

Azure Major project 02 [Outstanding – 2]

Kushagra Bansal


1. Create two Resource groups by Name (rg001) and (rg002).

Go to Resource group > add

a. rg001

[Home](#) > [Resource groups](#) >

Create a resource group

 Validation passed.

[Basics](#) [Tags](#) [Review + create](#)

Basics

Subscription	Azure for Students
Resource group	rg001
Region	Southeast Asia

Tags

Domain	Major Project2
Enviroment	Cloud_Base

b. rg002

[Home](#) > [Resource groups](#) >

Create a resource group

✓ Validation passed.

[Basics](#) [Tags](#) [Review + create](#)

Basics

Subscription	Azure for Students
Resource group	rg002
Region	Southeast Asia

Tags

Domain	Major Project2
Environment	Cloud_Base

2. Create two virtual networks (vnet01) and (vnet02) in the above created resource groups respectively.

a. vnet01

Create virtual network

 Validation passed

- Basics
- IP Addresses
- Security
- Tags
- Review + create

Basics

Subscription	Azure for Students
Resource group	rg001
Name	vnet01
Region	Southeast Asia

IP addresses

Address space	10.0.0.0/16,192.0.0.0/8
Subnet	default (10.0.0.0/24),subnet01 (192.165.0.0/16)

Tags

Domain	Major Project2
Enviroment	Cloud_Base

Security

BastionHost	Disabled
DDoS protection plan	Basic

b. vnet02

[All services](#) > [Virtual networks](#) >

Create virtual network

✓ Validation passed

Basics IP Addresses Security Tags Review + create

Basics

Subscription	Azure for Students
Resource group	rg002
Name	vnet02
Region	Southeast Asia

IP addresses

Address space	10.2.0.0/16,163.0.0.0/8
Subnet	default (10.2.0.0/24),subnet02 (163.165.0.0/24)

Tags

Domain	Major Project2
Enviroment	Cloud_Base

Security

BastionHost	Disabled
DDoS protection plan	Basic

3. Create two Storage Accounts and only exposed these storage accounts to the above created VNets only.

Go to Storage Accounts > + add and configure it.

a. Stgacct001

[Home](#) > [Storage accounts](#) >

Create storage account

✓ Validation passed

Subscription	Azure for Students
Resource group	rg001
Location	Southeast Asia
Storage account name	stgacct01
Deployment model	Resource manager
Account kind	StorageV2 (general purpose v2)
Replication	Read-access geo-redundant storage (RA-GRS)
Performance	Standard

Networking

Connectivity method	Public endpoint (selected networks)
Virtual network subscription	Azure for Students
Virtual network resource group	rg001
Virtual network	vnet01
Subnet	subnet01 (192.165.0.0/16) ('Microsoft.Storage' endpoint will be added)
Default routing tier	Microsoft network routing


Data protection

Point-in-time restore	Disabled
Blob soft delete	Enabled
Blob retention period in days	7 days

b. Stgacct02

[Home](#) > [Storage accounts](#) >

Create storage account

 Validation passed

Subscription	Azure for Students
Resource group	rg002
Location	Southeast Asia
Storage account name	stgacct02
Deployment model	Resource manager
Account kind	StorageV2 (general purpose v2)
Replication	Read-access geo-redundant storage (RA-GRS)
Performance	Standard

Networking

Connectivity method	Public endpoint (selected networks)
Virtual network subscription	Azure for Students
Virtual network resource group	rg002
Virtual network	vnet02
Subnet	subnet02 (163.165.0.0/24) ('Microsoft.Storage' endpoint will be added)
Default routing tier	Microsoft network routing

Data protection

Point-in-time restore	Disabled
Blob soft delete	Enabled
Block protection period in days	7 days

[Create](#) [< Previous](#) [Next >](#) [Download a template for automation](#)

4. Create two users (user01 and user02) in Azure Active Directory.

Go to Default Directory > Users > add users and Configure it.

