BUI Security Assessment Toolset

Summary:

The following document outlines the necessary steps for enrolling the BUI Security Assessment tool into an Azure Tenant. As of March 2023, this tool provides the capability to perform two assessments at no cost:

MFA Check:

a) This assessment evaluates the multi-factor authentication (MFA) status of all user accounts that have access to an Azure Subscription.
b) The report generated will include the MFA status of any user with subscription access, regardless of their level of access. MFA is a potent technology that can enhance the security of your Azure environment by strongly authenticating users.

VM Remote Access Check:

a) This assessment evaluates all deployed Virtual Machines and identifies which machines are directly accessible over the internet using management ports (e.g., TCP 22, 3389).
b) The report will list the resources that have access granted to them for Remote control, including Remote Desktop and SSH.

As of April 2023, the assessment tool now includes two additional assessments for a few of 5 USD per/month:

TLS Assessment:

- This assessment will assess several Azure Resource types and indicate whether they are configured with encryption in transit and whether they are using the latest supported TLS version for a particular resource.

Remote Access Exposure:

- This assessment will assess several Azure Resource types and indicate whether they are publicly accessible from the Internet.

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Prerequisites:

The user Enrolling the tool, needs to have the appropriate level of access to the Azure Tenant that the tool will assess. This effectively means that each Azure Tenant needs the BUI Assessment tool enrolled separately.

The minimum required permissions to perform an assessment are:

- For MFA Check:
  - "Global Reader" in Azure AD
  - “Reader” access on the Azure Subscriptions
- For the VM Remote Access Check:
  - "Reader" access on the Azure Subscriptions
- TLS Assessment:
  - "Reader" access on the Azure Subscriptions
- Remote Access Check:
  - "Reader" access on the Azure Subscriptions

Location:

The BUI Security Assessment tool can be enrolled via the Microsoft Azure Marketplace, on the following URL:

Microsoft Azure Marketplace

How to Enrol

The below picture shows how to enrol this tool.

