphilipps

Processor: 11th Gen Intel(R) 2.30 GHz

C:\windows\system32\cmd.exe

Microsoft Windows [Version 10 (c) Microsoft Corporation. All rights reserved.]

C:\Users\Wpcmd2>whoami
jeanphilipps\wpcmd2

C:\Users\Wpcmd2>

AZ500Lab01-jpls | Access control (IAM)

Check access, Role assignments, Roles, Deny assignments

Number of role assignments for this subscription

All Job function (0) Privileged (6)

Search by name or email

Type: All, Role: All, Scope: All scopes, Group by: Role

6 items (6 Users)

Name	Type	Role	Scope
Owner (4)			
admin.jpls	User	Owner	Man (Inher)
admin.jpls	User	Owner	Man (Inher)
admin.jpls	User	Owner	Man (Inher)
admin.jpls	User	Owner	Man (Inher)

Notifications

More events in the activity log Dismiss all

Added Role assignment ServiceDesk was added as Virtual Machine User Login for AZ500Lab01-jpls. a few seconds ago

Device name: jeanphilipps

Processor: 11th Gen Intel(R) 2.30 GHz

C:\windows\system32\cmd.exe

Microsoft Windows [Version 10 (c) Microsoft Corporation. All rights reserved.]

C:\Users\Wpcmd2>whoami
jeanphilipps\wpcmd2

C:\Users\Wpcmd2>

AZ500Lab01-jpls | Access control (IAM)

Check access, Role assignments

My access

View my level of access to this resource

View my access

Check access

Review the level of access a user, group, service principal, or managed identity has to this resource. Learn more

Check access

ServiceDesk assignments - AZ500Lab01-jpls

Current role assignments Eligible assignments

Assignments for the selected user, group, service principal, or managed identity at this scope or inherited to this scope

Search by assignment name or description

Role assignments (1)

Role	Description	Scope	Group assig
Virtual Machine User Login	View Virtual Machines in the portal and login as a regular user.	This resource	

Deny assignments (0)

Device name: jeanphilippe
Processor: 11th Gen Intel(R) 2.30 GHz

Number of role assignments for this subscription: 4

Name	Type	Role	Scope	Condition
Virtual Machine User Login (1)	Group	Virtual Machine User Login	This resource	None

Enterprise Mobility

Create and configure virtual networks with multiple subnets.

Networks must be configured in these ranges

- IPv4 address space: 10.40.0.0/20
- Subnet address range: Subnet0 - 10.40.0.0/24
- Subnet1 - 10.40.1.0/24

Device specifications

Device name: jeanphilippe
Processor: 11th Gen Intel(R) 2.30 GHz
Installed RAM: 64.0 GB (63.6 GB usable)
Device ID: 4BE4563B-1E2D-4322-B683-54C697E9B2DF
Product ID: 00330-75101-14431-AA0EM
System type: 64-bit operating system, x64-based processor
Pen and touch: No pen or touch input is available for this display

Virtual networks

Name	Resource group	Location	Subscription
vnSR1	RG_VN2	East US	Azure for Students

vnSR1 | Address space

Address space	Address range	Address count
10.40.0.0/20	10.40.0.0 - 10.40.15.255	4,096

Your PC is monitored and protected.

Device specifications

- Processor: 11th Gen Intel(R) Core(TM) i7-11800H @ 2.30GHz
- Installed RAM: 64.0 GB (63.6 GB usable)
- System type: 64-bit operating system, x64-based processor
- Pen and touch: No pen or touch input is available for this display

Virtual networks

vnsR1 Subnets

Name	IPv4	IPv6	Available IPs	Delegated to
SR1Subnet0	10.40.0.0/24	-	251	-
SR1Subnet1	10.40.1.0/24	-	251	-

Configure static assignment of public and private IP addresses to all network interfaces of the virtual machines.

- Static Public IP Addresses :**

Windows Security

Public IP addresses

SR12Manual_PUB_IP Configuration

IP address assignment: Static

IP address: 52.149.160.120

Idle timeout (minutes): 0

DNS name label (optional):

- Static Private IP Addresses :**

Windows Security

vnsr1-vm1397 IP configurations

Virtual network: vnsR1

Gateway load balancer: None

Subnet: SR1Subnet0 (10.40.0.0/24) 250 free IP addresses

ipconfig

Name	IP Version	Type	Private IP Address	Public IP Address
ipconfig	IPv4	Primary	10.40.0.4 (Static)	52.226.70.132 (vnsR1-vm1-ip)

Configure network security groups to allow for restricted access to virtual machines.

Associate the newly created network security group with both Network Interfaces.