Let say user-1 is user01 and user-2 is user02

[Home](#) > [Default Directory](#) > [Users](#) >

New user

Default Directory

[Got feedback?](#)

Last name

Password

- ☒ Auto-generate password
☐ Let me create the password

Initial password

☒ Show Password

Groups and roles

Groups [0 groups selected](#)

Roles [User](#)

Create

A

[Home](#) > [Default Directory](#) > [Users](#) >

New user

Default Directory

[Got feedback?](#)

Password

- ☒ Auto-generate password
☐ Let me create the password

Initial password

☒ Show Password

Groups and roles

Groups [0 groups selected](#)

Roles [User](#)

Create

It generates the One time password which can be changed at the time of login.

Home > Default Directory > Users > Kushagra Bansal

Kushagra Bansal | Profile

User

« Edit Reset password Revoke sessions Delete Refresh Got feedback?

Diagnose and solve problems

Manage

- Profile
- Assigned roles
- Administrative units
- Groups
- Applications
- Licenses
- Devices
- Azure role assignments
- Authentication methods

Activity

- Sign-ins
- Audit logs

Troubleshooting + Support

- New support request

Kushagra Bansal

user01@sudhasmita303gmail.onmicrosoft.com

User Sign-ins

Group memberships 0

Nov 8 Nov 15 Nov 22 Nov 29

Identity

Name	Kushagra Bansal	First name	Kushagra	Last name	Bansal
User Principal Name	user01@sudhasmita303gmail.onmicroso...	User type	Member		
Object ID	21cc4b86-7ec8-4088-8f5d-01137f...	Source	Azure Active Directory		

Job info

Job title	DevOps Student	Department	CS	Manager	
Company name	-- --	Employee ID	-- --		

A

Home > Default Directory > Users > Sudhasmita swain

Sudhasmita swain | Profile

User

« Edit Reset password Revoke sessions Delete Refresh Got feedback?

Diagnose and solve problems

Manage

- Profile
- Assigned roles
- Administrative units
- Groups
- Applications
- Licenses
- Devices
- Azure role assignments
- Authentication methods

Activity

- Sign-ins
- Audit logs

Troubleshooting + Support

- New support request

Sudhasmita swain

user02@sudhasmita303gmail.onmicrosoft.com

User Sign-ins

Group memberships 0

Nov 8 Nov 15 Nov 22 Nov 29

Identity

Name	Sudhasmita swain	First name	Sudhasmita	Last name	swain
User Principal Name	user02@sudhasmita303gmail.onmicroso...	User type	Member		
Object ID	52a58610-7e05-499d-a3a9-8649d...	Source	Azure Active Directory		

Job info

Job title	Student	Department	Computer Science	Manager	
Company name	nA	Employee ID	-- --		

