

# **Introducing the IBM Cloud Framework for Financial Services**

This document will walk you through a demonstration of how to introduce the IBM Cloud Framework for Financial Services. This will enable you to explain how the FS controls as we sometimes refer to them can show how automated compliance can be proven from an FS Cloud architecture. The controls link into the Security and Compliance center FS Cloud Profile and can be scanned for validation. We also help show the mapping between the FS Controls and the cloud services used in the FS Cloud Reference architecture.

#### Goals for the Demo:

- Familiarize the audience with IBM Cloud Framework for Financial Services.
- Explain the Control Families, Control details and guidance from IBM and for the ISV and Ecosystem partner
- Demonstrate the mapping between the FS Controls and the Cloud services used in a an FS Cloud reference architecture.

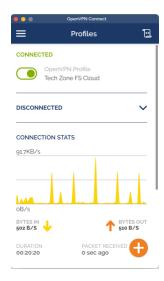
### **Prerequisites:**

- If you have not already done so, request access to the FS Cloud demo environment at: https://techzone.ibm.com/collection/ibm-cloud-for-financial-services
- Download and install the OpenVPN client
  - o Windows <a href="https://openvpn.net/community-downloads/">https://openvpn.net/community-downloads/</a>
  - o MacOS https://openvpn.net/client-connect-vpn-for-mac-os/
  - o Linux https://openvpn.net/download-open-vpn/
- Download the techzone.ovpn VPN certificate and add it to the OpenVPN client
  - o Link <a href="https://techzone-iam-agent.eqtyaj6hk2k.eu-de.codeengine.appdomain.cloud/vpn/download">https://techzone-iam-agent.eqtyaj6hk2k.eu-de.codeengine.appdomain.cloud/vpn/download</a>

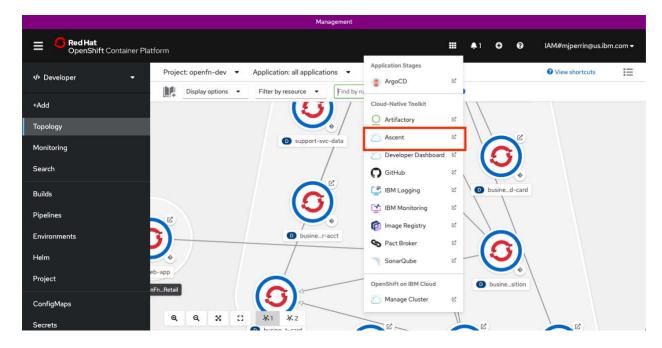


### **Demo Steps:**

1. Connect the OpenVPN Client with the Tech Zone demo profile

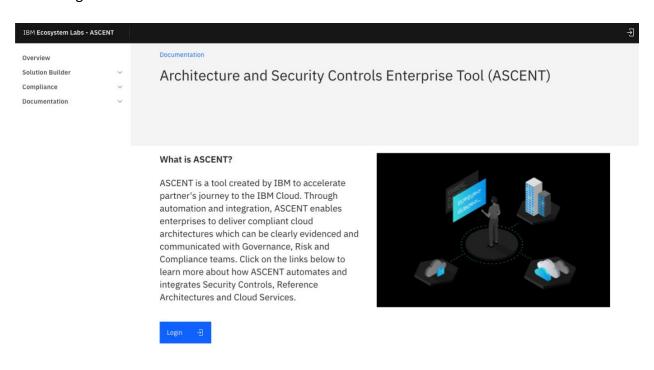


- 2. Login to IBM Cloud <a href="https://cloud.ibm.com">https://cloud.ibm.com</a>
- 3. Navigate to the Resource View https://cloud.ibm.com/resources
- 4. Expand the **Cluster** twisty and click on **frontoffice-mgmt-cluster**
- Click on OpenShift Web Console make sure you OpenVPN client is running and connected, you should see the Management Cluster

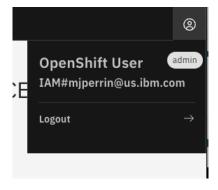




6. Click on the 9 Square menu and select **Ascent** you will the following screen showing the **Ascent** login screen.

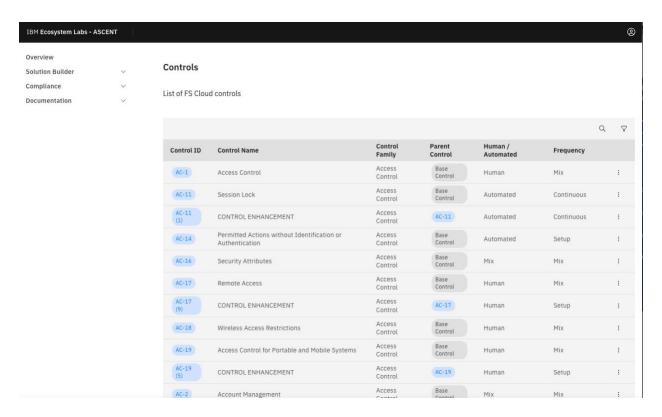


7. Click on the **Login** button click on the Profile icon top right and validate you are logged into the tool correctly.



