STRAIGHTLINE

AUTOMATION ANYWHERE
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Automation Anywhere Enterprise

Deploying Enterprise on Google Cloud PaaS Environments

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THE GOOGLE CLOUD PLATFORM

The cloud offers many advantages for IT managers, including scalability, pay-as-you-go pricing, lower cap-ex costs, high availability, and more. By moving the infrastructure "off-prem" and onto the cloud, IT personnel are freed up to focus on more advanced technologies to further streamline IT operations.

The Google Cloud Platform (GCP) is one of the leading cloud systems in the world. One of GCP's key strengths is its tie-in with G Suite, where applications like Docs, Sheets, Forms, and more are fully optimized. Robotic Process Automation (RPA) can further optimize these workloads do so efficiently in GCP.

RPA: PERFECT FOR AUTOMATING WORKLOADS IN GCP

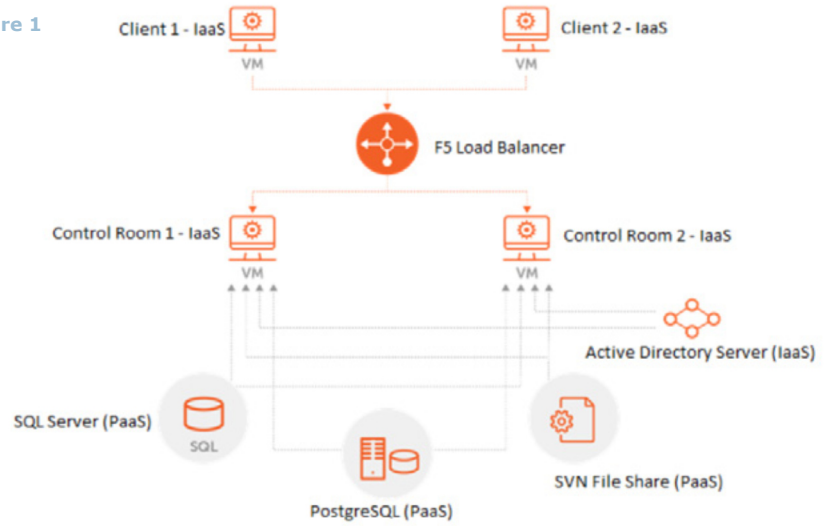
RPA is a software for the automation of repetitive tasks, reducing employees' mundane work, and improving efficiencies. Automation Anywhere® is a global leader in RPA, for both on-prem and cloud applications. Automation Anywhere's flagship product, Automation Anywhere Enterprise, addresses the unique and dynamic business process automation requirements of the enterprise.

This paper will discuss how to deploy Enterprise 11.3.3 in GCP.

DEPLOYING AUTOMATION ANYWHERE ENTERPRISE 11.3.3 IN GCP

The diagram below (Fig.1) shows the process flow of a typical GCP configuration. In this configuration, the customer utilizes infrastructure as a service (IaaS), platform as a service (PaaS), storage (SVN file share), and a workload (SQL, Oracle). All these elements can be automated by RPA.

Figure 1



The following is the environment configuration for GCP cluster environment.

AUTOMATION ANYWHERE ENTERPRISE 11.3.3 IN GCP— DEPLOYMENT STEPS

Utilize the following steps to securely deploy Enterprise 11.3.3 on GCP.

I. Configure the network security group as shown in Fig.2. This applies to all the servers in the cluster environment.

Figure 2

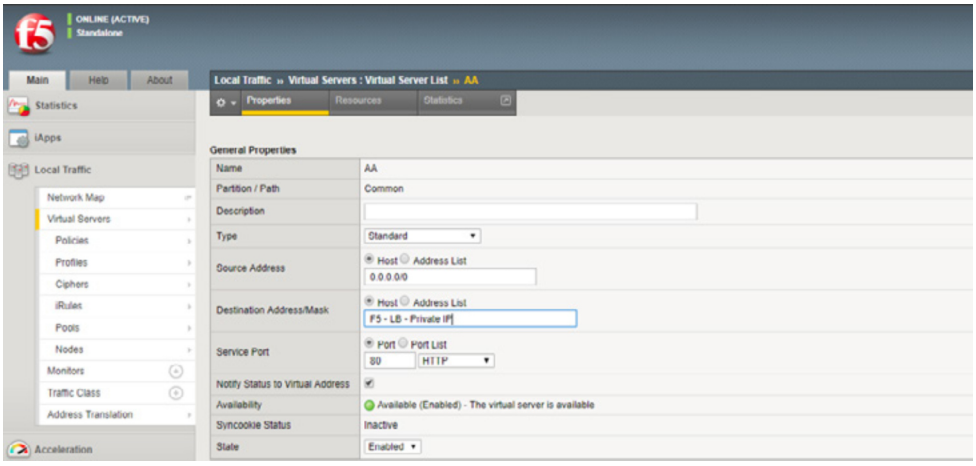
Names	Type	Targets	Filters	Products/ports	Action	Priority	Network ^
aarestrictedsecuritygroup	Ingress	aarestrictedsecuritygroup	IP ranges: LISTOF IPsprovided By ITSecurity Team	all	Allow	1000	default

Please note: In the IP ranges field, you can enter all the IPs of all VMs participating in this clustered environment.

