

Morpheus – ServiceNow Integration

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INTRODUCTION

IT Service Management (ITSM) is an important area of focus. By and large most organizations I come across have an ITSM solution in place. ITSM solutions have evolved over the years beyond just Change Management Database (CMDB) and incident management (Incident, Problem, Change, and more). CMDB tools enable an effective IT Service delivery model. Most organizations expect significant value from their CMDB, which is why so much time and cost is invested in them.

This is no different for Morpheus clients. They have invested in ITSM and use Morpheus' unified orchestration and automation CMP to manage their hybrid IT. Morpheus ITSM integrations include leading technologies such as ServiceNow, Remedy, and Cherwell.

This document will focus specifically on leveraging the Morpheus – ServiceNow integration.

MORPHEUS – SERVICENOW INTEGRATION

The Morpheus – ServiceNow integration covers primarily four use cases that organizations may choose to take advantage of. Here's a short overview of each use case (we will dig deeper in later sections).

CMDB Integration

Organizations leveraging ITIL want to be able to track resources in their CMDB. When provisioning resources – regardless if this is done from Morpheus directly or by using the Morpheus Plugin for ServiceNow - Configuration Items (CI) are created in ServiceNow. When any updates are made to a resource in Morpheus the respective CI record is updated as well. This integration is turned on at the Group or the Cloud constructs in Morpheus.

Approvals Integration

In Morpheus, users can create Provisioning Approval Policies. Provisioning policies are configured to leverage native Morpheus approvals or ITSM-integrated approvals, in this case ServiceNow. This integration is activated by creating a Provisioning Approval Policy and selecting the configured ServiceNow instance that will manage the approval workflow process.

Incident Management Integration

If resources provisioned by Morpheus experience performance or health-related issues that lead to resource degradation or negatively impact resource availability, incidents are automatically raised in Morpheus. These incidents will automatically close once the degradation or health related issues have been resolved. The incidents can be modified and closed manually in Morpheus if desired. Organizations using ServiceNow would want these incidents to be visible in the ServiceNow portal. This integration is turned on in Morpheus by enabling the ServiceNow monitoring in Morpheus (in addition to the Morpheus monitoring).

Morpheus ServiceNow Plugin Integration

One of Morpheus' key strengths is Self-Service Orchestration and Automation. This is done in the Morpheus UI and can be consumed via CLI and API. Some ServiceNow users prefer to provision resources from the ServiceNow Service Catalog. Morpheus has released a plugin for ServiceNow. This can be installed from the ServiceNow Store. Once installed and configured, Morpheus Service Catalog Items can be presented in the ServiceNow Service Catalog for ordering. This integration is turned on by installing the Morpheus Plugin for ServiceNow and sharing the desired resources from Morpheus.

The Morpheus plugin supports both single and multi-tenant ServiceNow environments. When ServiceNow is configured for multiple tenants (companies), the Morpheus plugin will automatically detect this. Using the supplied service account credentials, Morpheus creates a link between a specific tenant and ServiceNow company. In doing so, integrated Clouds and catalog items from a distinct Morpheus tenant are only shared with the associated company on the ServiceNow side.

The remainder of this document will focus on the 4 integration areas mentioned above and provide more details on their setup, configuration, and consumption. Let's jump into the details...

INTEGRATION DETAILS

In order to take advantage of any of the above-mentioned integration use cases with ServiceNow, the very first step is to connect Morpheus to the ServiceNow instance(s).

To do this you will need the ServiceNow instance details. In Morpheus go to the Administration menu option and select Integrations. Select +New Integration and scroll down to the ITSM section and choose ServiceNow. Provide the ServiceNow details and then Save Changes. Please see figures below.

		EDIT SERVICENOW	INTEGRATION X
		NAME	HMSNDev47749-ga
			V ENABLED
		SERVICENOW	https://dev47749.service-now.com
	A 1 1 1 1	USER	admin
	Administration	PASSWORD	
s	(\$) Plans & Pricing	CMDB CUSTOM MAPPING	1
	$\mathcal{L}_{\mathbb{C}}$ Roles		
1	🔔 Users		
	1ntegrations		Specify what CI class to use when creating the CMDB record. By default, Configuration - Base Items - All (cmdb_ci_vm_instance) is used.
	Policies		SAVE CHANGES

Again, this initial step simply connects Morpheus with ServiceNow. In the list of integrations, you will now see the integration entry available.