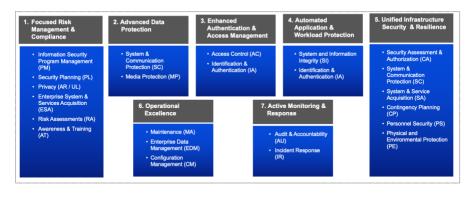
- 8. On the menu on the left select **Compliance -> Controls** this will display the list of controls.
- 9. Controls define the compliance requirements that a Risk team or Compliance officer will need the validate for a solution implemented on IBM Cloud.





- 10. Scroll down the page and highlight there are **278** controls, and each control has a set of sub controls detailing nearly **600** controls that need to be validated.
- 11. Highlight that each control must be validated through Automation, SCC console scan or by humans or a mix of both.
- 12. Highlight those controls can be validated at project inception setup or continuously or at various time slots during the project year.

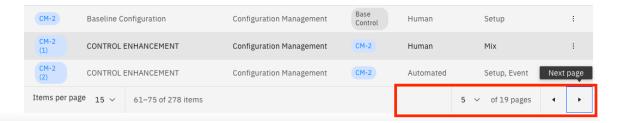
IBM Cloud Framework for Financial Services Focus Areas and Control Alignment Seven focus areas, 21 unique control families, ~280 controls



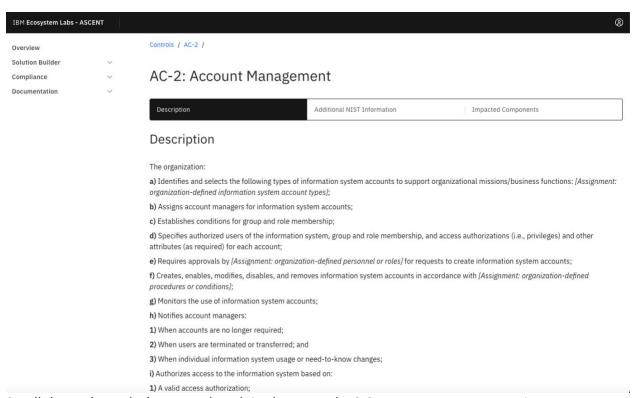
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13. Explain that controls are grouped into Control Families, navigating through the page of controls using the navigation at the bottom of the table show the controls and how they are aligned to control families.

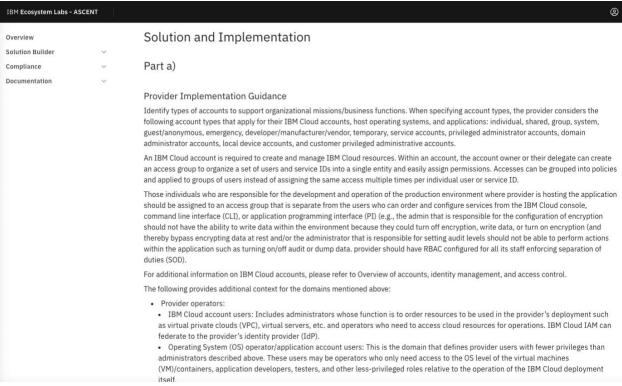


- 14. At the top of the page search for control **AC-2** (click on the search button and enter AC-2)
- 15. Click on the blue AC-2 tag you will see the control detail



- 16. Scroll down through the control explain the control AC-2 Account management in more detail
- 17. Highlight the NIST guidance for the organization to implement this control
- 18. Highlight the Solution and Implementation guidance