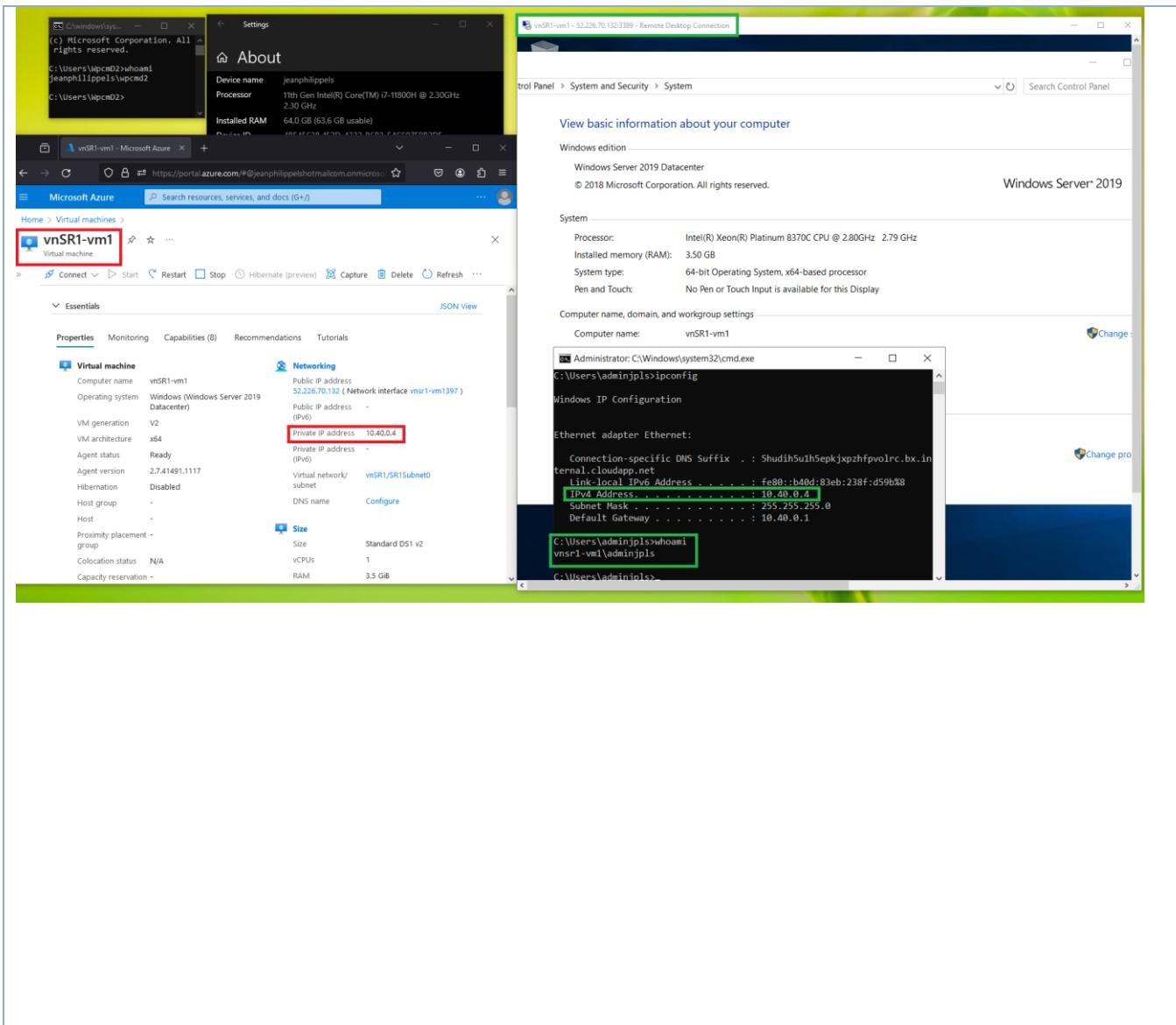
Ensure no unwanted access to virtual machines.

Inbound security rules (Top Screenshot):

Priority	Name	Port	Protocol	Source	Destination	Action
300	RDP_incoming	3389	TCP	Any	Any	Allow
65000	AllowWhitelisted	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancer	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Network interfaces (Bottom Screenshot):

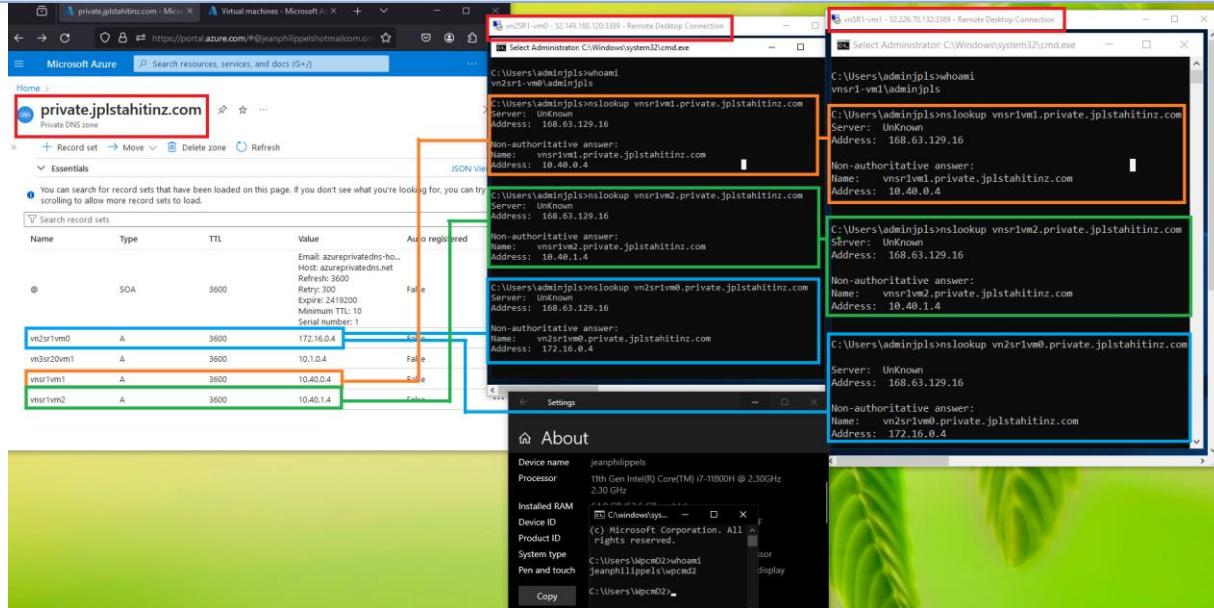
Name	Public IP address	Private IP address	Virtual machine
vnsr1-vm1397	52.226.70.132	10.40.0.4	vnSR1-vm1
vn2sr1-vm0153	52.149.160.120	172.16.0.4	vn2SR1-vm0
vnsr1-vm2249	52.186.76.254	10.40.1.4	vnSR1-vm2



Configure DNS name resolution within a virtual network by using private DNS zones.