If you have multiple ServiceNow instances that you would like to connect you can simply repeat the instructions above.

Integration dialog field descriptions

- **NAME:** Friendly name you would like to describe your ServiceNow instance integration
- **ENABLED:** Enable or disable this integration. An integration entry can exist, but this integration can be disabled by unchecking ENABLE
- **SERVICENOW HOST:** The ServiceNow instance you are connecting to. (remember you can create multiple ServiceNow integrations if you have multiple ServiceNow instances)
- USER/PASSWORD: The User credentials that Morpheus will use to interact with ServiceNow. This is a ServiceNow user with the appropriate roles assigned in order for these integration use cases to work properly. In a multi-tenant installation, this user must be a member of the company to which you intend to expose Morpheus catalog items later. Here's a list of the ServiceNow roles necessary:
 - x_moda_morpheus_ca.integration (will be available if/when the Morpheus ServiceNow Plugin is installed from the ServiceNow Store

- o catalog_admin
- o itil
- rest_service
- web_service_admin
- import_transformer
- **CMDB CUSTOM MAPPING:** If there is a desire to populate some specific field in the ServiceNow table, specify the field mapping here. This is a JSON code snippet. In the example below we are mapping a field in ServiceNow which has a label of "object_id" and we are populating it with the value in the Morpheus variable "\${instance.name}"

```
{
"object_id":"<${instance.name}>"
}
```

- **CMDB BUSINESS OBJECT:** By default, Morpheus will populate the ServiceNow table using the following configuration item (CI) class "cmdb_ci_vm_instance". Users wanting to populate a different CI class would simply enter that class in this field
- **DEFAULT CMDB BUSINESS CLASS:** Specify a default CI class to be used when creating the CMDB record. By default, Configuration Base Items All (cmdb_ci_vm_instance) is used.

There are additional integration areas that will be discussed in the corresponding integration sections below.

Activating the CMDB Integration

As noted earlier, users wanting to update the ServiceNow CMDB with CI records of any services provisioned using the Morpheus CMP would enable this capability. Any updates made to a resource in Morpheus also have their respective CI record updated as well. To turn this on it's really a matter of assigning the ENABLED ServiceNow integration defined earlier to a Morpheus Group, or directly to a defined Cloud environment.

GROUP definition: A Group defines which resources a user has access to. This is defined by User Roles. Defined Clouds are then added to the group, and users can only access those assigned Cloud environments.

CLOUD definition: A cloud is a set of resources that reside in a private or public cloud or bare metal servers. These cloud integrations can belong to one or more groups.

EDIT GROUP	×
Configuration	
NAM	E MKTG-PublicCloud
COD	E
LOCATIO	N
 Advanced Opti 	ions
DNS SERVIC	E Please Select ~
CMD	B HMSNDev47749-qa
SERVICE REGISTR	Y Please Select ~
	SAVE CHANGES

Above, I have a group named **MKTG-PublicCloud** and I've assigned the CMDB integration to be the ServiceNow integration created earlier. From the Morpheus platform any resources deployed to the **MKTG-PublicCloud** group will now have CI entries created in the ServiceNow CMDB. Any updates in Morpheus to the resource will also be reflected in the ServiceNow CMDB. If there is a preference to do this at the Cloud level, you would simply assign the CMDB integration at the Cloud object. Here's an example of that below where one of the many options in a Cloud configuration is CMDB integration.

BACKUP P	ROVIDER	Internal Backups	\sim
BEP	LICATION	None	~
	ROVIDER	None	
G	UIDANCE	Manual	\sim
	COSTING		
	COSTING	Costing and Reservations	~
DNS INTE	GRATION	Please Select	\sim
SERVICE F	DECISTRY	Please Select	~
SERVICE	LOISINI	riease Select	-
	CMDB	HMSNDev47749-qa	\sim
AGENT	INSTALL	Cloud Init / Unattend (when available)	\sim
	MODE		
A	PI PROXY		\sim
Provision	oning Com	nmand	
	-		
		SAVI	CHANGES

Below is an example of provisioning a resource from Morpheus and then having it create the CI record in the ServiceNow CMDB