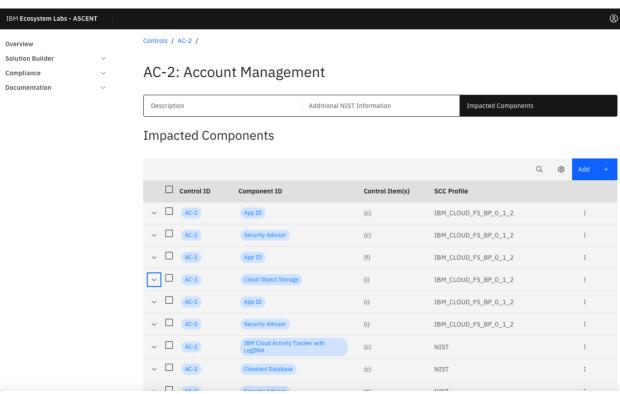
- 19. Highlight the control framework has Provider evidence on how you validate the control or sub control and the implementation guidance
- 20. Scroll back to the top and repeat this for several other controls for example **SC-11**, etc.
- 21. Using Ascent become familiar with the controls and explain the value of having this asset to help accelerate the on boarding of solutions into the FS Cloud.
- 22. Return back to the AC-2 control and click on its detail view
- 23. Click on Additional NIST Information this will display the information that the NIST organization supplies to the industry navigate to this NIST website and click on AC-2
  - a. <a href="https://csrc.nist.gov/Projects/risk-management/sp800-53-controls/release-search#!/controls?version=5.1&security\_baseline=High">https://csrc.nist.gov/Projects/risk-management/sp800-53-controls/release-search#!/controls?version=5.1&security\_baseline=High</a>
- 24. This will show you the sub controls as documented by the industry, and it will also so the control relationships
- 25. In the **Ascent** tool you can see the Priority and the relationships are listed in this view. Highlight the relationships to your audience.



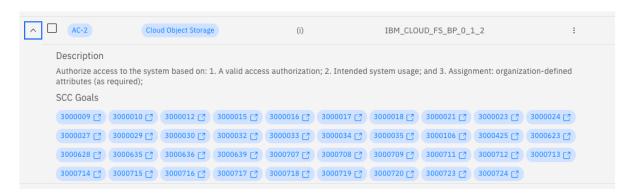
**Controls Mapping** how the FS Controls can be mapped to specific Cloud Services and then on to specific SCC goals in the Security and Compliance center.

### **Demo Steps:**

1. Log into **Ascent** tool using steps in previous section and navigate to **Compliance** >**Controls**->**AC-2 Detail View** and then select **Impacted Components**.

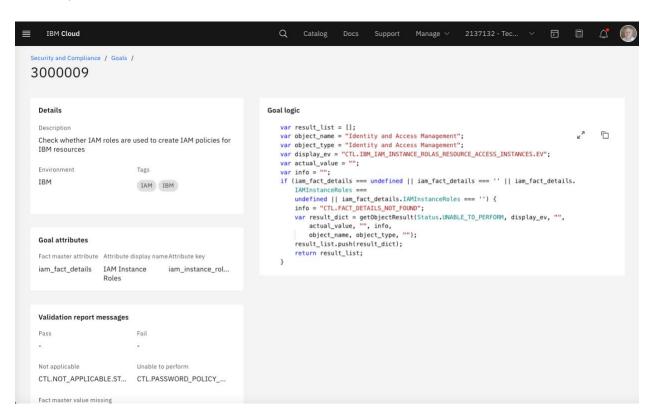


- You will see all the Components (Cloud Services) that have a mapping relationship to the FS controls
- 3. In this case you can explain how AC-2 has mapping to AppID, Cloud Object Storage etc
- Expand the twisty on AC-2->Cloud Object Storage



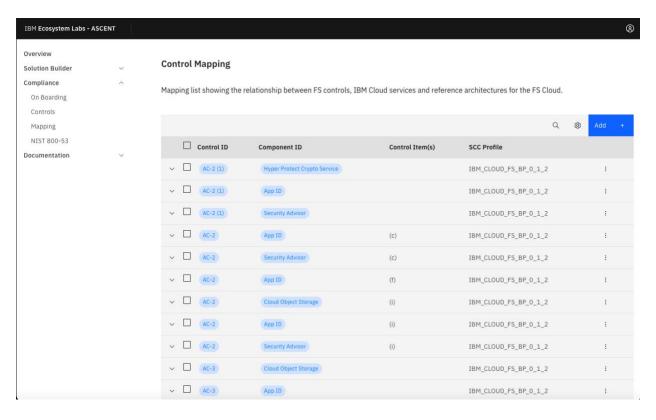


- 5. You can see all the Goals that have been mapped to the cloud service and how these goals map to the FS Control
- 6. Click on one of the Goals **3000009** (make sure you are logged into the TechZone Cloud Account)



- 7. You can see the Goal That Is defined to validate that the Multi Factor Authentication is enabled and aligned to the resource that is defined in the architecture.
- 8. Click on a few of the other goals to see how they related to the Cloud Object Storage services
- 9. Now you have explained the relationship from the Controls to the Cloud Services lets navigate to the mapping view
- 10. Click on Compliance->Mapping