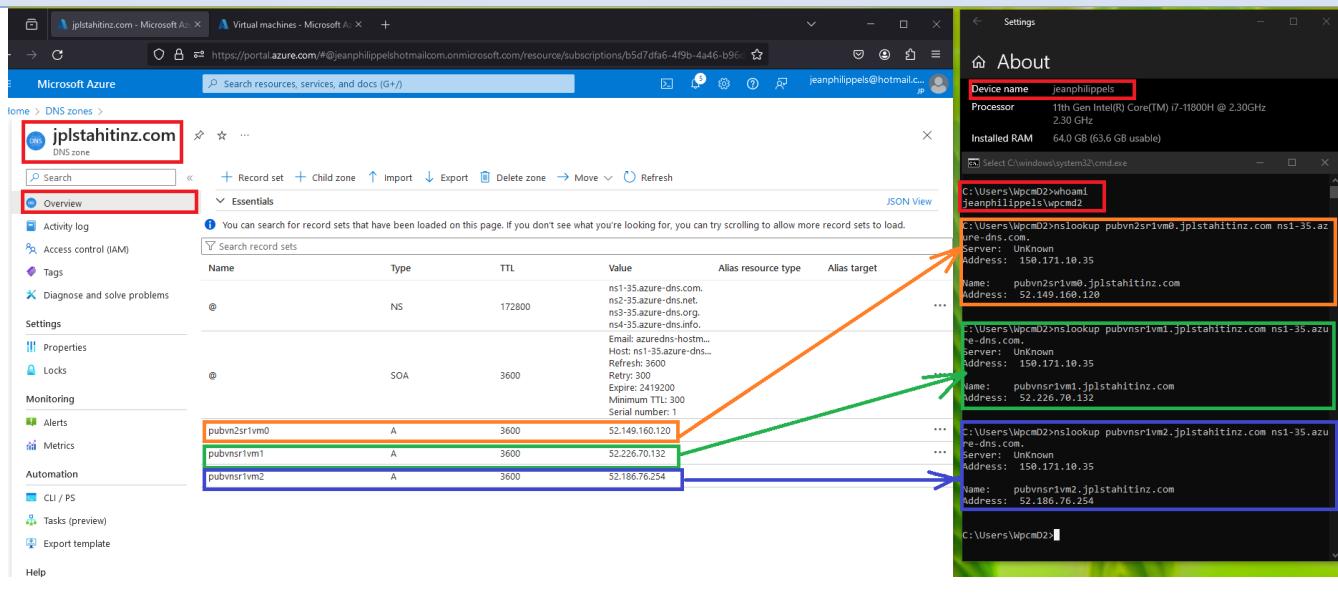
Configure "A" records for each of the VM's.

Virtual machines must be accessible from anywhere.



Configure external DNS name resolution by using public DNS zones.

Use domain name search to identify a domain name that is not in use and configure "A" records. Virtual machines must be accessible from anywhere.



Enterprise Storage

Deploy a storage account into the subscription.

Accessible and configured for use inside the organisation

The screenshot displays two side-by-side Azure interface windows. The left window shows deployment details for a storage account named 'storageaccountjpls_1719232439824'. It indicates that the deployment is complete, with three resources of type 'Microsoft.Storage/storageAccounts' in 'OK' status. The right window shows the 'Networking' blade for the same storage account. Under 'Public network access', the 'Disabled' option is selected. Other options include 'Enabled from all networks' and 'Enabled from selected virtual networks and IP addresses'. The 'Networking' tab is highlighted in red.

Create a container that will contain unstructured data that will be used to stream data to our clients.

Must be configured to contain large amounts of documents and video's.

The screenshot shows the Microsoft Azure portal interface. On the left, a sidebar displays system information for a device named 'jeanphilipps'. In the center, the 'sr21blobstorageact | Containers > sr21blobcontainer' page is shown. A red box highlights the 'sr21blobcontainer' name. A green box highlights the 'Access key (Switch to Microsoft Entra user account)' section under 'Authentication method'. Another green box highlights the 'Licensing' section where a file named 'AZ-104T00A-ENU-PowerPoint_07_Manage_Azure_Storage.pptx' is listed. The right side shows the container properties, including its URL (<https://sr21blobstorage...>), type (Block blob), size (4.06 MB), and access tier (Hot (Inferred)).

Configure the unstructured data storage so that only members of the finance department can write content data to it.

The screenshot shows the 'sr21blobcontainer | Access Control (IAM)' page in the Microsoft Azure portal. A red box highlights the 'Access Control (IAM)' link in the left sidebar. The main area shows 'Number of role assignments for this subscription' at 9, with 4 privileged roles assigned. A green box highlights the 'Custom Storage Blob Data Contributor (1)' role entry, which is assigned to the 'Finance' group. Other entries include 'Reader (3)' assigned to 'Finance' and 'HR' groups, and another 'Reader' entry for the 'Management group (inherited)'.

The screenshot shows the 'Finance | Members' page in the Microsoft Azure portal. A red box highlights the 'Finance' group name in the left sidebar. The main area shows the 'All members' tab selected, displaying a table of members. A red box highlights the 'userfin01' user entry, which is listed as a 'User' with the 'Member' user type.

Device name: jeanphilippe...
 Processor: 11th Gen Intel(R) Core(TM)
 Installed RAM: 2.30 GHz
 Installed RAM: 64.0 GB (63.6 GB usable)
 Device ID: C:\windows\system32\cmd.exe
 Product ID: Microsoft Windows [Vers...]
 System type: (c) Microsoft Corporation
 Pen and touch: C:\Users\WpcmD2>whoami
 jeanphilippe...\\wpcmd2
 C:\Users\WpcmD2>

Home > sr21blobstorageact | Containers > **sr21blobcontainer**

Container

Search

Upload Change access level Refresh

Authentication method: Access key (Switch to Microsoft Entra user account)

Location: sr21blobcontainer / Licenses

Search blobs by prefix (case-sensitive)

Add filter

Name

- [-]
- AZ-104T00A-ENU-PowerPoint_07_Manage_Az...
- Finance_doc.pptx

Overwrite if files already exist

Advanced

Upload

Give feedback

jeanphilippe...
 11th Gen Intel(R) Core(TM)
 2.30 GHz
 64.0 GB (63.6 GB usable)
 C:\windows\system32\cmd.exe
 Microsoft Windows [Vers...]
 (c) Microsoft Corporation
 ch C:\Users\WpcmD2>whoami
 jeanphilippe...\\wpcmd2
 C:\Users\WpcmD2>

Home > sr21blobstorageact | Containers > **sr21blobcontainer**

Container

Search

Upload Change access level Refresh Delete Change tier Acquire lease Break lease ...