	MMDMACT1001 MKTG-PublicCloud (HM-AWS)	
Summary		
INSTANCE OPTIONS	5	VOLUMES
NAM	E MMDMACT1001	ROOT: 10 GB gp2
GROUP	MKTG-PublicCloud	
CLOUE	: HM-AWS	NETWORKS
TYPE	E: ActiveMQ	LABS_APP_1A (SUBNET-964389F2): DHCP
	I Amazon T2 Nano - 1 Core, 0.5GB Memory 1 Memory: 512MB	
VERSION	4: 5.11	
LAYOU	T: Amazon ActiveMQ	
PRICE	E: \$5.2456 / Month	

The instance I just created is alive and well (below)

Search	All Groups	 ✓ All Clouds 	 ✓ All Statuses ✓ 		+	ADD	ACTIONS -	•
NAME	✓ SUMM.	ARY	LOCATION	STATS				
MMDMACT1001	Console	e: 10.226.12.244:8161	Group: MKTG-PublicCloud		\bigcirc	0	54	15

The corresponding CMDB entry in ServiceNow is now available too!

Service Management				
$\bigtriangledown Filter navigator$	E Configuration Items New Search	Updated v Search		
e ★ O	₩ All			
() Self-Service - Service Catalog		Manufacturer E Location		
E Self-Service - Requested Items			_	
📒 Self-Service - Incidents	(i) <u>MMDMACT1001</u>	(empty) (empty)		

Looking at the details of that record I see the following

Servicenow. Service Management	Service Management District The Administrator The Control of Contr				Q 🗗
Filter navigator	< E Virtual Machine Inst MMDMACT1001	itance	Ð	Dashboard Form Update	Delete
(i) Self-Service - Service Catalog	Name	MDMACT1001	CPUs	1	
Self-Service - Requested Items	State On	n •	Disks	1	
📒 Self-Service - Incidents			Disks size (GB) Memory (MB)	10	
📒 Self-Service - My Requests			Network adapters		
📒 Configuration - All	Object ID MM	MDMACT1001			
Morpheus Catalog	F				

Please note that I added a CMDB CUSTOM MAPPING JSON snippet (below) in the integration record, we also see the **Object ID** field populated with the corresponding value from Morpheus as indicated by the red arrow in the figure above. One can also have multiple fields in ServiceNow populated from Morpheus, simply add the field mappings to the JSON code snippet in the CMDB CUSTOM MAPPING area.

CMDB CUSTOM MAPPING	{ "object_id":"<%=instance.name%>" }

If you choose to have multiple field mappings, the code snippet will look like the following example. Lines 2 and 3 are just examples, please substitute the actual desired ServiceNow field labels, and Morpheus variables

CMDB CUSTOM { MAPPING "object_id":"<%=instance.name%>"; "SN_field_id2":"<%=Morph.varname2%>"; "SN_field_id3":"<%=Morph.varname3%>" }

A list of the Morpheus variables can be found here:

https://docs.morpheusdata.com/en/latest/troubleshooting/Variables Examples.html

When a provisioned resource is deleted in Morpheus, the corresponding CI record in ServiceNow will change from **On** to **Terminated**.

State	Terminated	•

NOTE: Morpheus does set quite a few more fields by default on the CI record. Fields like IP Address, FQDN, and more.

In ServiceNow you can edit or create a new view that has many more of these fields. Here's an example.

	Machine Instance CT1001 [Morpheus view]			Dashboard Form Up
	1			
N	Name	MMDMACT1001	Fully qualified domain name	mm-hostname-1.localdomain
New default	IP Address	10.226.12.244	Memory (MB)	512
view called	State	Terminated	CPUs	1
Morpheus View with	Operational status	Operational	▼ Disks size (GB)	10
many	Environment	None	Disks	1
more fields	Domain	global	A MAC Address	
visible	Installed	2020-06-16 08:49:50	囲 Start date	Ē
	Server		کی Status	Installed
	Serial number		Cost center	Q
	Updated by	admin	VM Instance ID	
	Created by	admin		
	Cost		Object ID	MMDMACT1001
	Description	Provisioned from Morpheus: https://qa.morpheusdata.com/provisioning /instances/108845/nodes/207176	Comments	Provisioned from Morpheus: https://qa.morpheusdata.com/provisioning /instances/108845/nodes/207176

Activating the Approvals Integration

Approvals can be handled in Morpheus; however, some organizations choose to have ServiceNow be the approval authority and take advantage of the ServiceNow approval workflows. To enable this capability, one must create a **Provisioning Approval** policy in Morpheus and assign the ServiceNow instance that will manage the approval workflow process and choose the scope this policy will be applied to. Once activated approval checks take place every 1 minute.

