

RSA® ARCHER®
GRC Platform
Implementation Guide

Allied Media Inc.
Digital Testing and Controls automation
for RSA Archer
Ver: 0.1

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RSA
READY

Solution Summary

RSA Archer ensures risks, regulations, and internal control requirements are being managed.

Testing of controls and reporting findings to Archer is crucial to ensure your organization stays compliant. The complexity further increases with a growing number of digital initiatives in organizations as well as blended (Cloud and Local) environments. The challenges to achieve this include but are not limited to:

1. Manual processes of running the control tests and gathering information
2. Bandwidth of resources
3. Decentralized data
4. Non-integrated and disparate technology

BAAR has a patent pending solution where the whole process will be automated. The process is non-intrusive and will work in the following manner:



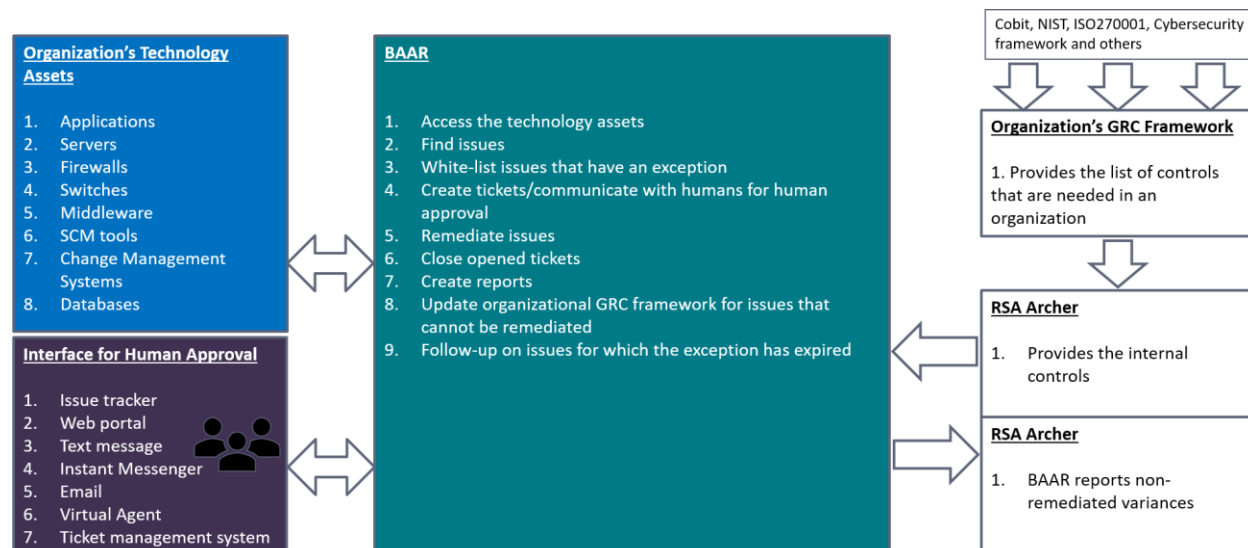
- Archer will direct BAAR (Business Automation, AI and Robotics) Control Automation to start the respective control test
- BAAR will access the required technology assets for the control test
- BAAR will find anomalies
- BAAR will create tickets regarding the anomalies and remediate them (If required)
- BAAR will report findings back to Archer
- Archer Will have updated information at all times.

BAAR will help automate control and execution using AI, Robotics, and other new age methods.

The cost of non-compliance is high, and automation of control testing will ensure a higher degree of compliance.

Partner Integration Overview	
RSA Archer Solution	IT Security Risk Management
RSA Archer Use Case	IT Controls Assurance, Issues Management
RSA Archer Applications	Control Procedures, Findings
Uses Custom Application	No
Requires On-Demand License	No

Overall Solution Diagram:



Currently, there are 2 possible models of deployment:

1. On Premise: BAAR can be deployed in your network. This is recommended if you have an on-premise deployment of Archer and if most of the systems critical from the perspective of control testing are deployed on-premise.
2. In the Cloud: BAAR can be deployed in your private cloud. This is recommended where you are using a cloud version of Archer and most of your systems critical from the perspective of control testing are in the cloud.
3. BAAR Platform as a service: This offering will be made available in the 3rd quarter of 2019. Currently it is being tested.