II.F5 load balancer configurations:

1. If you are setting up the installation in a clustered environment, configure the virtual server in F5 load balancer. (Fig.3)

Figure 3



2. Set up the Pools and Nodes, configure the F5 load balancer for the VMs participating in the cluster. (Fig.4, Fig.5, Fig.6)

Figure 4

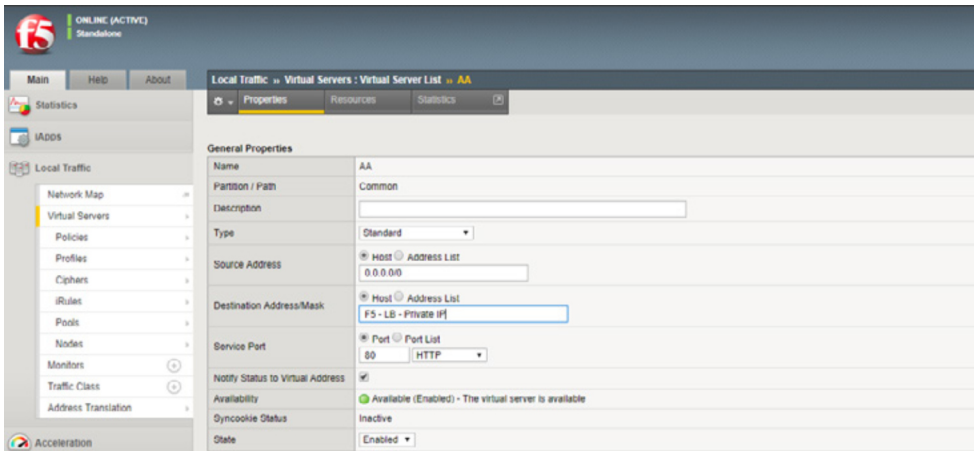


Figure 5

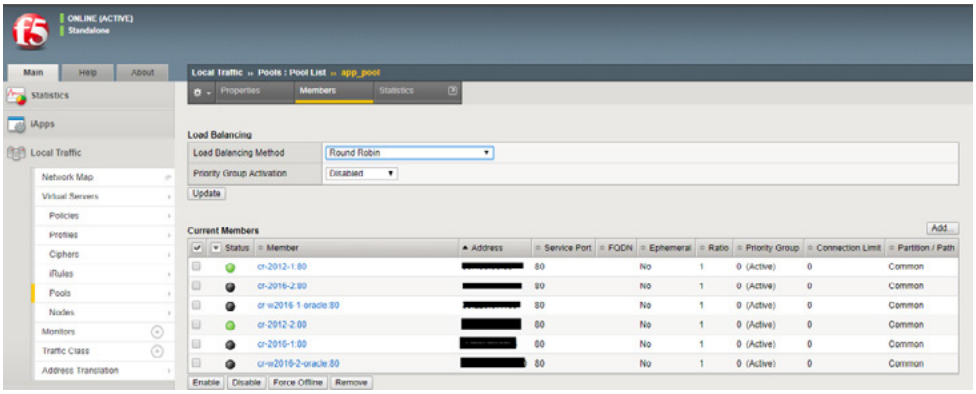
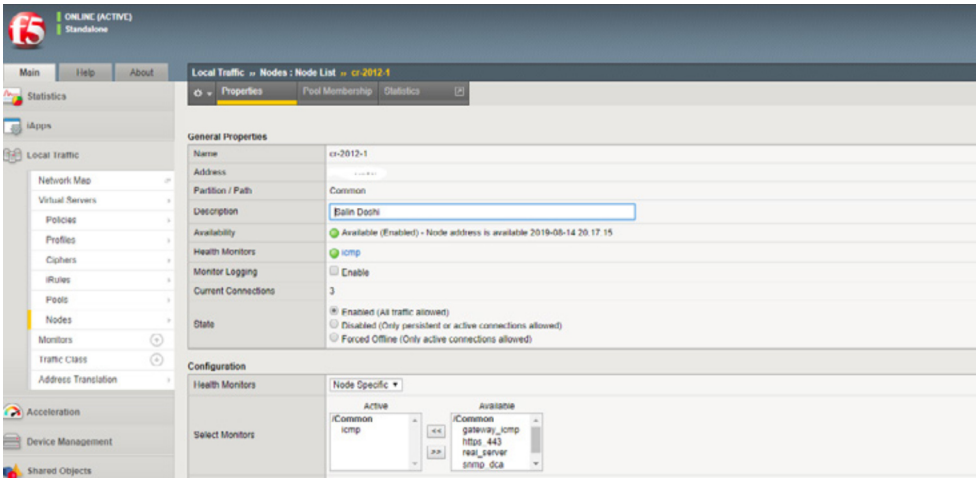
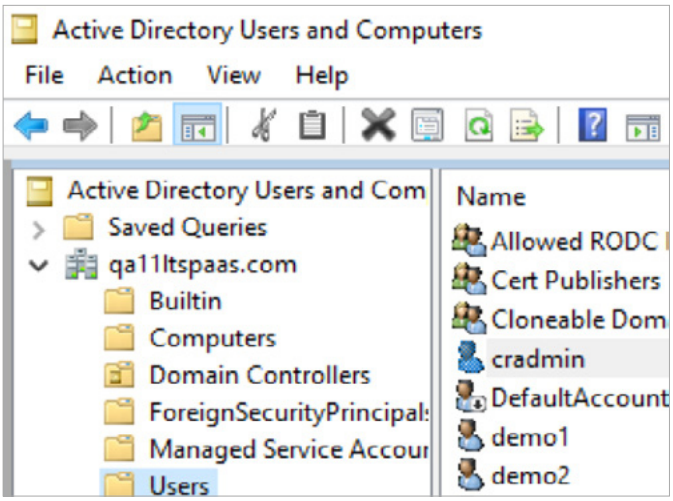