From the Administration menu navigate to Policies, and then select +ADD POLICY

NEW POLICY	×
TYPE	Provision Approval ~
NAME	Provisioning Approval Policy
DESCRIPTION	Must be approved by ServiceNow
	V ENABLED
Config	
APPROVAL INTEGRATION	HMSNDev47749-qa
WORKFLOW	Service Catalog Request
Filter	
SCOPE	Group
GROUP	MKTG-PublicCloud ~
	SAVE CHANGES

For the **TYPE**, select the **Provision Approval** from the dropdown. Provide the **Name** and **Description**.

The **Config** and **Filter** sections are the important sections.

For **APPROVAL INTEGRATION**, select the dropdown and change it from **Internal Approvals** to the ServiceNow Integration you desire (in this case it's **HNSNDev47749-qa**). The ServiceNow approval workflow you will want to use is **Service Catalog Request** (unless you have some other desired workflow).

The **Filter** is how we decide what portion of the environment this policy applies to. The **SCOPE** has 5 options to choose from: **Global, Group, Cloud, Role, User**. We have selected **Group** and chose **MKTG-PublicCloud**. By doing so, anything provisioned in Morpheus to the **MKTG-PublicCloud** group must be approved in ServiceNow.

Let's demonstrate what this will look like now that we have an approval policy in place.

Search	Q All Groups	✓ All Clouds ✓ A	II Statuses	\sim			
				+	ADD	ACTIONS -	\$ -
NAME	 SUMMARY 	LOCATION	STATS				
MMDMAPA1 001 Dev	Request: Waiting For Approval [RITM0010040 - REQ0010039] Version: 2.4	Group: MKTG-PublicCloud Clouds: HM-AWS	STATUS	(?	0 MAX CPU		O

Upon provisioning an instance or application from Morpheus, the instance is now added to the instances list, but in a **Waiting for Approval** state. We are also presented with the ServiceNow Request Number and Request Item Number. Go to ServiceNow to approve (or reject) this service request.

In ServiceNow go to the **My Requests** page, and then find the request **REQ0010039**. From the request we will open the request item **RITM0010040** to approve it.

Servicenow. Service Management							🥘 System A	dministra	itor 👻	
Filter navigator	< Requested Iter	n			Ð	∿ ‡ ∾	• Follow	•	Update	
★ ①	Number	RITM0010040			Opened	2020-06-16 1	4:13:59		æ	
Self-Service - Service Catalog	Item	Morpheus Instance (Apache)	Q	0	Opened by	System Adm	nistrator		Q	
 Self-Service - Requested Items Self-Service - Incidents 	Request	REQ0010039	Q	0	Stage	Work in Progress				
•	Requested for	System Administrator	Q	(i)	State	Closed Incomplete				
E Configuration - All	Due date	2020-06-18 14:13:59			Quantity	Closed Sk	ippea			
Morpheus Catalog	Configuration item		Q		Estimated delivery				æ	
i Properties	Watch list	8			Backordered					
(i) Contact Us					Order Guide				٩.	
	Variables									
	Requested For									
					Q					
	Details									
	Instance Name: MI Instance Type: Apa	ketingAdmin MarketingAdmin 4DMAPA1001	8854							

Change the State from **Open** to **Closed Complete** is the equivalent of approving this for request. You must then update this request item by clicking the **Update** button.

Now in the Morpheus UI we will see the instance transition to a blue **Provisioning** state, and eventually to a green **Running** state.

Search	Q All Groups	\sim All Clouds \sim	All Statuses	\sim			
				+	ADD	ACTIONS -	¢ -
NAME	 SUMMARY 	LOCATION	STATS				
MMDMAPA 001	1 Http: 10.226.12.18:80 Version: 2.4	Group: MKTG-PublicC Clouds: HM-AWS		\oslash	0	33	9
Dev	Virtual Machines: 1		STATUS	HEALTH	MAX CPU	MEMORY	STORAGE

Note: In the example above the resource request was initiated from Morpheus. If you are provisioning resources from the ServiceNow Service Catalog by using the Morpheus Plugin for ServiceNow (discussed later), this approval process will function the same way. A ServiceNow user would request the service from the ServiceNow Service Catalog. Morpheus would present the instance or application in a **Waiting for Approval** state. A ServiceNow approver would have to approve the request before the provisioning would proceed in Morpheus.