Authentication method: Access key (Switch to Microsoft Entra user account)

Location: sr21blobcontainer / Licenses

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type
[-]	5/13/2024, 5:57:10 PM	Hot (Inferred)		Block blob
AZ-104T00A-ENU-PowerPoint_07_Manage_Az...	5/13/2024, 5:57:10 PM	Hot (Inferred)		Block blob
Finance_doc.pptx	5/14/2024, 10:25:24 ...	Hot (Inferred)		Block blob

- Userhr01 cannot upload anything into the container :

name: jeanphilippe...
 or: 11th Gen Intel(R) Core(TM)
 RAM: 2.30 GHz
 RAM: 64.0 GB (63.6 GB usable)
 ID: C:\windows\system32\cmd.exe
 ID: Microsoft Windows [Vers...]
 type: (c) Microsoft Corporation
 touch: C:\Users\WpcmD2>whoami
 jeanphilippe...\\wpcmd2
 C:\Users\WpcmD2>

Home > sr21blobstorageact | Containers > **sr21blobcontainer**

Container

Search

Upload Change access level Refresh Delete Change tier Acquire lease Break lease ...

Authentication method: Microsoft Entra user account (Switch to Access key)

Location: sr21blobcontainer / Licenses

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type
[-]	5/13/2024, 5:57:10 PM	Hot (Inferred)		Block blob
AZ-104T00A-ENU-PowerPoint_07_Manage_Az...	5/13/2024, 5:57:10 PM	Hot (Inferred)		Block blob
Finance_doc.pptx	5/14/2024, 10:25:24 ...	Hot (Inferred)		Block blob

Failed to upload blob(s)
 Failed to upload 1 out of 1 blob(s);
 Hr_doc.pptx: This request is not authorized to perform this operation using this permission.

Create a file share where only the members of the sales department can read data, and all administrators have full control.

Must be structured.

The screenshot shows two Azure interfaces. The top interface is the 'Storage browser' for the 'sr21blobstorageact' account, showing a file named 'Sales_doc.pptx' in the 'sr23fileshare' folder. A green box highlights the download confirmation message: 'Download complete Successfully downloaded 'Sales_doc.pptx''. The bottom interface is the 'Access Control (IAM)' section for the 'sr23fileshare' SMB File share, showing role assignments. It lists 'Senior Admins' (Storage Blob Data Owner) and 'Sales' (Storage File Data Privileged Reader) under the 'Storage Blob Data Owner' role. A green box highlights the table of role assignments.

Configure direct connectivity between all virtual machines on designated subnets of virtual networks and the storage account.

Must be easily accessible from the hosted virtual machines.

The screenshot shows the 'Service endpoints' interface for the 'vnet1' virtual network. It lists a single endpoint for 'Microsoft.Storage' in subnet 'vnet1-subnet1' with status 'Succeeded'. A green box highlights the table of service endpoints.

About

Microsoft Azure | Search resources, services, and docs (G+/-) jeanphilipps@hotmail.com JP (jeanphilippe@hotmail.co...)

Home > Virtual networks > vnet2

vnet2 | Service endpoints Virtual network

Search Add Refresh

DDoS protection Firewall Microsoft Defender for Cloud Network manager DNS servers Peering Service endpoints Private endpoints Properties

Filter service endpoints

Service	Subnet	Status	Locations
Microsoft.Storage	1	Succeeded	East US, West US, West US 3
	vnet2-subnet1		

About

Microsoft Azure | Search resources, services, and docs (G+/-) jeanphilipps@hotmail.com jp (jeanphilippe@hotmail.co...)

Home > Storage accounts > sr21blobstorageact

sr21blobstorageact | Networking Storage account

Configure network security for your storage accounts. Learn more

Virtual networks

Virtual Network	Subnet	Address range	Endpoint Status	Resource Group	Subscription
vnet1	1			RG_VM	Azure for Students
	vnet1-subnet1	10.70.0.0/24	✓ Enabled	RG_VM	Azure for Students
vnet2	1			RG_VM	Azure for Students
	vnet2-subnet1	10.80.0.0/24	✓ Enabled	RG_VM	Azure for Students

Firewall

Add IP ranges to allow access from the internet or your on-premises networks. Learn more.

Add your client IP address (125.238.198.200) ⓘ

Address range

IP address or CIDR

Resource instances

Specify resource instances that will have access to your storage account based on their system-assigned managed identity.

Resource type Instance name

Select a resource type Select one or more instances

Exceptions

Allow Azure services on the trusted services list to access this storage account. ⓘ

Allow read access to storage logging from any network

Allow read access to storage metrics from any network

About

Microsoft Azure | Search resources, services, and docs (G+/-) jeanphilipps@hotmail.com jp (jeanphilippe@hotmail.co...)

Home > Storage accounts > sr21blobstorageact

sr21blobstorageact | Storage browser Storage account

sr21blobstorageact

Favorites Recently viewed Blob containers File shares sr23fileshare View all Queues Tables

Message not authorized to perform this operation because we are not connecting from the virtual network

This request is not authorized to perform this operation.

Summary

Session ID	0d3e3dd3610f41a4984d415f1d4a0c8e	Resource ID	/subscriptions/b5d7dfa6-4f9b-4a46-b96d-27e7b84cc29...
Extension	Microsoft_Azure_Storage	Content	FilesBlade
Error code	403	Storage Request ID	4ae011e6-801a-001a-20b5-a5a940000000

Details

- This request is not authorized to perform this operation. RequestId:4ae011e6-801a-001a-20b5-a5a940000000 Time:2024-05-14T04:17:18.5266184Z
- This storage account's 'Firewalls and virtual networks' settings may be blocking access to storage services. Try adding your client IP address ('125.238.198.200') to the firewall exceptions, or by allowing access from 'all networks' instead of 'selected networks'. Learn more

Hosting Web Applications

Create a Cloud hosted Web App.
Ensure all related software is installed correctly and working.