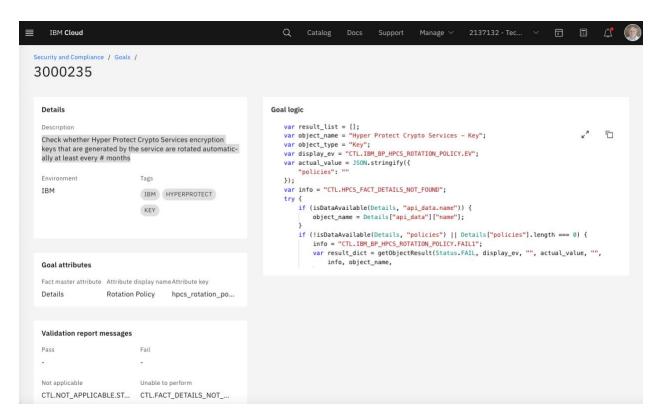
- 11. You can see the list of controls and how they map to the Cloud services. You can also see the SCC profile that was used to import the mapping data into the **Ascent** tool. This makes its clearer to explain the end-to-end relationships.
- 12. Expand the Hyper Protect Crypto Service and show the goals that are linked to this services



- 13. Explain the mapping to AC-2(1) control
- 14. Click on a few goals to show how they are implemented in the IBM Cloud console.
- 15. Open Goal **3000235** this goal highlights a key validation check.
  - a. Check whether Hyper Protect Crypto Services encryption keys that are generated by the service are rotated automatically at least every # months

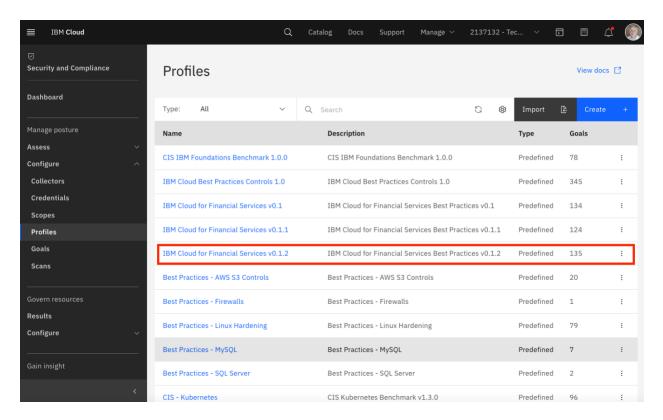


16. It's this level of validation from the cloud platform that enables the controls to be validated and reported to a compliance and risk teams.



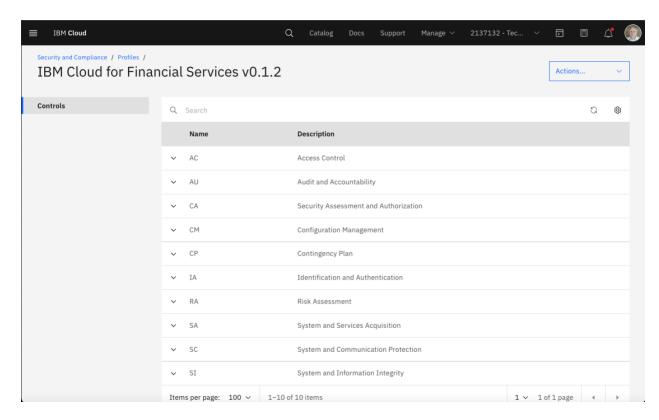
17. While in the IBM Cloud console click on **Menu->Security and Compliance->Configure->Profiles** 





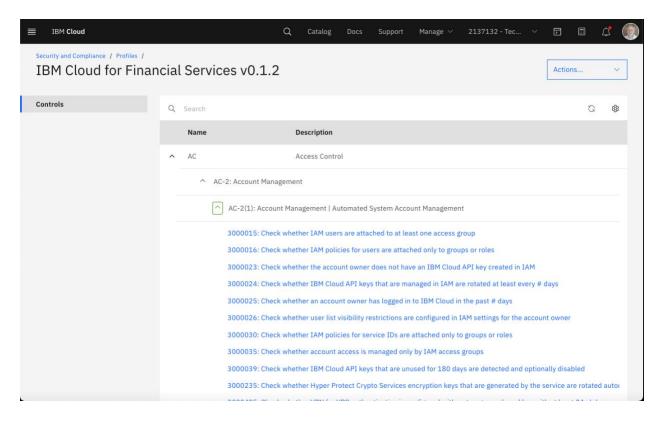
18. Click on the **IBM Cloud for Financial Services vX.X.X** this will open up the profile for Financial Services





- 19. You will see the FS Control families listed
- 20. Expand AC Access Control
- 21. Expand AC-2: Account Management
- 22. Expand AC-2(1): Account Management | Automated System Account Management
- 23. You will see all the goals that are group into the specific FS Control





- 24. You can explain the relationships clearly now to the FS Control framework that discussed in the first section
- 25. Click on a few goals to navigate to them specifically

#### THIS CONCLUDES THE DEMO STEPS