Figure 6



C. Configure Active Directory server (Fig.7)

Figure 7



1. Make sure all the VMs in the cluster environment can ping each other using private IP. (Fig.8)

Figure 8

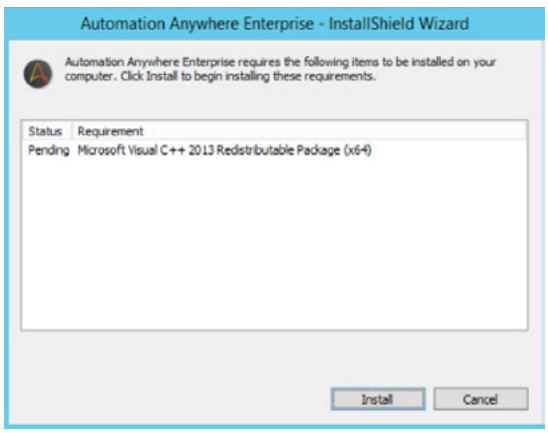
```
C:\Users\qapaascr02.QA11PAAS>ping 10.0.0.10

Pinging 10.0.0.10 with 32 bytes of data:
Reply from 10.0.0.10: bytes=32 time=1ms TTL=128
Reply from 10.0.0.10: bytes=32 time<1ms TTL=128
Reply from 10.0.0.10: bytes=32 time<1ms TTL=128
Reply from 10.0.0.10: bytes=32 time=1ms TTL=128

Ping statistics for 10.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

2. RDP to one of the Control Room nodes/servers and run the Control Room installer. Click 'Install' in Microsoft OLE DB Driver for SQL Server dialog box. (Fig.9)

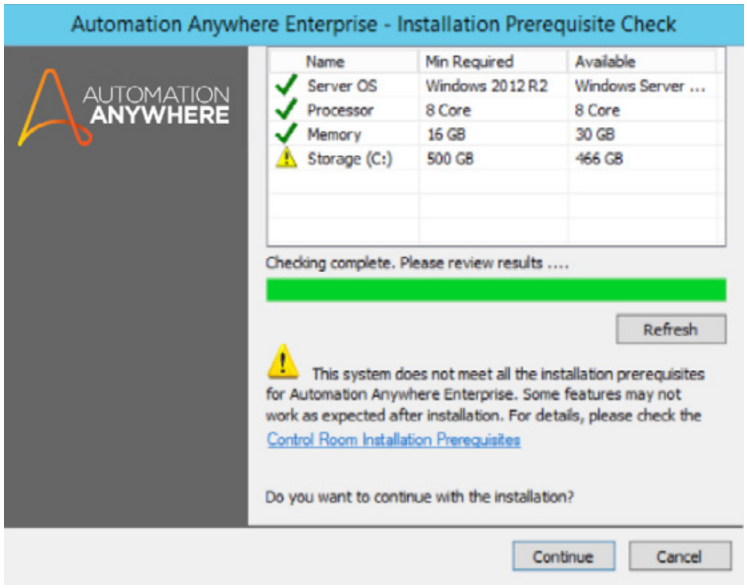
Figure 9



3. Click 'Next' on Welcome screen.
4. Select 'I accept…' radio button and click 'Next' on License Agreement screen.
5. Click 'Continue' button

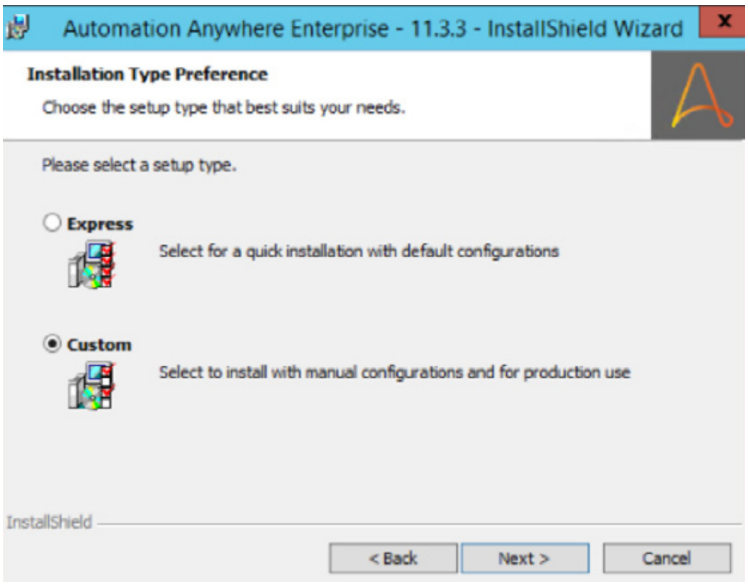