The various components involved in this solution are as follows:

1. BAAR: This layer includes the following:
 - Intent and dialogue manager: This layer will translate unstructured conversation into structured data using 'Natural Language Understanding'
 - Workflow system: The workflow system takes the structured inputs from the Intent manager and performs the related action within RSA Archer
2. TensorFlow: Testing of certain controls will require Machine Learning. Machine learning is primarily used to convert unstructured data into structured data in this context. Most use cases deployed also use automated supervised learning. Here, the model used in TensorFlow learns over time, hence it becomes smarter over time.

TensorFlow as well as other AI components, like NLP and Computer Vision, will be needed here. These will be taken care of with licensing for BAAR based on an understanding of the controls you need tested.

A list of some of the various AI components that can be used are as follows:

1. Natural Language Processing
2. Deep Learning
3. Predictive Analytics
4. Computer Vision
5. Voice Recognition

Partner Product Configuration

Before You Begin

This section provides instructions for configuring BAAR with the RSA Archer GRC Platform. This document is not intended to suggest optimum installations or configurations.

It is assumed that the reader has both working knowledge of all products involved, and the ability to perform the tasks outlined in this section. Administrators should have access to the product documentation for all products in order to install the required components.

All Allied Media's components must be installed and working prior to the integration. Perform the necessary tests to confirm that this is true before proceeding.

!> Important: The integration described in this guide is being provided as a reference implementation for evaluation and testing purposes. It may or may not meet the needs and use cases for your organization. If additional customizations or enhancements are needed, it is recommended that customers contact RSA Professional Services for assistance.

Allied Media, BAAR installation and Configuration

Every control that needs to be tested is a workflow within BAAR. The first step is to install BAAR. Once installed, Allied Media will provide you with the required workflow in JASON format. The workflow should be imported into BAAR and configured as per the instructions provided with the workflow.

Pre-requisites:

System Requirement

- 4 Core
- 16 GB of system memory
- Windows Server

Installation:

MySQL

- Install MySQL 5.7 (for example MySQL Community Server 5.7.22) on same node or different node.

Java

- Install and configure JAVA, JDK 1.8 and JRE 1.8 on the node where BAAR Studio would be installed

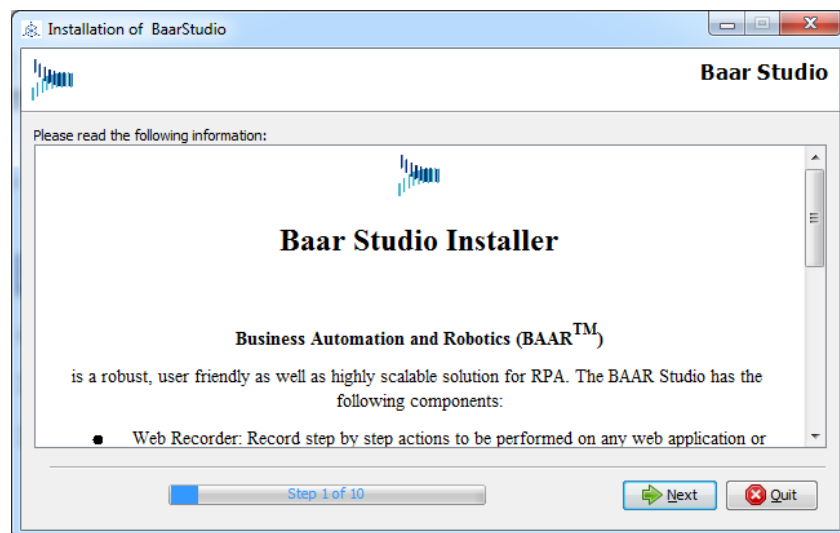
Python

- Install Python 2.7/3 on the node where BAAR Studio would be installed.
- PN: Python must be added in Environment Variable path from the installer.