Activating the Incident Management Integration

As noted earlier, incidents in Morpheus will open and close based on the health of their respective resource services. Organizations using ServiceNow may prefer to have these incidents be visible in the ServiceNow portal. This integration must be enabled in Morpheus.

From the Administration menu navigate to Monitoring. Note there are other integrations possible.

Monitoring Settings	
APP DYNAMICS	
▶ service <mark>n⊍w</mark>	ENABLED
▶ ○ New Relic.	

Expand the ServiceNow section to enable and choose the desired configuration and behavior. Select **Enabled**. From the Integration dropdown select the desired ServiceNow instance (remember you can have multiple ServiceNow instances configured for integration in Morpheus).

For the **New Incident Action** selection there are two options, **No Action** or **Create new incident in ServiceNow**. I always choose the later - **Create new incident in ServiceNow**.

For Close Incident Action there are three options, No Action, Add Activity to Incident in ServiceNow, or Resolve Incident in ServiceNow. Again, I choose the later - Resolve Incident in ServiceNow.

The ServiceNow Impact can also be modified against the Morpheus severity levels. These are mostly left at the default levels.

		ENABLED					
HMSNDev47749-qa		~					
Create new incident in Service	Create new incident in ServiceNow						
The Service Now action to	take when a Morpheus incid	lent is created.					
Resolve Incident in ServiceN	\sim						
The Service Now action to MORPHEUS SEVERITY	take when a Morpheus incid	lent is closed.					
Info	Low						
Warning	Medium 💌						
Critical	High •						
APPLY							
	Create new incident in Servic The Service Now action to Resolve Incident in ServiceN The Service Now action to MORPHEUS SEVERITY Info Warning Critical	Create new incident in ServiceNow The Service Now action to take when a Morpheus incident in ServiceNow The Service Now action to take when a Morpheus incident MORPHEUS SEVERITY SERVICE NOW IMPACT Info Low Warning Medium Critical					

To demonstrate the behavior, I will purposely break an instance to cause an incident creation to trigger in Morpheus and then in ServiceNow.

Search Q All Groups						Oops, I broke my Apache instance		
	 Q All Groups ✓ SUMMARY 	All Clouds All LOCATION	I Statuses STATS	+	ADD	ACTIONS -	* •	
MMDMAPA1 001 Dev	Http: 10.226.12.18:80 Version: 2.4 Virtual Machines: 1	Group: MKTG-PublicCloud Clouds: HM-AWS	STATUS	K	0 MAX CPU	34 MEMORY	9 STORAGE	

In Morpheus the incident looks like the following. Its severity is critical, and the status is open.

🐼 моғ	RPHEUS						Support+	💮 Marketing	gAdmin Market
Operations	Prov	isioning	Infrastructure	Backups	Logs		Monitoring	Tools	Adn
🖳 Status	888 Apps	⊘ Checks	Groups	1ncidents	② Contacts	Ú	Alert Rules		
		MMDMAPA1001 5: MMDMA PA1001	PA1001				ми	TE EDIT	CLOSE
	Start 06/16/202	0 06:06 PM	End		Duration 17 minutes		Status open]	
	Issues	History Mer	nbers						
	SEVERITY	AVAILABLE		TYPE	NAME		D	ATE CREATED	
	9	No		Group	MMDMA	PA100	11 17	' minutes ago	

In ServiceNow navigate to the **Self-Service – Incidents** page to see the new incident. The description will indicate that it was a Morpheus Incident and the resource name.