Please note: This checks for the basic system configuration needed for the product to function. Make sure it does not give any warnings (Fig.10)

Figure 10



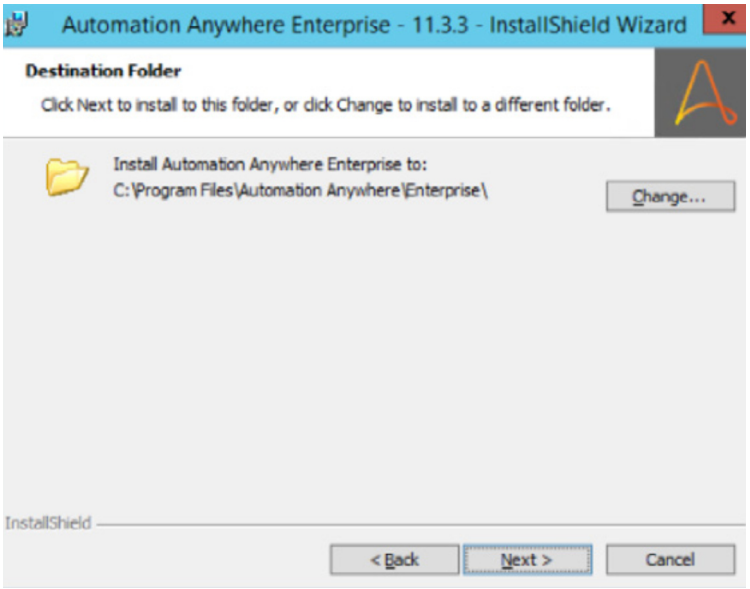
6. Select 'Custom' on Installation Type Preference screen and click 'Next'. (Fig. 11)

Figure 11



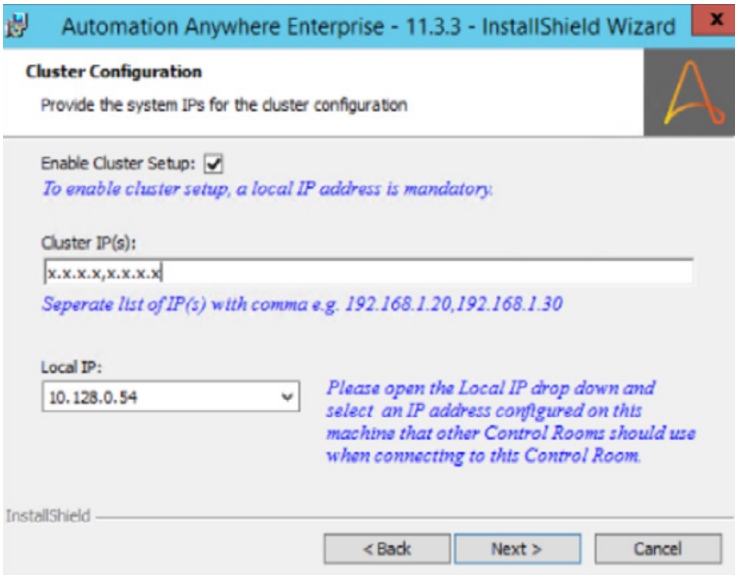
7. Click 'Next' on Destination Folder if you don't intend to change the installation location. (Fig. 12)

Figure 12



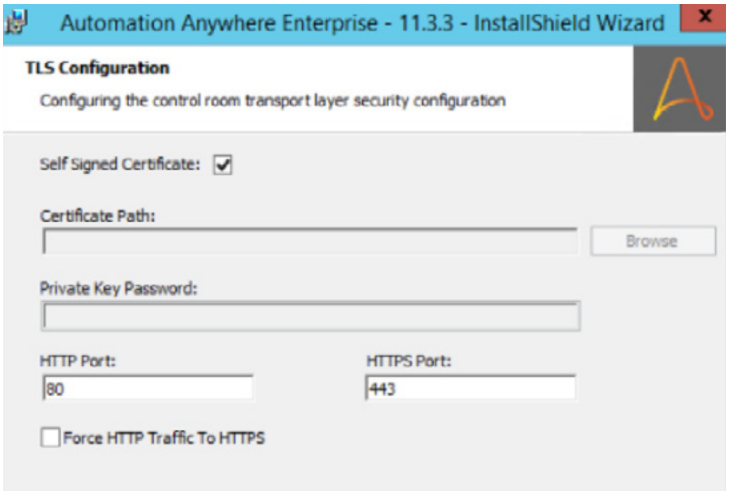
8. Enable Cluster Setup checkbox and provide the Private IP's of Control Room nodes getting installed in cluster (Fig.13). Click 'Next'.

Figure 13



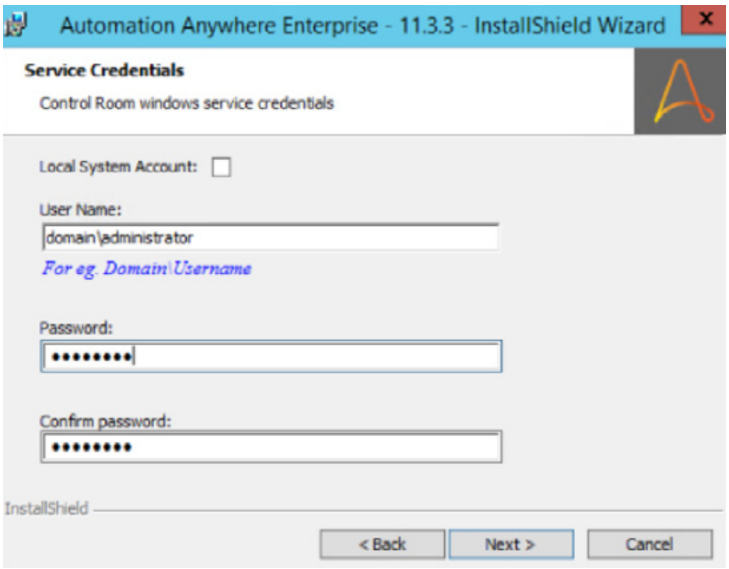
9. Click 'Next' on TLS Configuration screen. Fig. 14

Figure 14



10. On Service Credentials screen provide the domain, username, password details and click 'Next' to proceed. (Fig. 15)

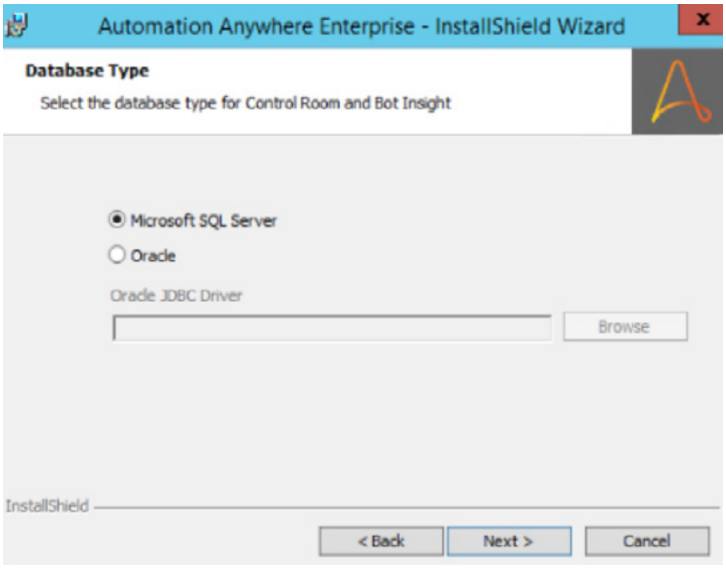
Figure 15



11. Select the Database Server and click 'Next'. Fig. 16

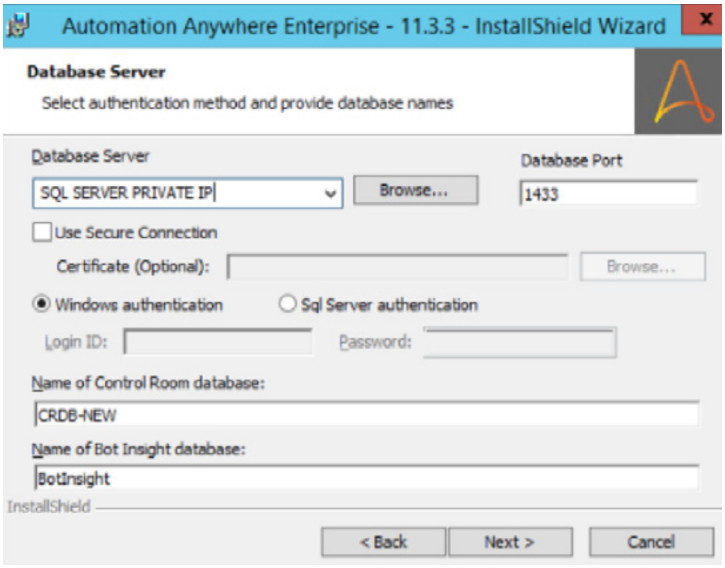
Please note: You can use SQL or Oracle DB. For example, let's proceed with SQL in this guide.