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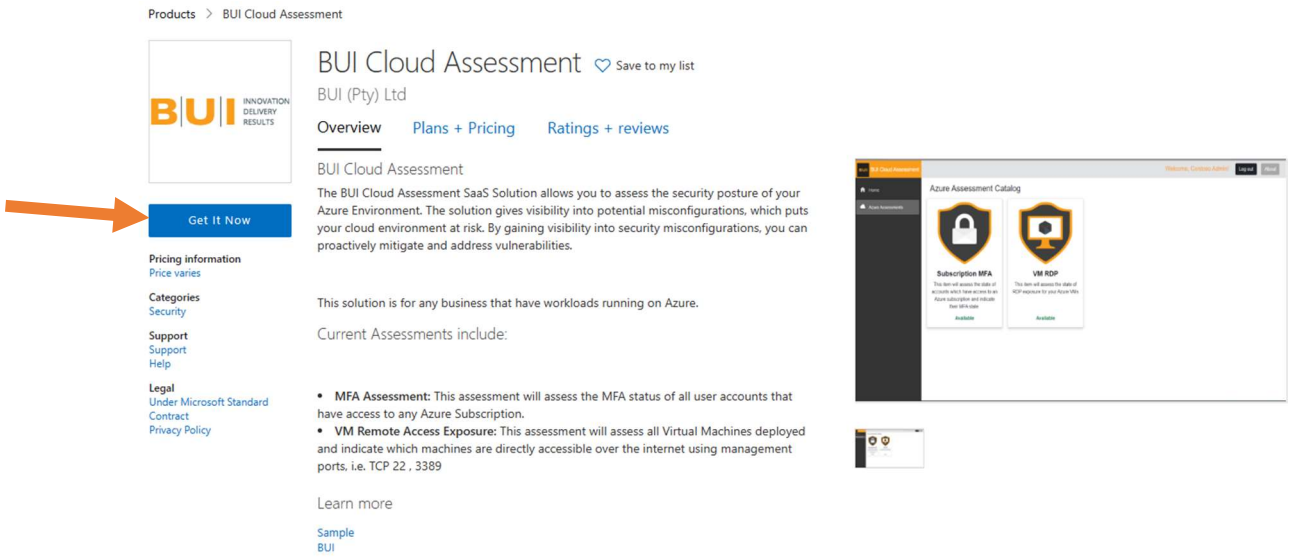
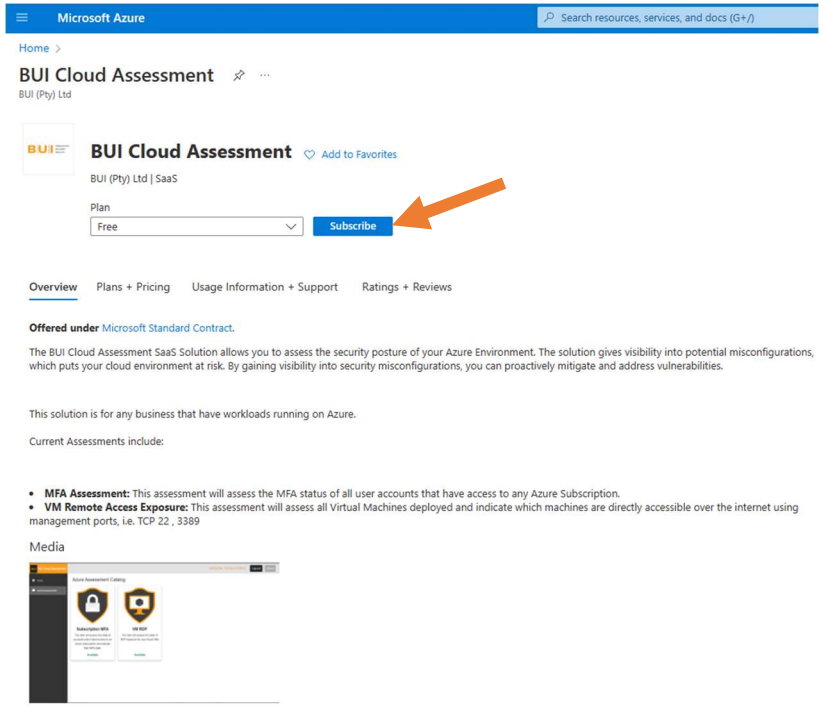


You will be redirected to Portal.Azure.com

Azure Enrollment

Simply Click Subscribe, note pricing tier is set to “Free”