The screenshot shows the Microsoft Azure portal interface. On the left, there's a sidebar titled 'About' with device specifications: Device name (jeanphilippe), Processor (11th Gen Intel(R) Core i7-1165G7), Installed RAM (64.0 GB (63.6 GB usable)), and a list of system paths. The main area is titled 'Create Web App' with a red box highlighting it. It shows a summary for a 'Web App by Microsoft' with a 'Basic (B1) sku' and an estimated price of 12.41 USD/Month. Below this, there are sections for 'Details', 'App Service Plan (New)', 'Monitoring', 'Deployment', and buttons for 'Validating...', '< Previous', 'Next >', and 'Download a template for automation'. To the right, a 'Notifications' panel shows a message: 'Initializing deployment... Running X Initializing template deployment to resource group 'az104-jpls-rg9''. A green box highlights this message.

The screenshot shows the Microsoft Azure portal interface after deployment. The 'About' sidebar remains the same. The main area now displays the 'Microsoft.Web-WebApp-Portal-d3babd66-99a7 | Overview' page, with a red box highlighting the title. It shows a confirmation message: 'Your deployment is complete' with a green checkmark. Deployment details are listed: Deployment name (Microsoft.Web-WebApp-Portal-d3babd66-99a7), Start time (5/21/2024, 5:36:11 PM), Correlation ID (340ee81-e455-4727-af11-7d8a22d2f0c4), and Resource group (az104-jpls-rg9). Below this, a 'Deployment details' table lists resources: sr2-jpls-webapps/ftp, sr2-jpls-webapps/scm, sr2-jpls-webapps, and ASP-az104jplsr9g-83c8, all in 'OK' status. To the right, a 'Notifications' panel shows a message: 'Deployment succeeded' with a green checkmark. Deployment 'Microsoft.Web-WebApp-Portal-d3babd66-99a7' to resource group 'az104-jpls-rg9' was successful. A green box highlights this message. Other notifications include 'Cost Management' and 'Microsoft Defender for Cloud'.

About

Device specifications

Device name	jeanphilipps
Processor	11th Gen Intel(R) Core(TM) 2.30 GHz
Installed RAM	64.0 GB (63.6 GB usable)
Device ID	C:\windows\system32\cmd.exe
Product ID	(c) Microsoft Corporation
System type	Workstation
Pen and touch	C:\Users\WpcmD2>whoami jeanphilipps@wpcmd2 C:\Users\WpcmD2>

Microsoft Azure

sr2-jpls-webapps Web App

Overview

Essentials

- Resource group (move) : az104-jpls-rg9
- Status : Running
- Location (move) : East US
- Subscription (move) : Azure for Students
- Subscription ID : b5d7dfa6-4f9b-4a46-b96d-27e7b84cc298
- Tags (edit) : Add tags

Properties **Monitoring** **Logs** **Capabilities** **Notifications** **Recommendations**

Web app

Name	sr2-jpls-webapps
Publishing model	Code
Runtime Stack	PHP - 8.3

Domains

- Default domain : sr2-jpls-webapps.azurewebsites.net
- Custom domain : Add custom domain

Hosting

Plan Type	App Service plan
Name	ASP-az104jplsg9-83c8
Operating System	Linux
Instance Count	1

Deployment Center

- Deployment logs : View logs
- Last deployment : Loading deployments...
- Deployment provider : None

Application Insights

- Name : Enable Application Insights

Networking

- Virtual IP address : 20.119.16.45
- Outbound IP addresses : 20.253.40.35, 20.253.40.43, 20.253.40.46... Show More
- Additional Outbound IP addresses : 20.253.40.35, 20.253.40.43, 20.253.40.46... Show More
- Virtual network integration : Not configured

About

Device specifications

Device name	jeanphilipps
Processor	11th Gen Intel(R) Core(TM) 2.30 GHz
Installed RAM	64.0 GB (63.6 GB usable)
Device ID	C:\windows\system32\cmd.exe
Product ID	(c) Microsoft Corporation
System type	Workstation
Pen and touch	C:\Users\WpcmD2>whoami jeanphilipps@wpcmd2 C:\Users\WpcmD2>

Microsoft Azure App Service

sr2-jpls-webapps.azurewebsites.net

Microsoft Azure

Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.

PHP Built with PHP

Create a staging deployment slot.

Ensure a test environment is utilized before deploying to production.

- The deployment slots are not available by the default app service plan, the app service plan has to be upgraded to a standard plan:

The screenshot shows two Microsoft Azure interface windows. The top window is titled "sr2-jpls-webapps | Deployment slots" and displays a message: "Upgrade to a standard or premium plan to add slots." A red box highlights the "Deployment slots" link in the left sidebar. The bottom window is titled "sr2-jpls-webapps | Change App Service plan" and shows the "Change App Service plan" section being selected. A green box highlights the "Change App Service plan" link in the left sidebar. Both windows show a "Notifications" panel on the right with a message about changing the app service plan.