Servicenow. Service Management								🥘 System Ac	lministrator 👻 O
Filter navigator		Incidents	[Self Service view]	ew Searc	h Number	▼ Search		~ ~	• •
e 🔺 ()	\bigtriangledown	All > Calle	r = System Administrato	r > Active = tr	Je				
(i) Self-Service - Service Catalog	ξ Ω ε	Q	■ Number ▼		\equiv Opened		\equiv Short description	■ Created	\equiv Closed
U Self-Selfice - Selfice Catalog			Search		Search		Search	Search	Search
Self-Service - Requested Items			INC0010012		2020-06-16 15:0	6-04	Morpheus Incident: MMDMAPA1001	2020-06-16 15:06:04	(empty)
📒 Self-Service - Incidents		0	INCOULOUZ		2020 00 10 15.0	0.04	Morpheus meldent, MMDMAI A2002	2020 00 10 15.00.04	(empty)

Expand this incident in ServiceNow to get additional details.

Service Management						
Filter navigator	< Incident					
e 🛨 ()	Number INC0010012	Opened 2020-06-16 15:06:04 GH				
(j) Self-Service - Service Catalog	Number INC0010012 ★ Caller System Administrator Q 6℃ ①	Opened 2020-06-16 15:06:04				
Self-Service - Requested Items	Watch list	Urgency 1 - High				
📒 Self-Service - Incidents		State New 🗸				
📒 Self-Service - My Requests	* Short description Morpheus Incident: MMDMAPA1001					
📒 Configuration - All						

Resolving the health condition on the Apache server will cause the incident to close in Morpheus and therefore ServiceNow.

	IMDMAPA1001 : MMDMAPA PA1001	x1001		MUTE EDIT O
) 06:06 PM History Member	End 06/16/2020 06:31 PM s	Duration 25 minutes	Status closed
SEVERITY	AVAILABLE	TYPE	NAME	DATE CREATED
@	No	Group	MMDMAPA1001	28 minutes ago

In ServiceNow this will be indicated as **Resolved**.

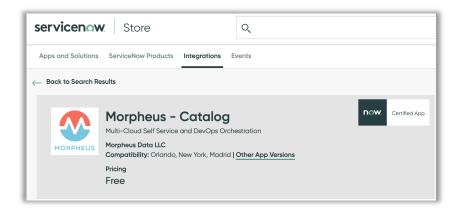
Servicence. Service Management						System Administ	rator 🔻
Filter navigator	< Incident	elf Service view]	P -	∿ ‡	000 Follow	▼ Update	Resolve
 Self-Service - Service Catalog Self-Service - Requested Items Self-Service - Incidents Self-Service - My Requests Self-Service - My Requests Configuration - All 	Number ★ Caller Watch list ★ Short description	INC0010012 System Administrator Q B A Morpheus Incident: MMDMAPA1001	•	Opened Closed Urgency	2020-06-16 15:06: 1 - High Resolved	04	
Morpheus Catalog			Related Search Results >				
i Contact Us	Additional comments (Customer visible)	Additional comments (Customer visible)					
	Activities: 5	System Administrator Incident is closed in Morpheus			Additional comm	ents • 2020-06-16	Post
		Resolution code Closed/Resolved by Caller Incident state Closed by Caller			Field Cha	nges • 2020-06-16	15:31:23

Activating the Morpheus ServiceNow Plugin Integration

ServiceNow users that prefer to provision resources from the ServiceNow Service Catalog can do so by installing the free Morpheus Plugin for ServiceNow. This can be installed from the ServiceNow Store. It does require you have your HI Credentials to get this plugin. Once installed and setup, Morpheus self-service catalog items can be presented in the ServiceNow Service Catalog for ordering.

The Morpheus plugin supports integration with ServiceNow whether it's configured for a single tenant or for multiple domains. When both Morpheus and ServiceNow are configured for multiple Tenants, we can create ServiceNow integrations in any relevant Morpheus Tenant and map those to specific companies in ServiceNow. Any exposed catalog items would only be shared with users in the relevant ServiceNow company. The Morpheus plugin will automatically detect whether the ServiceNow Domain Support – Domain Extensions Installer plugin has been installed and respond accordingly. Additionally, *the User Criteria Scoped API plugin must also be enabled on the ServiceNow instance for multi-tenant use.* Depending on the scenario, setup steps for the Morpheus plugin will be slightly different. Setup steps for both single and domain-separated ServiceNow environments are included below.