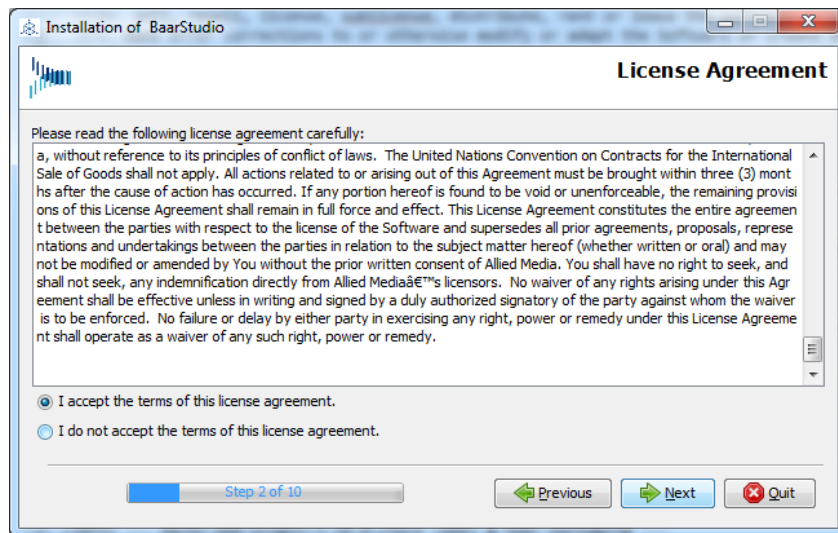
Set-Up Configurations

- Run BAAR -studio.exe (A docker implementation is in the works). **Please reach out to Allied Media for the license.**