Figure 16



12. Provide Database Server details as in the below screen and click 'Next'. (Fig. 17)

Figure 17

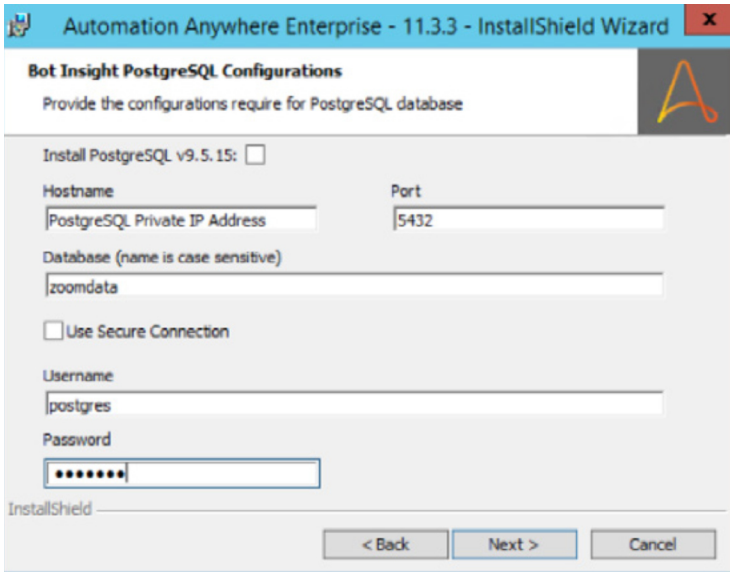


13. On Bot Insight PostgreSQL Configurations screen provide the details as in below screen and click 'Next'. (Fig. 18)

Please note: You can use PostgreSQL or Microsoft SQL Server for Bot Insight™.

Example picture below shows the server name and user details of PostgreSQL server on GCP.

Figure 18

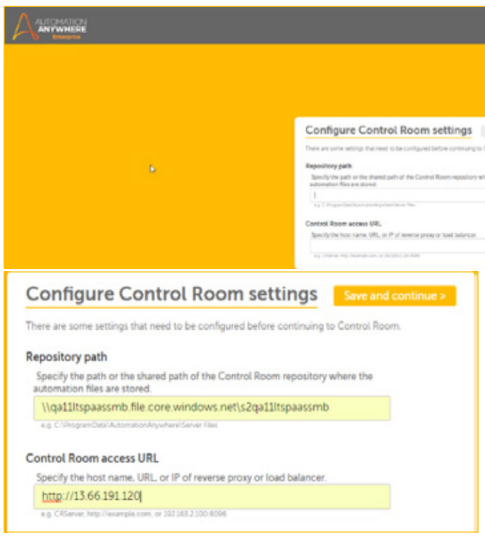


14. Click 'Install' on Ready to Install the Program screen.

D. Post successful install you will see screen shown in Fig.19.

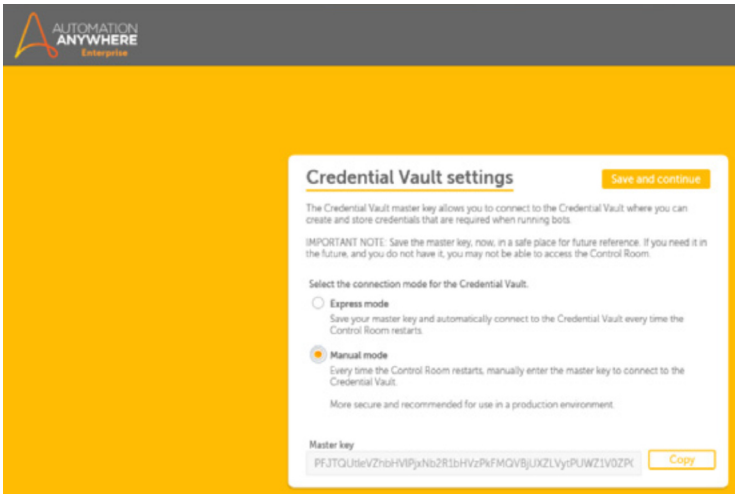
1. Enter SVN repository path and F5 URL as Control Room URL. Click 'Save and continue'.

Figure 19



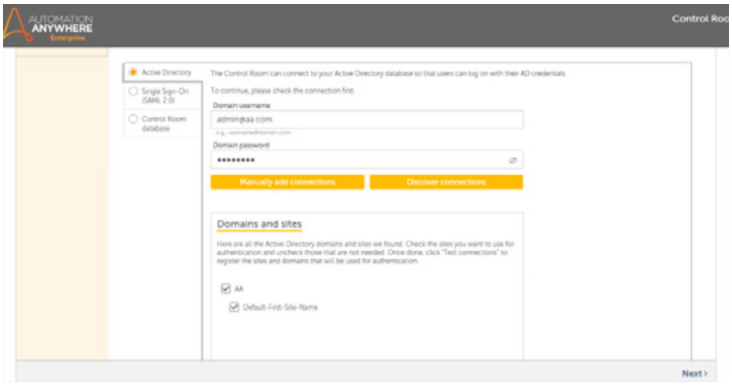
2. Copy the Master Key and save it as it will be needed if you restart the services. Select ‘Manual mode’ and click ‘Save and continue’. (Fig.20)

Figure 20



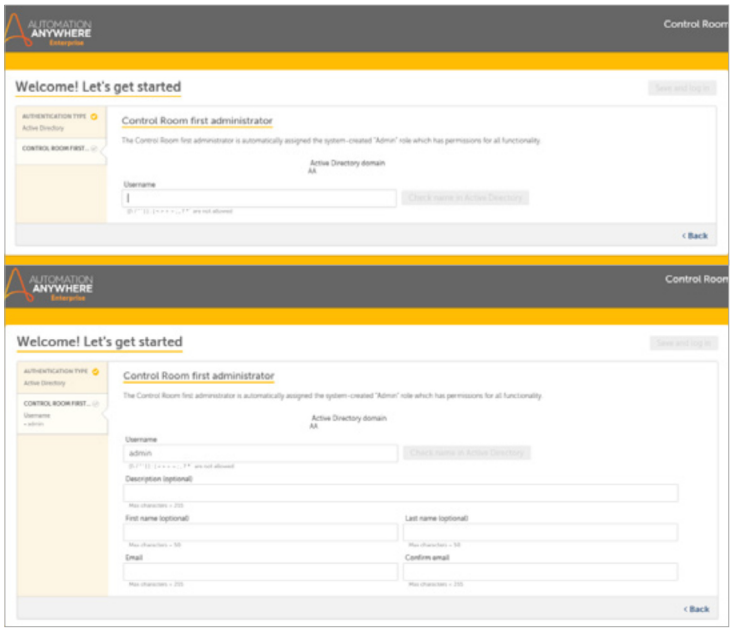