About

Device specifications

Device name	jeanphilipps
Processor	11th Gen Intel(R) Core(TM) i5-1135G7 2.30 GHz
Installed RAM	64.0 GB (63.6 GB usable)
Device ID	C:\Windows\system32\cmd.exe
Product ID	Microsoft Windows [Version 10.0.22000.183] (c) Microsoft Corporation. All rights reserved.
C:\Users\WpcmD2>whoami jeanphilipps\wpcmd2	
C:\Users\WpcmD2>	

sr2-jpls-webapps Web App

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud
- Events (preview)
- Better Together (preview)
- Log stream
- Deployment
- Deployment slots
- Deployment Center
- Performance

Essentials

Resource group (move)	az104-jpls-rg9
Status	Running
Location (move)	East US
Subscription (move)	Azure for Students
Subscription ID	b5d7dfa6-4f9b-4a46-b96d-27e7b84cc298
Tags (edit)	Add tags

Default domain sr2-jpls-webapps.azurewebsites.net

App Service Plan ASP-sr2-jpls-webapps-9b08 (\$1: 1)

Operating System Linux

Health Check Not Configured

Properties Monitoring Logs Capabilities Notifications Recommendations

Web app

sr2-jpls-webapps | Deployment slots

Deployment slots

Name	Status	App service plan	Traffic %
sr2-jpls-webapps (PRODUCTION)	Running	ASP-sr2-jpls-webapps-9b...	100
sr2-jpls-webapps-staging	Running	ASP-sr2-jpls-webapps-9b...	0

Notifications

- Creating new slot 'staging' Successfully created slot 'staging' a few seconds ago
- Changing App Service plan Changing App Service plan 5 minutes ago

About

Device specifications

Device name	jeanphilipps
Processor	11th Gen Intel(R) Core™ i5-1135G7 2.30 GHz
Installed RAM	64.0 GB (63.6 GB usable)
Device ID	C:\Windows\system32\cmd.exe
Product ID	Microsoft Windows [Version 10.0.22000.183] (c) Microsoft Corporation. All rights reserved.
C:\Users\WpcmD2>whoami jeanphilipps\wpcmd2	
C:\Users\WpcmD2>	

sr2-jpls-webapps-staging.azurewebsites.net

Microsoft Azure

Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.

php Built with PHP

Configure a username and password for the web application.

Secure the application to only authorised personnel.

The screenshot shows the Microsoft Azure Deployment Center for the 'staging (sr2-jpls-webapps/staging)' slot. The left sidebar includes sections like About, Device specifications, Deployment slots, Deployment Center (which is highlighted with a red box), Performance, Settings, and more. The main content area shows deployment logs, a Local Git section (highlighted with a red box) containing a Git Clone Uri, and a Build section. A green box highlights a notification message: "Updating publishing user credentials" with the sub-message "Successfully updated publishing user credentials" and a timestamp "3 minutes ago".

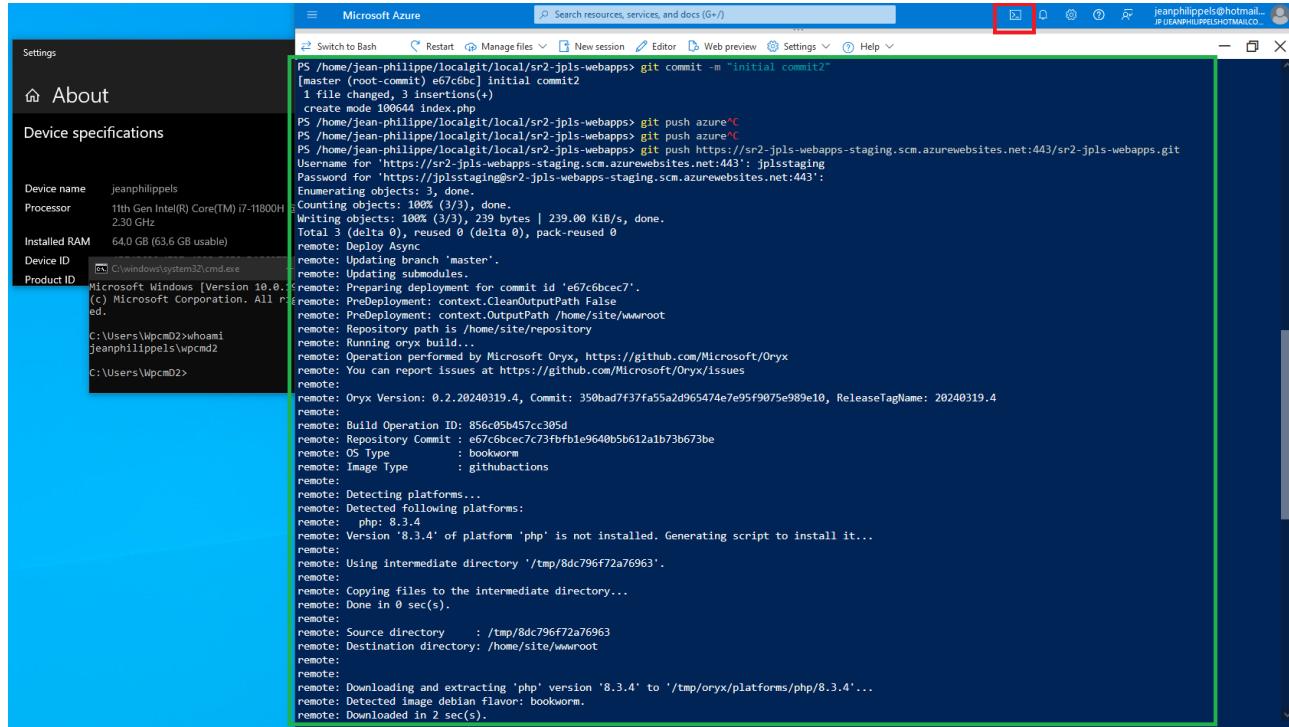
- Configuration of local GIT with username and password :

The screenshot shows the Microsoft Azure Deployment Center for the 'staging (sr2-jpls-webapps/staging)' slot. The left sidebar includes sections like About, Device specifications, Deployment (highlighted with a red box), Deployment slots, Deployment Center (highlighted with a red box), Performance, Load Testing, Settings, and more. The main content area shows deployment logs, a Local Git/FTPS credentials tab (highlighted with a red box), and an Application scope section. A green box highlights the User scope section, which lists a new user named 'jplstaging' with a password field below it.

Deploy code to the staging deployment slot and the swap the staging slot with the production slot.

Ensure untested applications are not deployed to production environments.