A

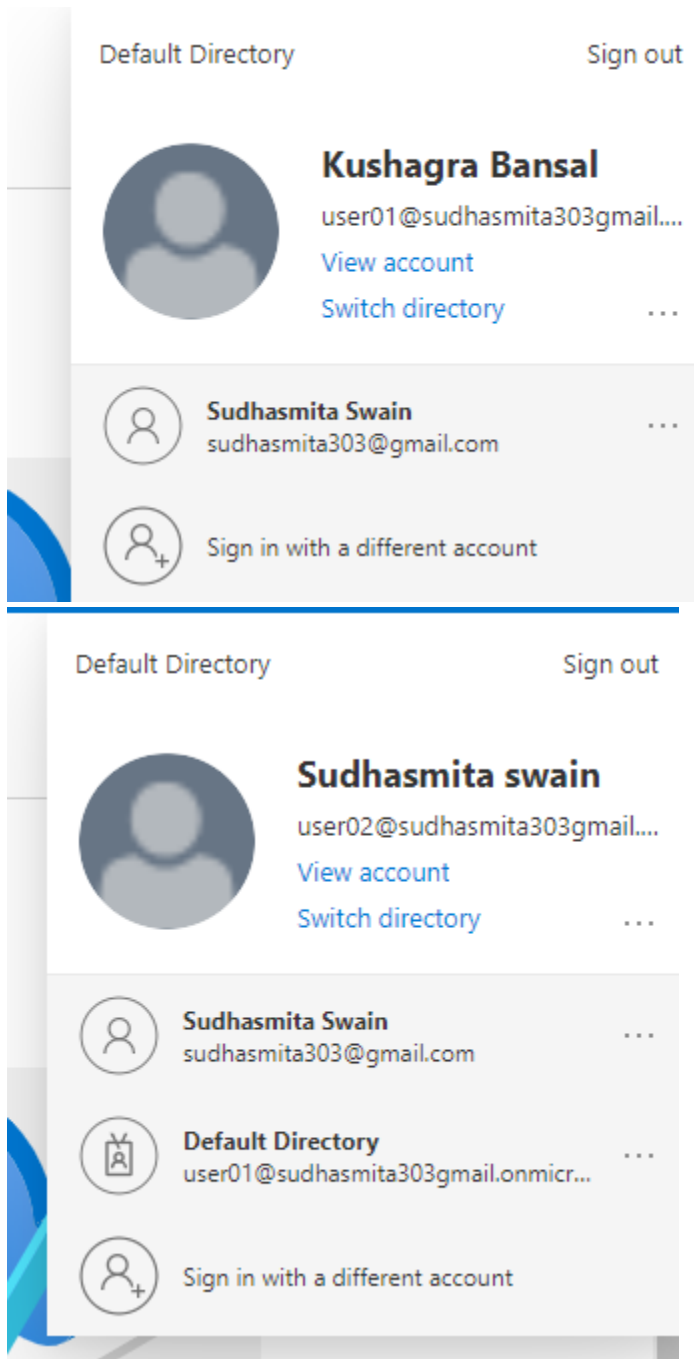
Go to top right, Click on a profile option and login with mail generate i.e

- User01@sudhasmita303gmail.onmicrosoft.com
- User02@sudhasmita303gmail.onmicrosoft.com

5. - Check whether you are able to login with any of the one newly created user.

After following the above step and retyping the password you will redirect to the user created by you.

After login you will see like this if you click your profile



6. Give above user's access to the storage account with the Contributor role.

Go to Subscription > Access Control (IAM) and follow the below screenshot

The screenshot displays the Azure portal interface. On the left, the 'Subscriptions' blade shows the 'Azure for Students' subscription. The main area is titled 'Azure for Students | Access control (IAM)'. A search bar is present, and a list of role assignments is shown. An 'Add role assignment' dialog is open on the right. In this dialog, the 'Role' is set to 'Contributor'. The 'Assign access to' dropdown is set to 'User, group, or service principal'. The 'Select' dropdown is open, showing a list of users. Two users are visible: 'Sudhasmita Swain' (user02@sudhasmita303gmail.onmicrosoft.com) and 'Kushagra Bansal' (user01@sudhasmita303gmail.onmicr...). The 'Selected members' section shows 'Kushagra Bansal' with a 'Remove' button. At the bottom of the dialog are 'Save' and 'Discard' buttons.

Now, Go to user01 account > Subscription, You will a subscription added to a user account too

[Home](#) >

Subscriptions

Default Directory

×

[+](#) Add

View list of subscriptions for which you have role-based access control (RBAC) permissions to manage Azure resources. To view subscriptions for which you have billing access, [click here](#).
Showing subscriptions in Default Directory directory. Don't see a subscription? [Switch directories](#)


My role 

Status 







8 selected

3 selected

Apply

Showing 1 of 1 subscriptions ☒ Show only subscriptions selected in the [global subscriptions filter](#) 