3. On the Active Directory screen populate domain/username and password details. Check the connection as shown below and if all the provided details are correct the ‘Next’ button will be enabled. Click ‘Next’. (Fig.21)

Figure 21



4. On create first Control Room Administrator screen provide the AD user previously created and click on 'Check name in Active Directory'. Upon validation it will load additional fields for further registration. Click 'Save and Log in'. (Fig. 22)

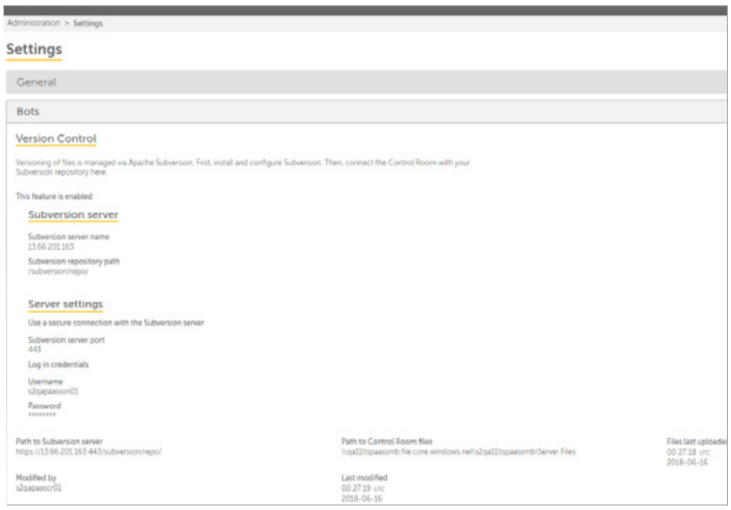
Figure 22



5. Create additional users on active directory as needed and create corresponding users on the Control Room. At this point you can continue with installing other Control Room nodes in the cluster.

6. Upon successful registration of SVN on Control Room, user will be presented with below screen. (Fig. 23)

Figure 23



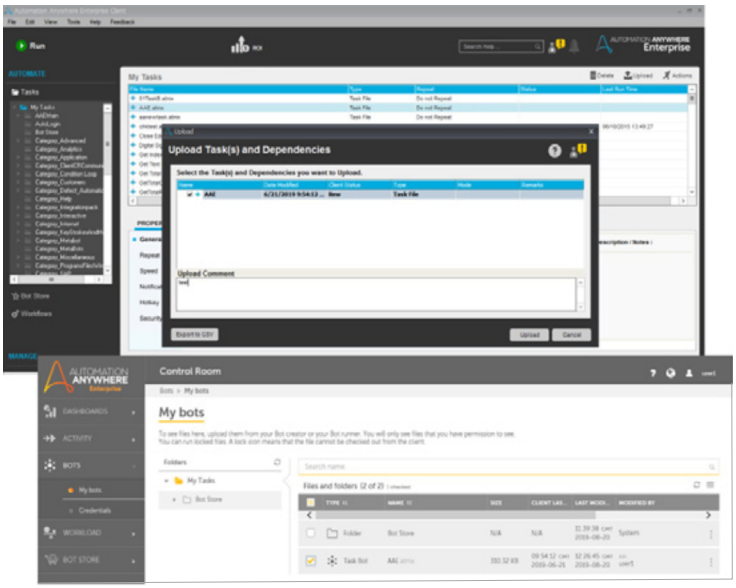
7. Similarly perform SMTP registration as shown below. (Fig. 24)

Figure 24

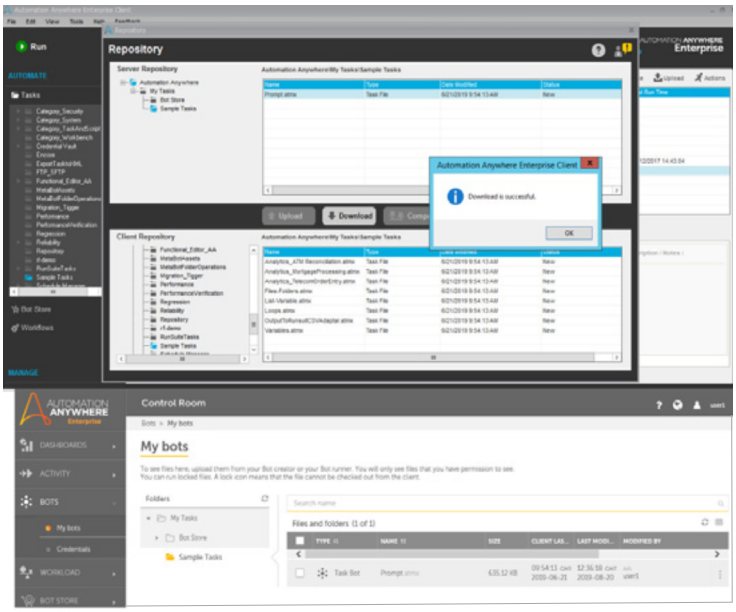
APPLICATION OF ENTERPRISE IN TERMINAL SERVER ENVIRONMENT