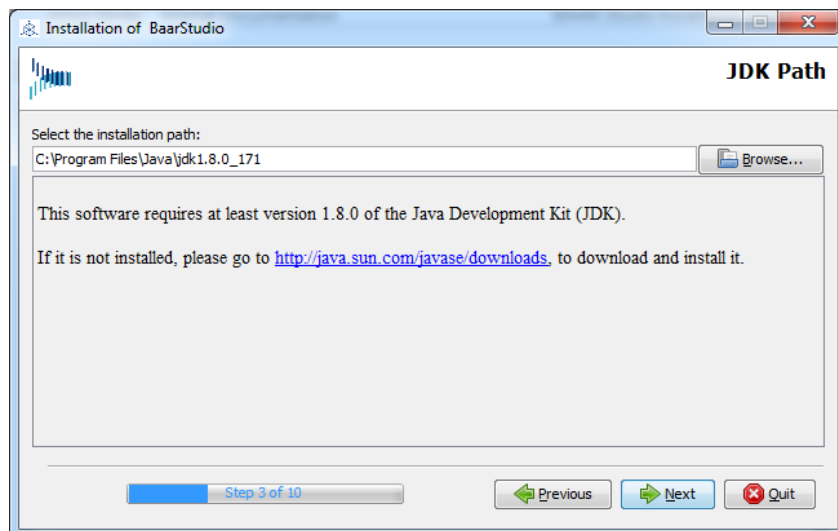
Home Screen



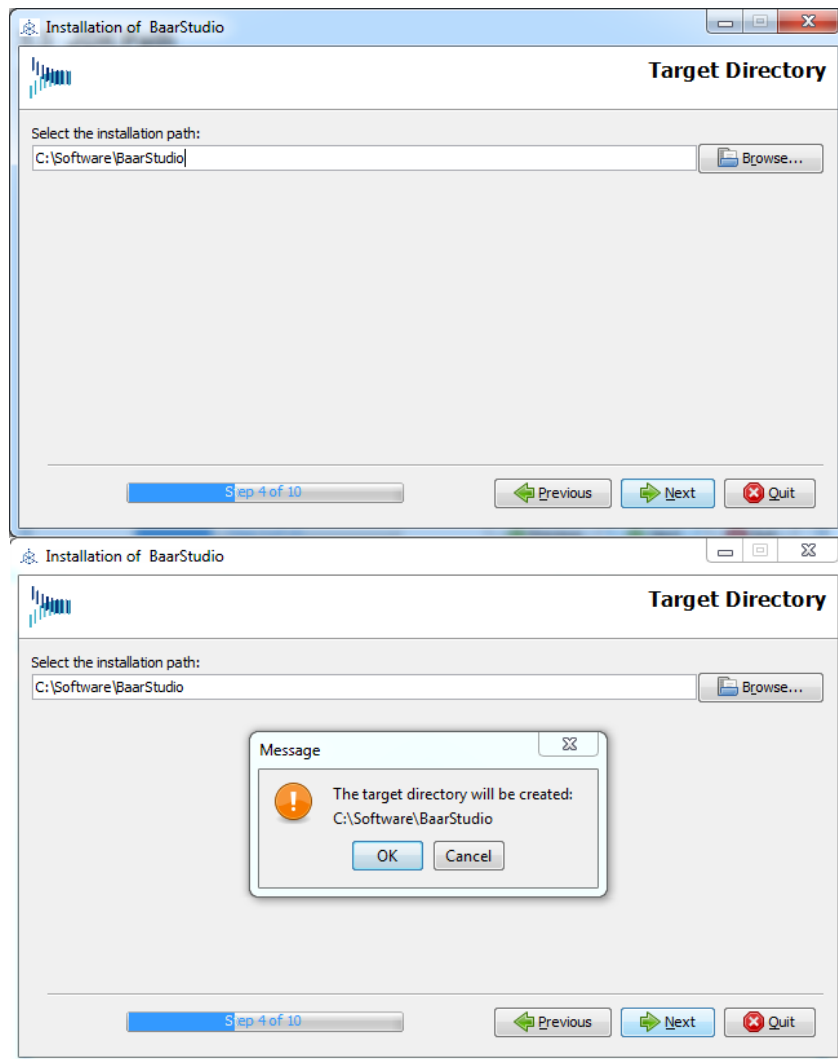
License Agreement



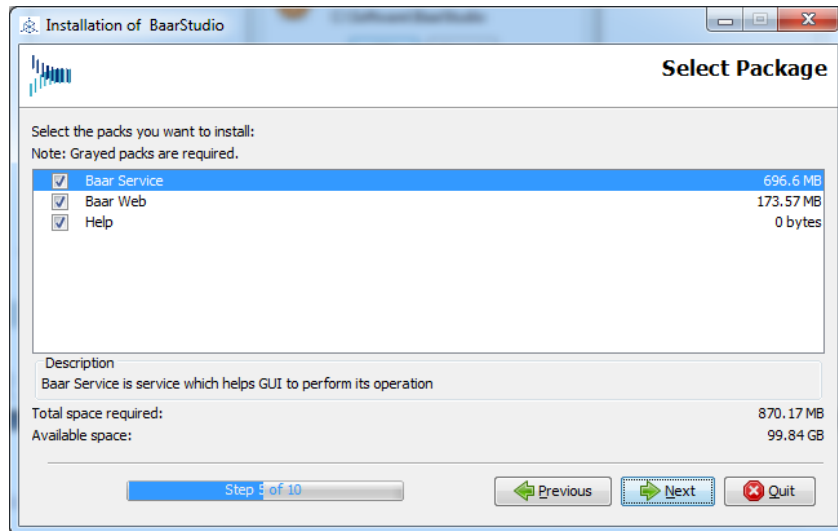
JDK Path



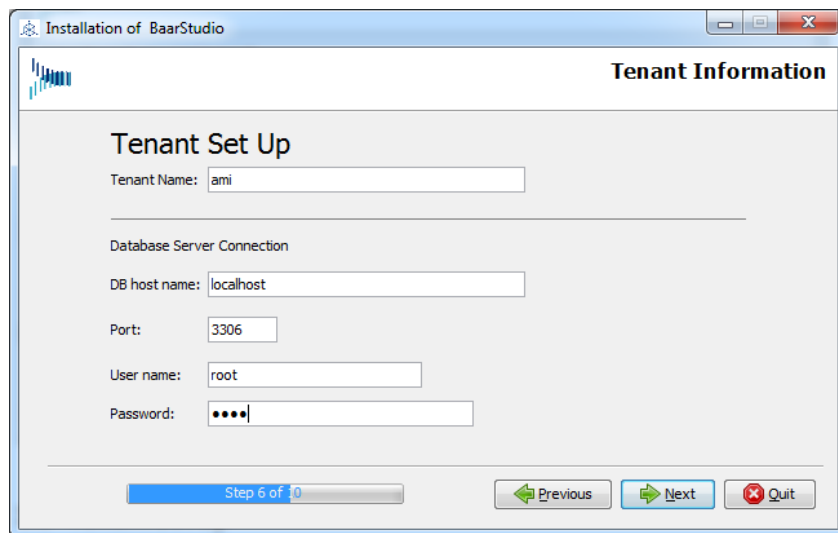
Target Directory



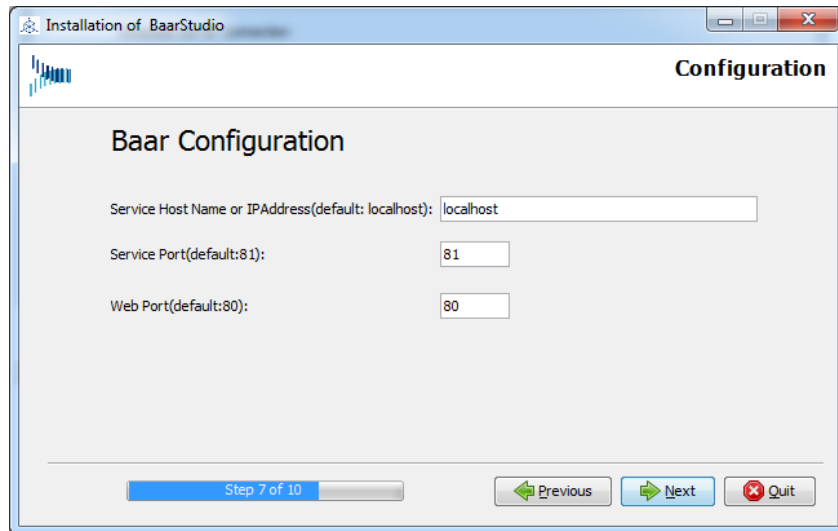
Select Package



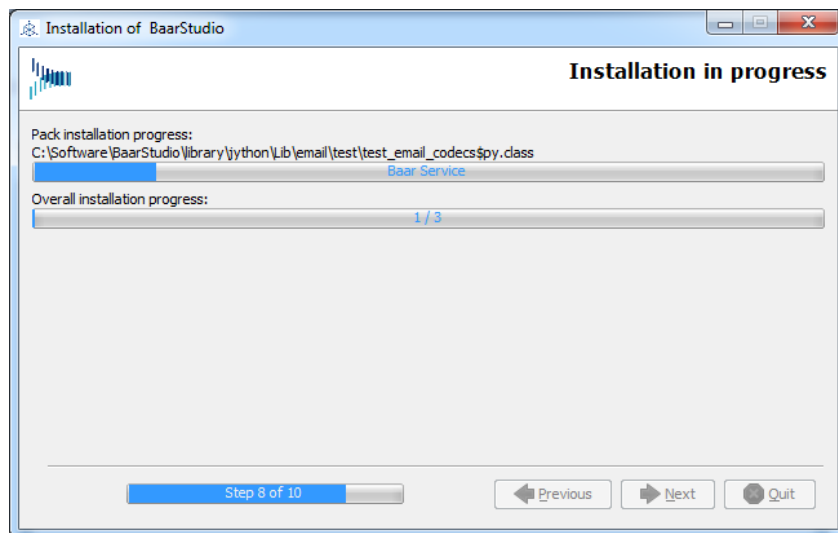
Tenant Set Up



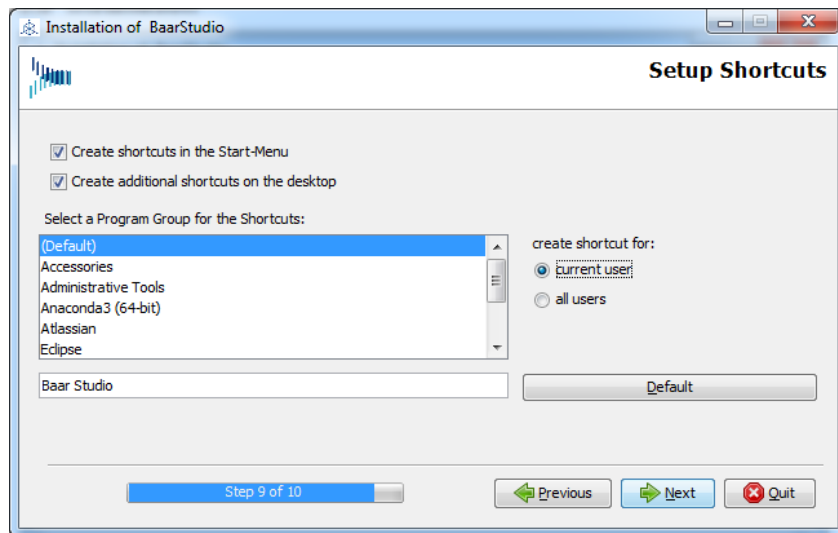
BAAR Configuration



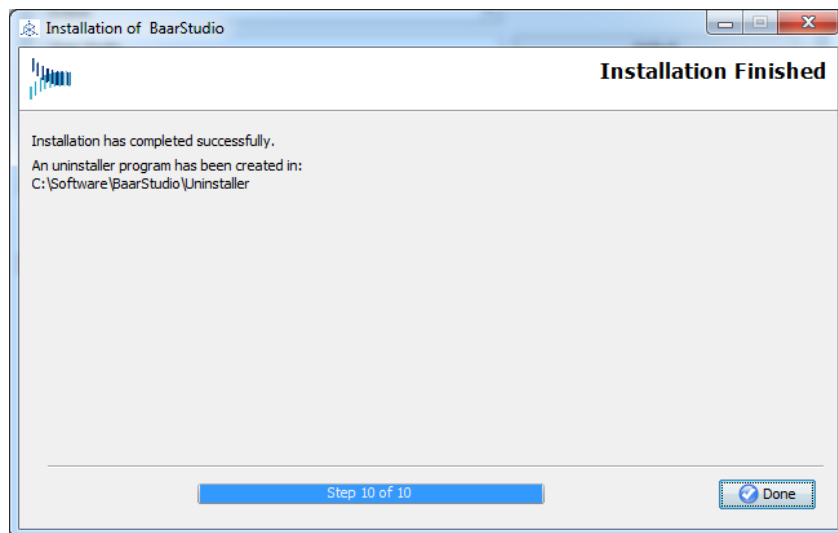
Installation



Setup Shortcuts



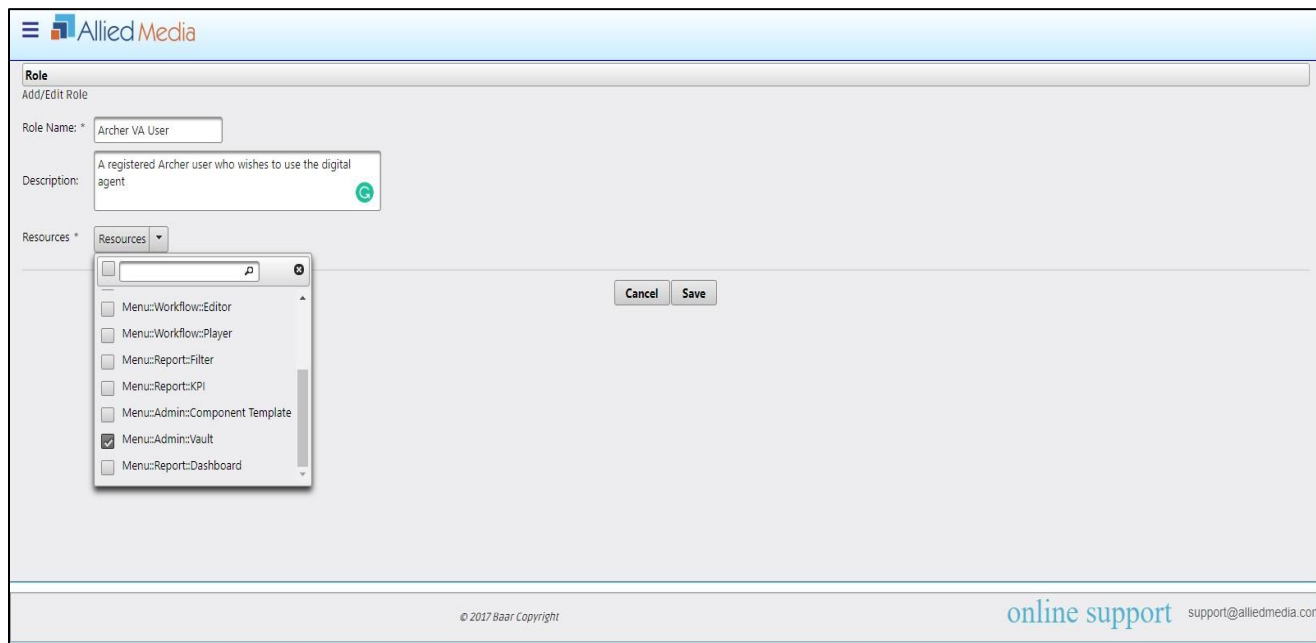
Installation Completion



Create Users in BAAR:

Add Role