- Pushed and committed the index.php file that content "Hello World" into the local GIT :



The screenshot shows a Microsoft Azure Cloud Shell interface. On the left, there's a sidebar with 'About' and 'Device specifications' sections. The 'Device specifications' section lists details like Device name (jeanphilippe), Processor (11th Gen Intel(R) Core(TM) i7-11800H 2.30 GHz), Installed RAM (64.0 GB (63.6 GB usable)), Device ID (C:\Windows\system32\cmd.exe), and Product ID (Microsoft Windows [Version 10.0.22000.1]). The main area is a terminal window with a red border. It shows a sequence of commands being run:

```
PS /home/jeanphilippe/localgit/local/sr2-jpls-webapps git commit -m "initial commit2"
[master (root-commit) e67c6bcc] initial commit2
 1 file changed, 3 insertions(+)
create mode 100644 index.php
PS /home/jeanphilippe/localgit/local/sr2-jpls-webapps git push azure
PS /home/jeanphilippe/localgit/local/sr2-jpls-webapps git push azure
PS /home/jeanphilippe/localgit/local/sr2-jpls-webapps git push https://sr2-jpls-webapps-staging.scm.azurewebsites.net:443:sr2-jpls-webapps.git
Username for 'https://sr2-jpls-webapps-staging.scm.azurewebsites.net:443': jplsstaging
Password for 'https://jplsstaging@sr2-jpls-webapps-staging.scm.azurewebsites.net:443':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 239 bytes | 239.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Deploy Async
remote: Updating branch `master`.
remote: Updating submodules.
remote: Preparing deployment for commit id `e67c6bcc`...
remote: PreDeployment: context.CleanOutputPath False
remote: PreDeployment: context.OutputPath /home/site/wwwroot
remote: Repository path is /home/site/repository
remote: Running oryx build...
remote: Operation performed by Microsoft Oryx, https://github.com/Microsoft/Oryx
remote: You can report issues at https://github.com/Microsoft/Oryx/issues
remote:
remote: Oryx Version: 0.2.20240319.4, Commit: 350bad7f37fa5a2d965474e7e95f9075e989e10, ReleaseTagName: 20240319.4
remote:
remote: Build Operation ID: 856c05b457cc305d
remote: Repository Commit: e67c6bcc7c3fbfbfe9640b5b612a1b73b673be
remote: OS Type : bookworm
remote: Image Type : githubactions
remote:
remote: Detecting platforms...
remote: Detected following platforms:
remote: php: 8.3.4
remote: Version '8.3.4' of platform 'php' is not installed. Generating script to install it...
remote:
remote: Using intermediate directory '/tmp/8dc796f72a76963'.
remote:
remote: Copying files to the intermediate directory...
remote: Done in 0 sec(s).
remote:
remote: Source directory : /tmp/8dc796f72a76963
remote: Destination directory: /home/site/wwwroot
remote:
remote:
remote: Downloading and extracting 'php' version '8.3.4' to '/tmp/oryx/platforms/php/8.3.4'...
remote: Detected Image debian flavor: bookworm.
remote: Downloaded in 2 sec(s).
```

```

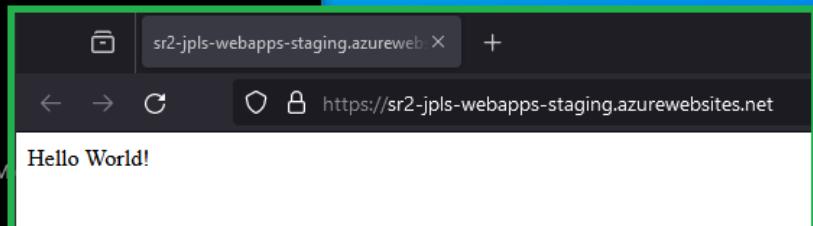
remote: Downloading and extracting 'php' version '8.3.4' to '/tmp/oryx/platforms/php/8.3.4'...
remote: Detected image debian flavor: bookworm.
remote: Downloaded in 2 sec(s).
remote: Verifying checksum...
remote: Extracting contents...
remote: Done in 5 sec(s).
remote:
remote: Downloading and extracting 'php-composer' version '2.6.2' to '/tmp/oryx/platforms/php-composer/2.6.2'...
remote: Detected image debian flavor: bookworm.
remote: Downloaded in 0 sec(s).
remote: Verifying checksum...
remote: Extracting contents...
remote: Done in 1 sec(s).
remote: Done in 1 sec(s).
remote: PHP executable: /tmp/oryx/platforms/php/8.3.4/bin/php
remote: No 'composer.json' file found; not running 'composer install'.
remote: Preparing output...
remote:
remote: Copying files to destination directory '/home/site/wwwroot'...
remote: Done in 0 sec(s).
remote:
remote: Removing existing manifest file
remote: Creating a manifest file...
remote: Manifest file created.
remote: Copying .ostype to manifest output directory.
remote:
remote: Done in 6 sec(s).
remote: Running post deployment command(s)...
remote:
remote: Generating summary of Oryx build
remote: Parsing the build logs
remote: Found 0 issue(s)
remote:
remote: Build summary :
remote: =====
remote: Errors (0)
remote: Warnings (0)
remote:
remote: Triggering recycle (preview mode disabled).
remote: Deployment successful. deployer = deploymentPath =
remote: Deployment Logs : "https://sr2-jpls-webapps-staging.scm.azurewebsites.net/newui/jsonviewer?view_url=/api/deployments/e67c6bcec7c73fbfb1e9640b5b612a1b73t673be/log"
To https://sr2-jpls-webapps-staging.scm.azurewebsites.net:443/sr2-jpls-webapps.git
 * [new branch]      master -> master
PS /home/jean-philippe/localgit/local/sr2-jpls-webapps>

```

About

Device specifications

Device name jeanphilippels
 Processor 11th Gen Intel(R) Core(TM) i7-11800H
 2.30 GHz
 Installed RAM 64.0 GB (63.6 GB usable)
 Device ID C:\windows\system32\cmd.exe
 Product ID Microsoft Windows [Version 10.0.22621.1432]
 (c) Microsoft Corporation. All rights reserved.
 C:\Users\WpcmD2>whoami
 jeanphilippels\wpcmd2
 C:\Users\WpcmD2>