You can deploy the Enterprise platform in a multi-user terminal server environment

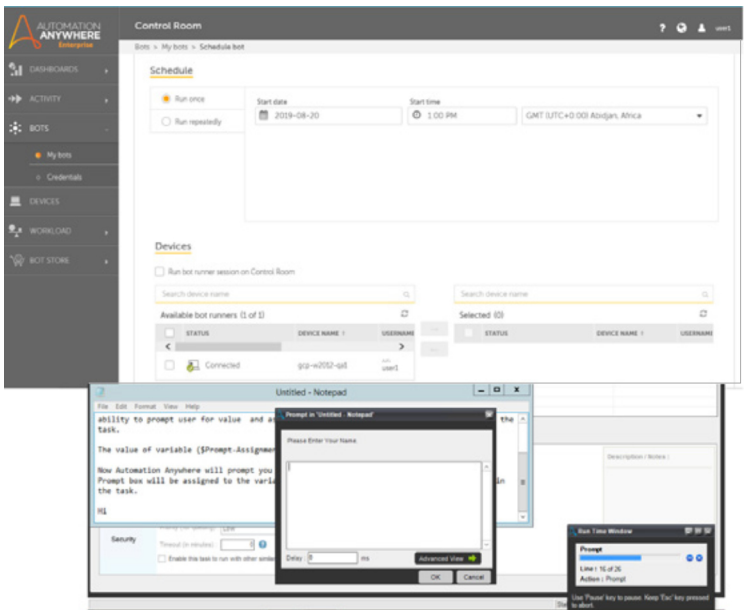
1. Upload various tasks to the Control Room from a Client:



2. Download tasks from the Control Room to a Client:



3. Schedule and run tasks from the Control Room:



4. Schedule and run tasks to multiple Clients using the terminal server
5. The installation is now complete. You are now ready to use the Automation Anywhere Enterprise product in the Google Cloud Platform.

FREQUENTLY ASKED QUESTIONS

Q. In a multi-user environment, how are Enterprise Client licenses managed?

A. Enterprise Client licenses are allocated per user. In multi-user environment, as each user has their own profile, you can continue to use the same Enterprise licensing model (allocating one licenses per each user).

Q. Can my automation tasks be accessed by another user in a multi-user environment?

A. Tasks can only be accesses and managed by an individual, each user has their own profile with file/folder segregation and the Client repository will also be different by default (unless shared among users).