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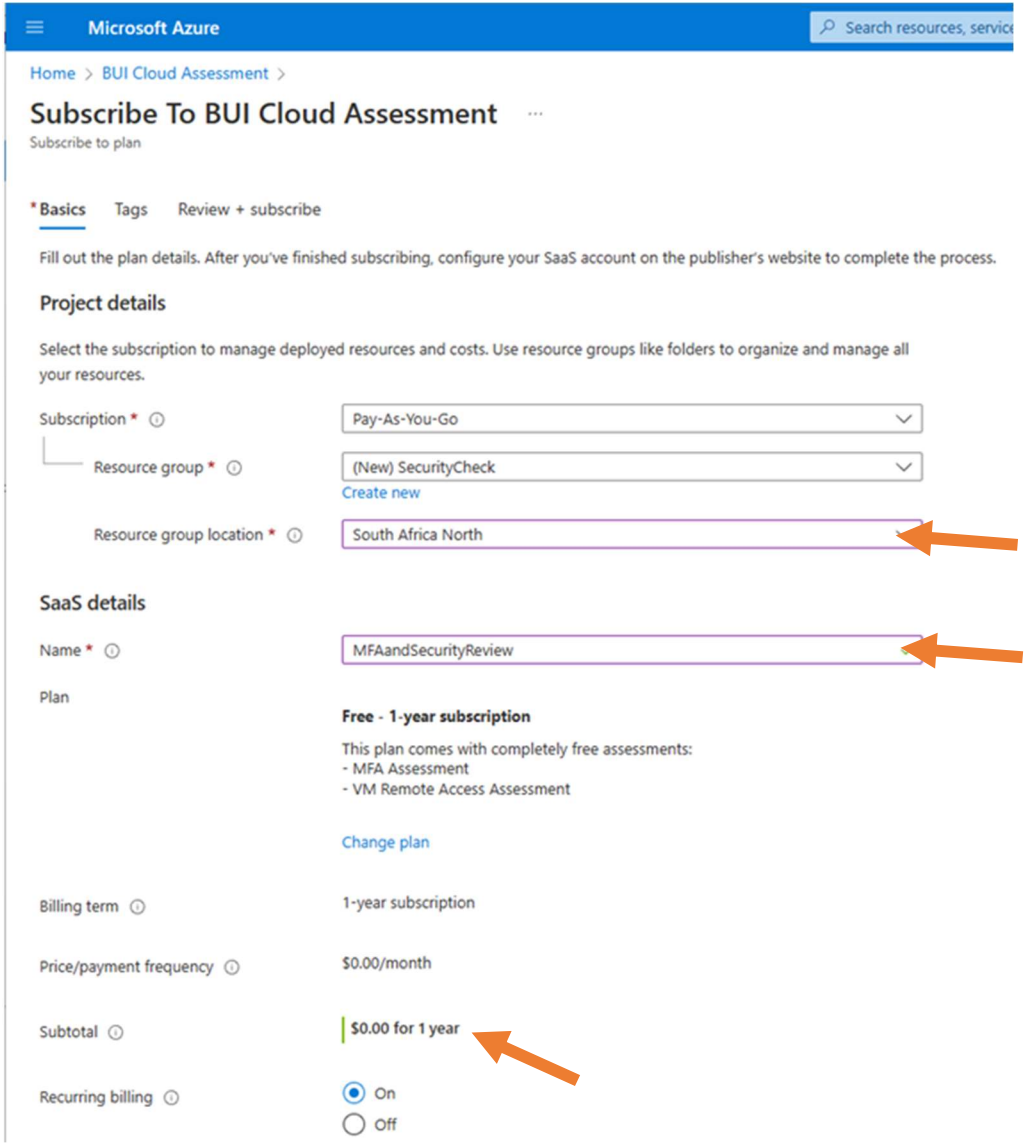
BUI INNOVATION™ DELIVERY RESULTS

Create a Resource Group for the BUI Assessment Tool



	Step 1: Create new – Resource Group – Any Name can be used.
	Step 2: Select and Azure Region – Any Region can be Selected.
	Step 3: Step 3: Give a name to your Resource Group – You can choose your own name.
	Step 4: - Press Next and Select Tags if needed, if not select “Next” .

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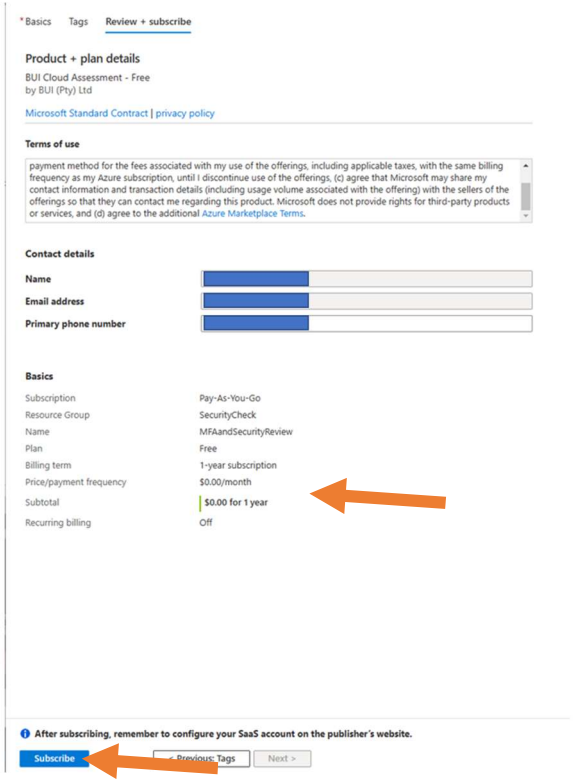
Final Step to Subscribe