1. Click on Admin> Role > Click on "+ Add Role" > Fill in the required details (below) > Save. You can give any name to the role, but access to the Vault must be given.



Add User

1. Click on Admin> User > Click on "+ Add User" > Fill in the required details>assign the role created above > Save. Add user information and click "Save". This activates the new users.

Deploy BOT on Skype for Business:

With the license details provided to you for BAAR, the relevant details will be provided for the BOT framework. Please reach out to your Skype Server administrator to set up the BOT.

RSA Archer GRC Configuration

No specific configuration is required within RSA Archer for BAAR to be used for control test automation. However, once BAAR is deployed BAAR will be accessing Archer using the following methods:

1. As a user: BAAR will need to be created as a user with the required access to RSA Archer in your environment
2. API: BAAR will connect to the API provided by RSA Archer for writing to forms within Archer etc.

Access will need to be provided to BAAR for the above-mentioned points.

Also, access will need to be provided depending on which controls need to be automated by you. If your organization uses a PAM (Privileged Access Management) solution, then appropriate access should be provided to the PAM solution and BAAR can accordingly gain access like any other privileged user would.

Once deployed, BAAR will be under your control, hence your data will remain secure within your network.

Certification Environment for RSA Archer GRC

Date Tested: March 26, 2019

Certification Environment		
Product Name	Version Information	Operating System
RSA Archer GRC	6.5	Virtual Appliance
BAAR - Digital Testing and Controls Automation for RSA Archer	0.1	