Q. What about the data in the shared folders, e.g. Public Documents?

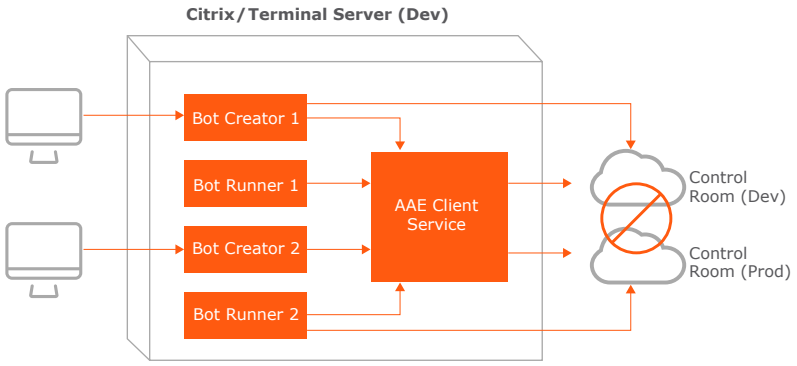
A. In a multi-user environment, Enterprise will put the data in a user-specific folder in the Public Documents directory.

Q. Is there any limit or performance degradation to Enterprise Client users in a multi-user environment?

A. No. Multiple users can concurrently use the Client from a terminal server/ Citrix environment. The performance of the product will directly depend on the network performance and quality of infrastructure.

Q. I have users with Enterprise Client installed on terminal server. I also have multiple Control Rooms hosted for development, UAT, and production. Can the users connect to the multiple Control Rooms?

A. No. Connecting to multiple Control Rooms from a Client instance hosted on a terminal server is not recommended. We recommend that users on the same terminal server connect to one Control Room.



AAE Deployment Diagram In Multi User Environment