

Gynisus Deployment Configuration Document

1. System Requirements:

System requirements will vary depending on no of users and patients

Small 200 patients

- OS: Windows Server 2019/ Windows Server 2016/ Windows Server 2012 R2/ Windows Server 2012, Windows 10, Windows 8.1
- 64-bit OS with .NET Framework 4.6.2 or above.
- CPU: 4 core, at least 2 GHz
- RAM: 20 GB+
- Disk Space: 756 GB+
- Database: MSSQL (MSSQL 2016 or above preferred) / Oracle SQL
- Network: At least 10 GB bandwidth
- Browser: Google Chrome
- The system should have JRE8.x or above installed and the path of java should be added to the system environment.
- 433 Outbound firewall rule
- Need to Enable TCP/IP client protocol in SQL server system configuration
- EMR
- HL7

Medium ~1000

- OS: Windows Server 2019/ Windows Server 2016/ Windows Server 2012 R2/ Windows Server 2012, Windows 10, Windows 8.1
- 64-bit OS with .NET Framework 4.6.2 or above.
- CPU: 6 core, at least 2 GHz
- RAM: 32 GB+
- Disk Space: 1536 GBs+
- Database: MSSQL (MSSQL 2016 or above preferred) / Oracle SQL
- Network: At least 15 GB bandwidth
- Browser: Google Chrome browser
- The system should have JRE8.x or above installed and the path of java should be added to the system environment.
- 433 Outbound firewall rule
- Need to Enable TCP/IP client protocol in SQL server system configuration
- EMR
- HL7

Large > 1000

- OS: Windows Server 2019/ Windows Server 2016/ Windows Server 2012 R2/ Windows Server 2012, Windows 10, Windows 8.1
- 64-bit OS with .NET Framework 4.6.2 or above.
- CPU: 8 core, at least 2 GHz
- RAM: 40 GB+

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- Disk Capacity: 1536 GB+
- Database: MSSQL (MSSQL 2016 or above preferred) / Oracle SQL
- Network: At least 15 GB bandwidth
- Browser: Google Chrome browser
- The system should have JRE8.x or above installed and the path of java should be added to the system environment.
- 433 Outbound firewall rule
- Need to Enable TCP/IP client protocol in SQL server system configuration
- EMR
- HL7

2. Database preparation and Integration

- 2.1. Schema Creation: Gynisus will provide SQL scripts to run as-is on the customer's server
 It will create the required database objects (Tables SPs, Functions, etc) on the tenant's existing database. In order to do that follow the below steps
 - 2.1.1. Open SSMS in your system
 - 2.1.2. Connect to respective SQL server where your database resides
 - 2.1.3. Open given .sql file in the SSMS client
 - 2.1.4. Choose the respective database
 - 2.1.5. Run the code SQL code.
 - 2.1.6. It should run without any error
- 2.2. **SQL Job:** Create SQL Job to perform calculations and populate required tables. To create an SQL job follow the below steps Gynisus will provide you the script to create the Jobs that you need to run and the rules for them.

3. Self-hosted Integration Runtime installation

In order to run the gynisus algorithm. Two tables should be pushed to the Azure environment. For that Self Hosted integration runtime should be installed on the tenant machine. Visit the Microsoft official portal <u>here</u> and follow all steps to complete the installation

- 3.1. Once downloaded, Install that set up on your machine where your database resides
- 3.2. Open the installed Integration Runtime (IR)



4. On the Register Integration Runtime (Self-hosted) page, paste the key you received in the email from Gynisus



4.1. After the self-hosted integration runtime is registered successfully, you see the following window:

📕 Mici	crosoft Integration Runtime Configuration Manager		×			
			\odot			
	Register Integration Runtime (Self-hosted)					
	Welcome to Microsoft Integration Runtime Configuration Manager. Before you start, registen hosted) node using a valid Authentication Key.	er your Integration Runtime	e (Self-			
			0			
	Show Authentication Key	ind the Authentication Key				
	HTTP Proxy					
	Current Proxy: No proxy Change					
	Integration Runtime (Self-hosted) node has been registered successfully.					
	Note: You can associate up to 4 physical nodes with a Self-hosted Integration Runtime. This enables high availability an scalability for the Self-hosted Integration Runtime. We recommend you setup at least 2 nodes for higher availability. <u>See Integration Runtime (Self-hosted) article for detai</u>					
	Launch Configuration	Manager Close	e			



5. Hybrid Connection Manager Installation

In order to connect web applications with an on-premise SQL server, HCM Agent needs to be installed on hospital machines.

- 5.1. Download setup from <u>here</u>
- 5.2. Install the agent where the SQL server database resides
- 5.3. You will be provided with a Connection String from Gynisus
- 5.4. Register Connection string with an agent
 - 5.4.1. Open Hybrid Connection Manager from your system
 - 5.4.2. Click on enter manually as below screenshot

About					
NAME	AZURE STATUS	AZURE STATUS SERVICE NAME ENDPOINT			
Add a new Hybrid (Add a new Hybrid Connection				
gyn-devvm-hcm	Connected	gyn-servicebus	dev-vm:1433		

5.4.3. Enter the given connection string and hit Add as below screenshot

Add Hybrid Connection From Connection String						
Connection String:						
		Add	Cancel			

Enter Manually

Refresh

- 5.5. Create an Outbound firewall rule for port 433
- 5.6. Restart the Azure Hybrid connection manager from computer services as below screenshot



🍓 Services							_		×
File Action View	Help								
🧟 Services (Local)	Services (Local)								
	Azure Hybrid Connection Manager		Name	Description	Status	Startup Type	Log On As		^
	Service Stop the service Restart the service		🎑 Auto Time Zone Updater	Automatica		Disabled	Local Service		
		~	AVCTP service	This is Audi	Running	Manual (Trig	Local Service		
			Azure Hybrid Connection Manager Service	Manages co	Running	Automatic (D	Network S		
			AzureAttestService		Running	Automatic	Local Syste		
			Background Intelligent Transfer Service	Transfers fil		Manual	Local Syste		
	Description: Manages connectivity for	~	Background Tasks Infrastructure Service	Windows in	Running	Automatic	Local Syste		~
	Extended Standard								

5.7. Now you should be able to see the status of the registered Connection manager in HCM application as connected as above 4.4.2 screenshot.

Once you see connected Inform Gynisus on the email StayConnect@Gynisus.com