The BUI Cloud Assessment Tool is free of charge. However, if additional services are needed, they can be obtained through paid services. This document solely outlines the usage of the assessment tools that are free of cost,

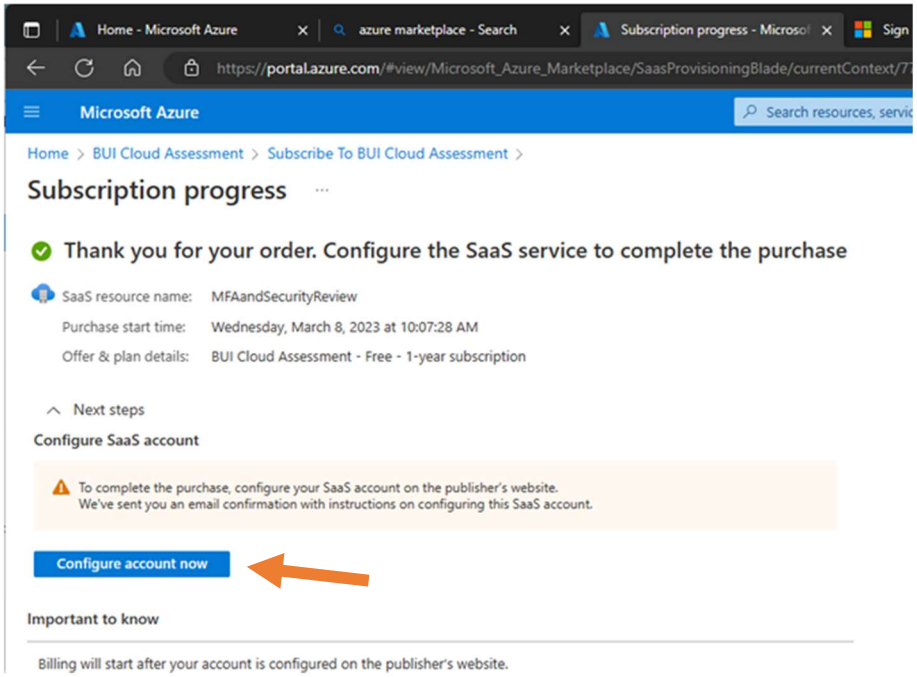


As above - Click Subscribe

Note: this tool is “Zero Cost” and has no monetary value attached and can be used as such.

Enrolment Completed:

Press “Configure account now,” this will redirect you to the final page to activate the Assessment Tools.