 Search

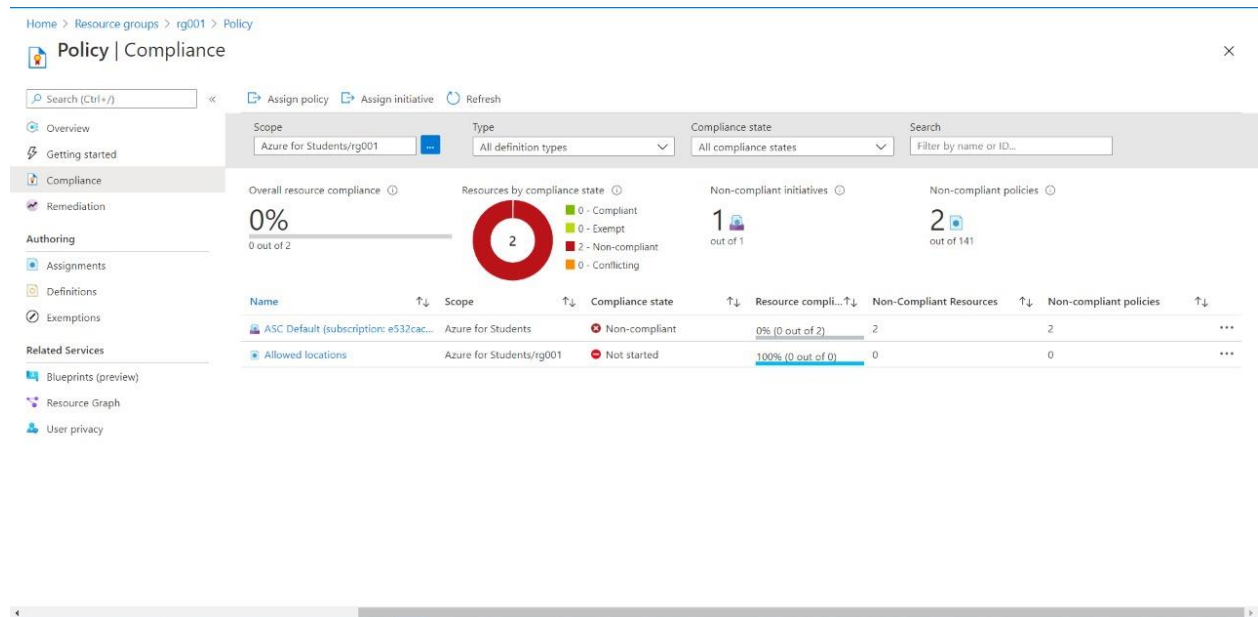
Subscription name 	Subscription ID 	My role 	Current cost	Status 	
 Azure for Students	e532cacd-d1ea-44a8-b4cc-21f06aab61bc	Specified access	Not available	 Active	...

<https://portal.azure.com/#>

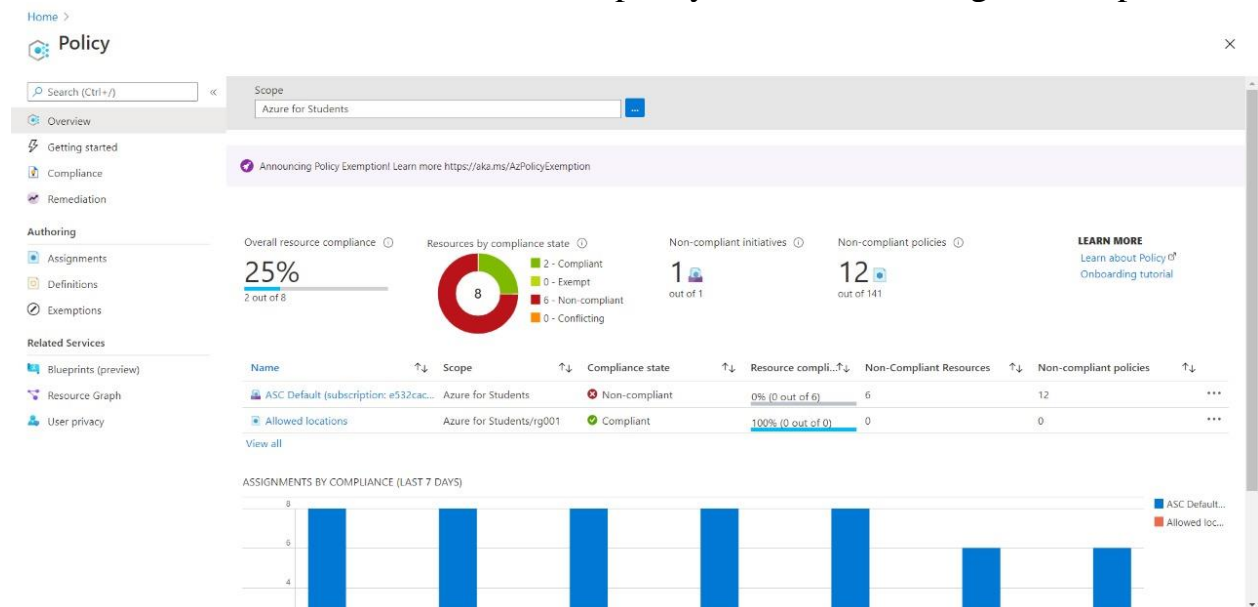
7. Create an Azure Policy to only allow certain locations (Southeast Asia) for the resource group, try to create a resource in any other location and check the policy evaluation. (You can use any other region).