Single Tenant Configuration



Once installed in ServiceNow, the Morpheus environment details must be configured in the Properties section. In ServiceNow go to **Morpheus Catalog** and select **Properties**. On this page provide the URL to the Morpheus appliance and the user credentials. This user in Morpheus must have the necessary Morpheus privileges to provision to the exposed clouds, library instances and blueprints. If using a MID server, you can also specify the name here and Morpheus will utilize it.

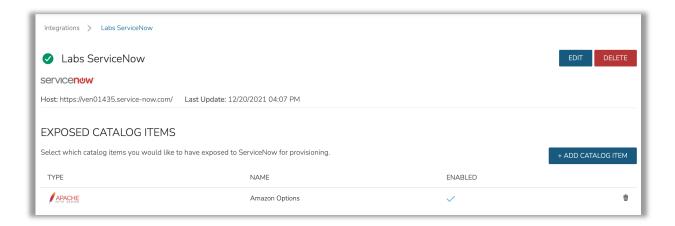
Multi-Tenant Configuration

Once the ServiceNow plugin is installed, Morpheus environment details are configured in the Multi-Tenant Credentials section. Selecting the Properties section, where these details would be configured in a single tenant installation, will simply link you through to the Multi-Tenant Credentials section when Multitenancy is detected. On this page, click "New" to start a new Tenant-Company association, then provide the URL to the Morpheus Appliance, the Morpheus Tenant ID and user credentials. You must provide credentials to a Morpheus user in the same Tenant as the ServiceNow integration was created on the Morpheus side. Next, select the ServiceNow Company. This must be a company that includes the ServiceNow user you integrated with on the Morpheus side. Finally, configure the MID server name, if necessary.

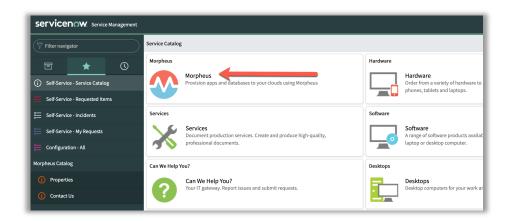
Continue on to the next section to expose catalog items from this Tenant to the now-associated ServiceNow company.

Exposing Catalog Items to ServiceNow

Self-Service Catalog Items are shared from the **Exposed Catalog Items** tab. New Catalog Items are built by accessing **Catalog Items** from within the Library > Blueprints menu. New Catalog Items can be exposed in ServiceNow by clicking **+ADD CATALOG ITEM**.



The Morpheus catalog items are made available in the ServiceNow Self-Service – Catalog



Selecting **Morpheus** will then show the exposed Morpheus items. From here a ServiceNow user would order any of the exposed services.

If a customized Catalog in ServiceNOW is required instead of the 'Service Catalog' or if the 'Service Catalog' is renamed, users can select the customized catalog and have exposed items routed to it. Please update the catalog name value in the properties of

"x_moda_morpheus_ca.service_catalog_name" in the Morpheus Catalog under Applications.

<pre>x_moda_morpheus_ca.service_catalog_name</pre>				🔗 사 🗄 👓 Update Delete 🛧 🗸
* Suffix	service_catalog_name		Application Morpheus Catalog	0
Name	x_moda_morpheus_ca.service_catalog_name			
Description				
Choices				
Type	string			~
Value	Service Catalog			
Ignore cache				
Private				
Read roles	/			
Write roles				
Update Delete				
Edit New Search Order V Sea	rch			e
Property = x_moda_morpheus_ca.service_catalog_name				
		≡ Order ▲		

SUMMARY

We've discussed the integration between Morpheus and ServiceNow; we dove into the details of the four areas of integration, and how they are setup, configured and consumed. I hope you found this information helpful and take advantage of these capabilities.

Morpheus Data is the market leader in unified and persona-based multi-cloud management. The Morpheus software platform gives enterprise organizations and service providers the ability to present a simple self-service catalog to users which can span dozens of on-premises and public clouds. As part of delivering on the promise of open and agnostic self-service, the Morpheus platform provides cost optimization, complete role-based access controls, and continuous automation for DevOps teams modernizing applications comprised of bare metal, VMs, containers, and public cloud PaaS services. With more built-in integrations and native functionality than any other platform, customers can standardize workflows, reduce tool sprawl, and unify existing teams and technologies.

To get started with Morpheus today, please visit <u>www.morpheusdata.com</u> Request a demo of Morpheus at <u>www.morpheusdata.com/demo/</u>