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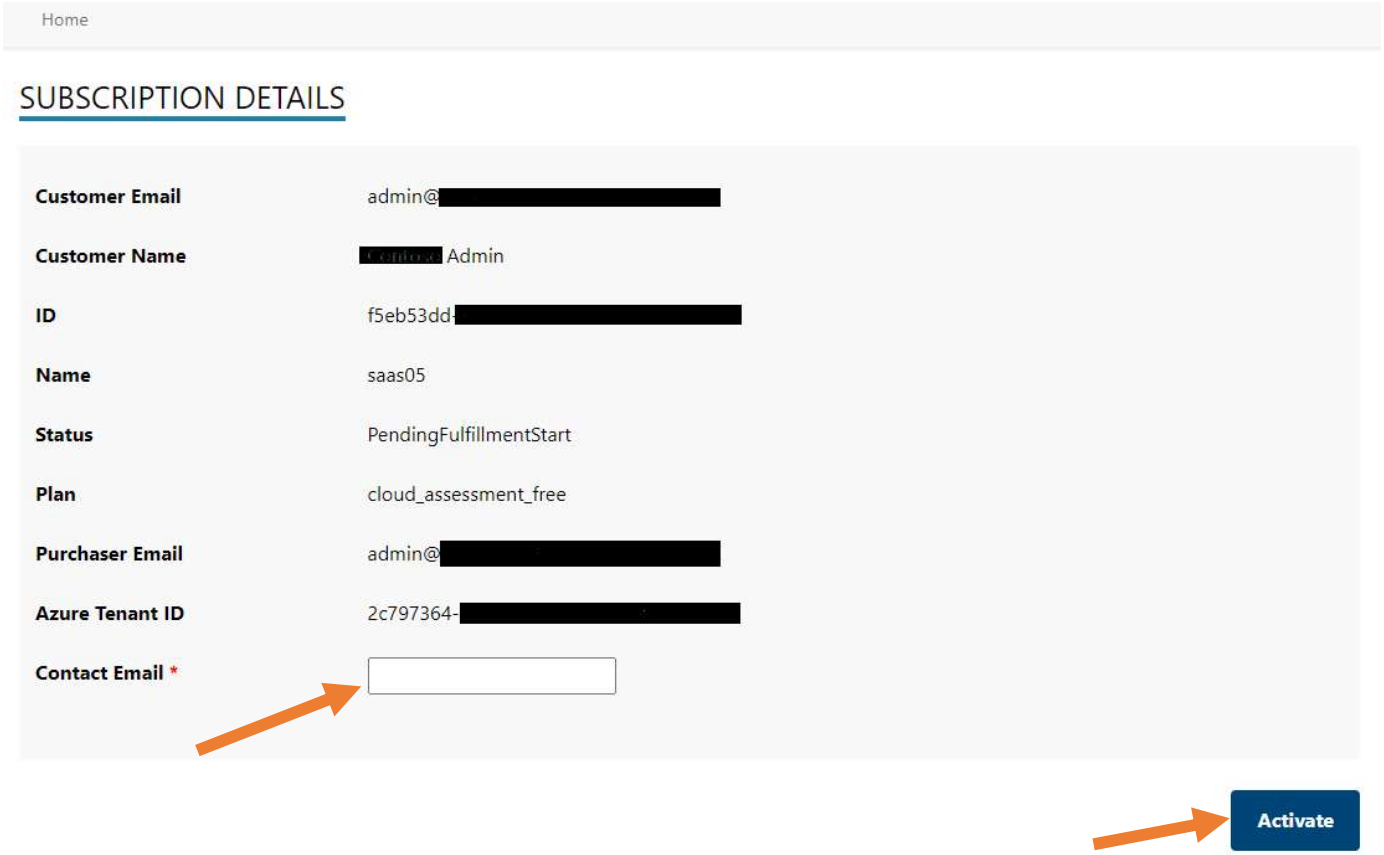
Final Step:



This final step will activate the subscription and an email will be sent to your email address if the account you used has a valid email address. Since not all accounts have a valid mailbox, you will need to provide a valid “Contact Email” address and then click “Activate”.

After activation the solution can be accessed in one of three ways:

- By navigating directly to the solution:

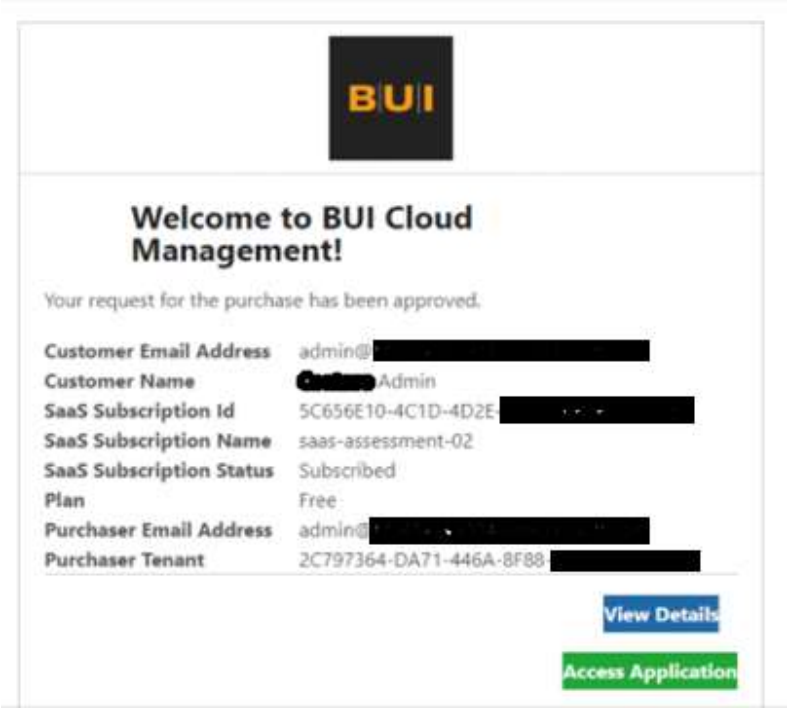
  https://cloudmanage.bui.co

- By navigating to the BUI SaaS Portal (https://saasportal.bui.co/), signing-in and then clicking the relevant button (**Access Application**) which will take you to your purchased\subscribed solution:

SUBSCRIPTIONS

Name	Plan	Quantity	Status	Access Application	Action
saas-test02	cloud_assessment_free	N/A	Subscribed	Access Application	≡

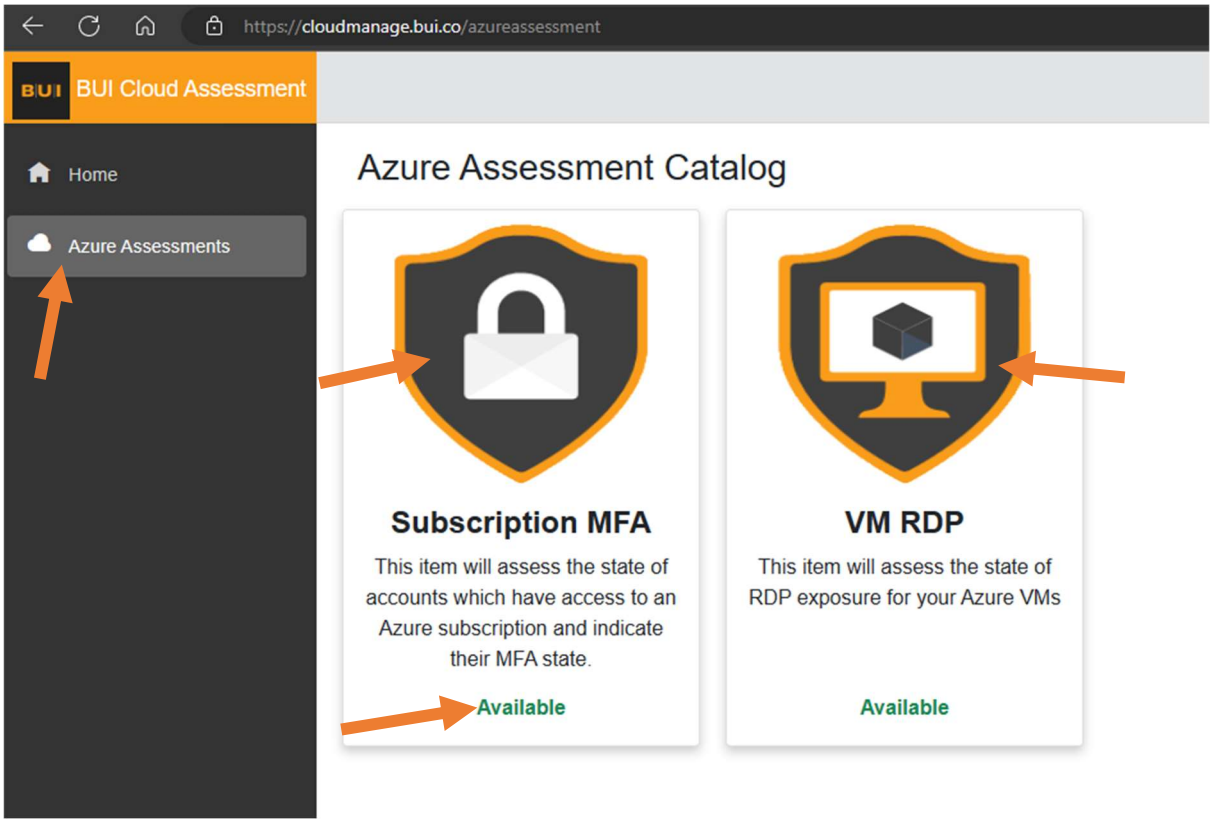
- By waiting for the email confirming subscription activation and then selecting “Access Application”. This email should be like the sample below and will be emailed to your registered email address:



How to use the Tool

This Toolset uses the Security rights of the logged in user and all scanning happens in the context of the logged in tenant. The minimum required rights are described here.