Lets take a rg001 resource group.

a. Go to resource group > rg001 > policy > compliance



Wait for a few minute and refresh it and policy disable will change to compliant.



Lets try creating another resources of any other location except Southeast asia

Home > Virtual networks >

Create virtual network

Validation failed. Click here to view details. →

Basics IP Addresses Security Tags **Review + create**

Basics

Subscription	Azure for Students
Resource group	rg001
Name	vnet03
Region	West US 2

IP addresses

Address space	10.3.0.0/16
Subnet	default (10.3.0.0/24)

Tags

Domain	Major Project2
Environment	Cloud_Base

Security

BastionHost	Disabled
DDoS protection plan	Basic

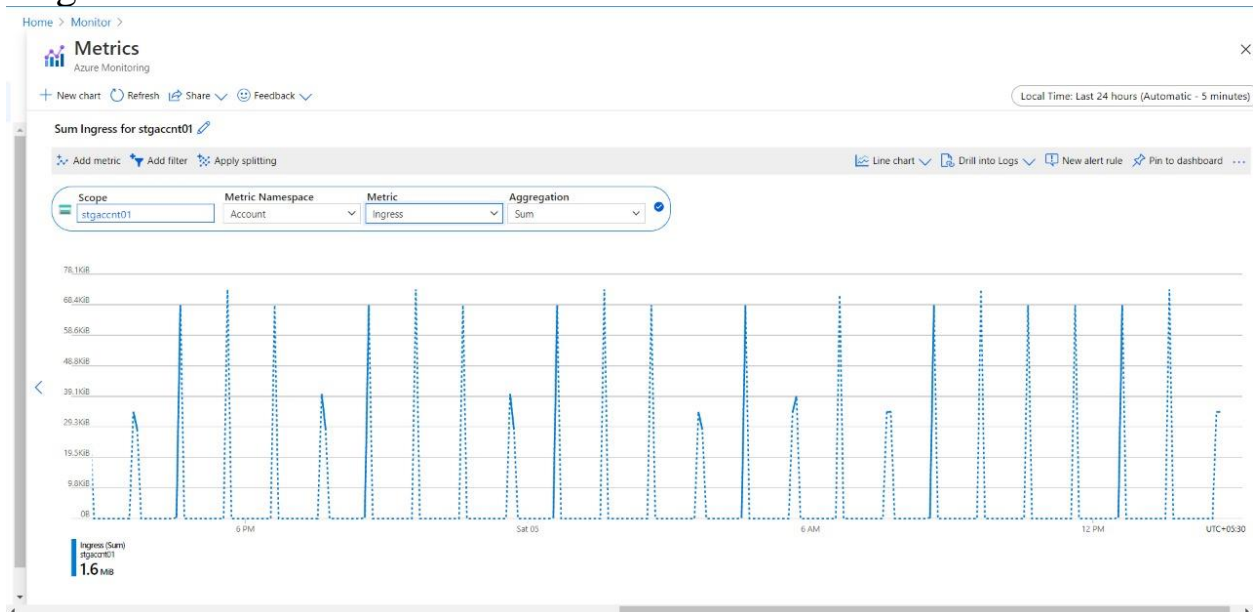
Create < Previous Next > Download a template for automation

It will show an error !!!