About

Device specifications

Device name jeanphilippels
 Processor 11th Gen Intel(R) Core(TM) i7-11800H
 2.30 GHz
 Installed RAM 64.0 GB (63.6 GB usable)
 Device ID C:\windows\system32\cmd.exe
 Product ID Microsoft Windows [Version 10.0.22621.1432]
 (c) Microsoft Corporation. All rights reserved.
 C:\Users\WpcmD2>whoami
 jeanphilippels\wpcmd2
 C:\Users\WpcmD2>

Name	Status	App service plan	Traffic %
sr2-jpls-webapps	Production	ASP-sr2-jpls-webapps-9b...	100
sr2-jpls-webapps-staging	Running	ASP-sr2-jpls-webapps-9b...	0

Notifications

More events in the activity log → Dismiss all ▾

Swapping slots SuccessFully swapped slots 'staging' and 'production' a few seconds ago

Configure and test Autoscaling of the Web app that would be best for your organisation.

Disclose the scale rules used.

Here's the scale rules applied :

- **Metric source: Current resource**
- **Time aggregation: Maximum**
- **Metric namespace: App Service plans standard metrics**
- **Metric name: CPU Percentage**
- **Operator: Greater than**
- **Metric threshold to trigger scale action: 10.**
- **Duration (in minutes): 1**
- **Time grain statistic: Maximum**
- **Operation: Increase count by**
- **Instance count: 1.**

The screenshot shows the Azure portal interface for managing autoscale settings. On the left, there's a sidebar with device specifications: Device name (jeanphilippe), Processor (11th Gen Intel(R) 2.30 GHz). The main pane shows the 'Autoscale setting' for the 'az104-jpls-rg9 / sr2-jpls-webapps' App Service plan. The 'Scale rule' section is highlighted with a green border. It contains the following configuration:

- Metric source:** Current resource (ASP-sr2-jpls-webapps-9b08)
- Resource type:** App Service plans (ASP-sr2-jpls-webapps-9b08)
- Criteria:** Metric namespace: Standard metrics, Metric name: CPU Percentage, Operator: Greater than, Dimension values: All values, Time grain: 1 minute
- Graph:** A line graph titled 'CpuPercentage (Maximum)' showing a trend from 20% down to 19% over a 1-minute time period.
- Actions:** An 'Add' button is visible at the bottom right.

Device specifications

Device name: jeanphilippe
Processor: 11th Gen Intel(R) 2.30 GHz

Autoscale setting

ASP-sr2-jpls-webapps-9b08 (App Service plan)

Save Discard Refresh Logs Feedback

Resource group: az104-jpls-rg9
Instance count: 1

Default Auto created default scale condition

Delete warning: The very last or default recurrence rule cannot be deleted. Instead, you can disable autoscale to turn off autoscale.

Scale mode: Scale based on a metric (selected) Scale to a specific instance count

Rules: Scale is based on metric trigger rules but no rule(s) is defined; click Add a rule to create a rule. For example: 'Add a rule that increases instance count by 1 when CPU Percentage is above 70%'. If no rules is defined, the resource will be set to default instance count.

Instance limits: Minimum: 1, Maximum: 1, Default: 1

Schedule: This scale condition is executed when none of the other scale condition(s) match

+ Add a scale condition

Scale rule

CpuPercentage (Maximum): 23 %

Operator: Greater than Metric threshold to trigger scale action: 10

Duration (minutes): 1 Time grain (minutes): 1

Time grain statistic: Maximum Time aggregation: Maximum

Action: Operation: Increase count by 5 Cool down (minutes): 5 instance count: 1

Add

Device specifications

Device name: jeanphilippe
Processor: 11th Gen Intel(R) 2.30 GHz

Autoscale setting

ASP-sr2-jpls-webapps-9b08 (App Service plan)

Save Discard Refresh Logs Feedback

Instance count: 1

Default Auto created default scale condition

Delete warning: The very last or default recurrence rule cannot be deleted. Instead, you can disable autoscale to turn off autoscale.

Scale mode: Scale based on a metric (selected) Scale to a specific instance count

Rules: It is recommended to have at least one scale rule. To create new rules, click Add a rule.

Scale out: When ASP-sr2-jpls-webapps... (Maximum) CpuPercentage > 10 Increase count by 1

+ Add a rule

Instance limits: Minimum: 1, Maximum: 2, Default: 1

Schedule: This scale condition is executed when none of the other scale condition(s) match

+ Add a scale condition

Notifications

More events in the activity log → Dismiss all

Resource 'ASP-sr2-jpls-webapps-9b08' updated
Successfully updated configuration for 'ASP-sr2-jpls-webapps-9b08'
a few seconds ago

Device specifications

Device name: jeanphilippe
Processor: 11th Gen Intel(R) 2.30 GHz

sr2-jpls-webapps Web App

Home Resource groups: az104-jpls-rg9

Browse Stop Swap Restart Delete Refresh Download publish profile Reset publish profile Share to mobile Send us your feedback

Properties Monitoring Logs Capabilities Notifications Recommendations

Web app

- Name: sr2-jpls-webapps
- Publishing model: Code
- Runtime Stack: PHP - 8.3

Domains

- Default domain: sr2-jpls-webapps.azurewebsites.net
- Custom domain: Add custom domain

Hosting

- Plan type: App Service plan
- Name: ASP-sr2-jpls-webapps-9b08
- Operating System: Linux
- Instance Count: 2
- SKU and size: Standard (S1) Scale up

Deployment Center

- Deployment logs
- Last deployment
- Deployment provider: None

Application Insights

- Name
- Enable Application Insights

Networking

- Virtual IP address: 20.119.16.45
- Outbound IP addresses: 20.253.40.35, 20.253.40.43, 20.253.40.46... Show More
- Additional Outbound IP addresses: 20.253.40.35, 20.253.40.43, 20.253.40.46... Show More
- Virtual network integration: Not configured