Navigate to: https://cloudmanage.bui.co



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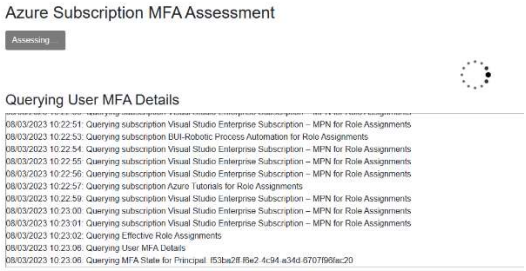
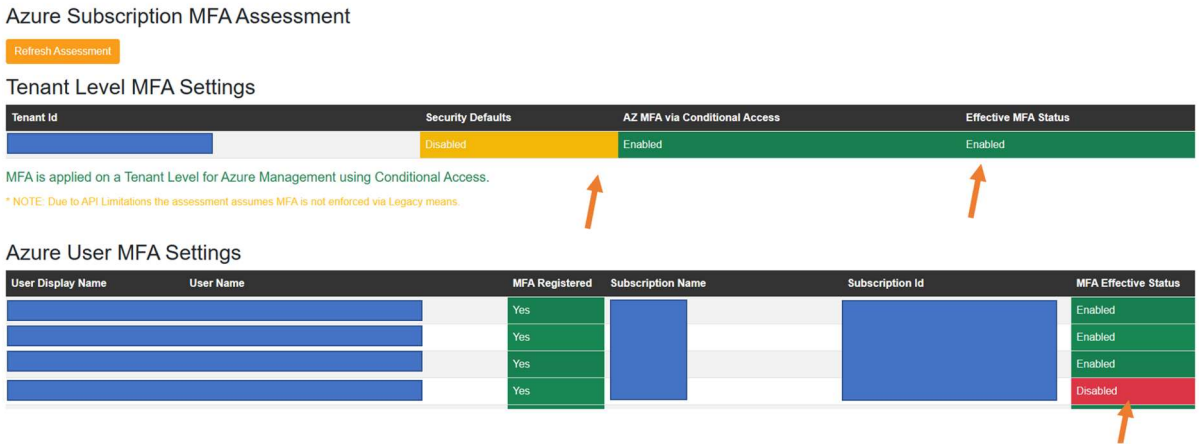
To view which assessments are available to you,

Click on the **Security Assessments** tab, and then “Start Assessment”. This will initiate the assessment.



Note: If you have been enrolled for the BUI Assessment Tools, via the Azure Marketplace previous steps you will see in Green the word “**Available**”

Note: This may take several minutes depending on the number of subscriptions your user has access to, the results will look similar to the below screenshots, and are easily copy and pasted into excel as required.



1. First section shows the Tenant MFA Settings

2. The above image depicts the results of the Azure MFA assessment, it has been colour coded in the above example MFA is enabled and this tenant and its subscription have MFA enabled

   Green = Enabled

   Yellow = Not enabled or not needed

   Red = Disabled this is an issue which needs to be resolved.

   Blue = Redacted information for this example.

   Per User MFA = Account which are using Legacy MFA, these should be moved for Security Baseline or Conditional access.

FAQ

Issue – Error when enrolling application in Azure Portal

1. When subscribing to the Assessment tools, it is possible to encounter an enrolment issue. The current workaround for this issue is to manually create the resource group and restart the enrolment process. By redoing the step where the resource group is selected, users can bypass this random issue. Select the newly manually created resource group and proceed with the next steps.

General assistance:

If you encounter any issues, you are welcome to email:

BUISaaSTools@bui.co

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Legal

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