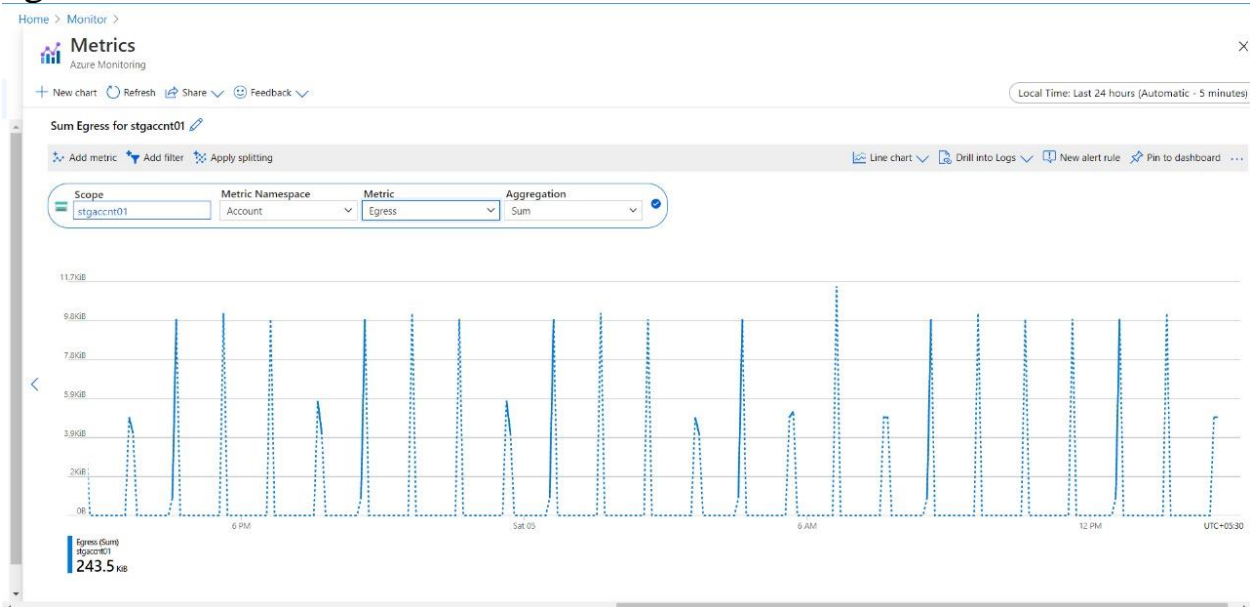
8. Setup Ingress and Egress metrics for the both the above created Storage Account.

Go to Metrics > add new chart

a. Igress Metrics



b. Egress metrics



9. Create Action (Verzactgrp) Group for the above alert with your email id.

Go to monitor > Manage actions > add action

The screenshot shows the 'Edit action group' page in Azure Monitor. The page has a header with 'Home > Monitor > Manage actions >' and 'Edit action group'. Below the header, there are buttons for 'Save changes' and 'Delete action group'. A summary text states: 'This is a summary of your action group. Please review to ensure the information is correct and consider [Azure Alerts Pricing](#) and the [Azure Privacy Statement](#).' The page is divided into two main sections: 'Basics' and 'Notifications'. The 'Basics' section contains four fields: 'Subscription' (Azure for Students), 'Resource group' (rg002), 'Action group name' (Verzactgrp), and 'Display name' (Verzactgrp). The 'Notifications' section contains a table with columns: 'Notification type', 'Name', 'Status', and 'Selected'. The table has one row: 'Email/SMS message/Push/Voice', 'Check your mail Kush', 'Subscribed', and 'Email'. Below the table, there are input fields for 'Notification type' and 'Name'. The 'Actions' section contains a table with columns: 'Action type', 'Name', and 'Selected'. The table has one row: 'Action type', 'Name', and 'Selected'.

10. Check if you are receiving the alert.

You've been added to an Azure Monitor action group

You are now in the Verzactgrp action group and will receive notifications sent to the group.

[View details on Azure Monitor action groups >](#)

Account information

Subscription ID: e532cacc-d1ea-44a8-b4cc-21f06aab61bc

Resource group name: rg002


Action group name: Verzactgrp

To unsubscribe from this action group, [click here](#).

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