

Attacking & Defending ServiceNow

A Hands-on Lab for Red & Blue Teams

S A T O R
A R E P O
T E N E T
O P E R A
R O T A S



whoamwe



whoami

- US Army Veteran - Signal Corps
- Founder and Principal Hacker at Rotas Security – rotassecurity.com
- Former Practice Director for Large Consultancy's Attack & Pen team
- Also spent time as a senior operator for a fortune 500's Red Team

REFERENCED WORK

We Stand on the Shoulders of Giants



REFERENCES



- MDSec
 - <https://www.mdsec.co.uk/2025/03/red-teaming-with-servicenow/>
- The Streets
 - Did this live for first time in 2021, (felt cool).



LUDUS
C Y B E R R A N G E S

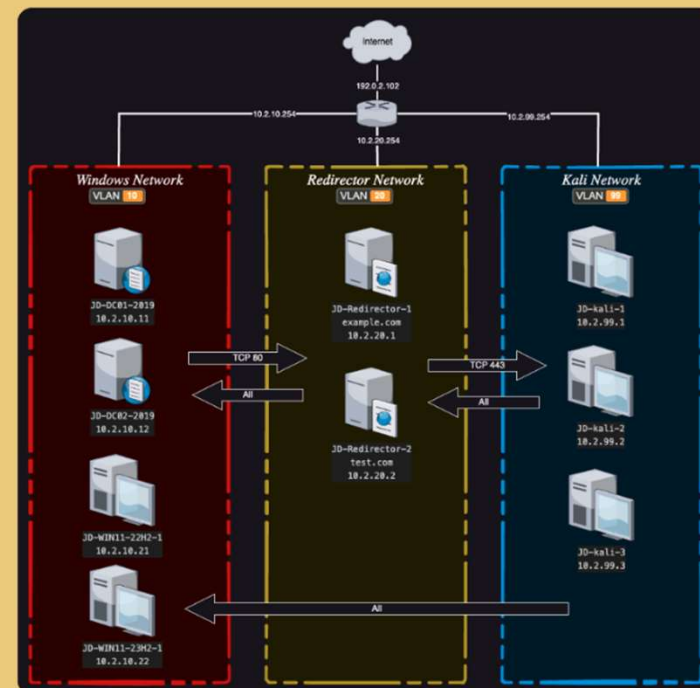
YAML

```
ludus:
- vm_name: ad-dc-win2019-server-x64
  hostname: JD-DC01-2019
  template: win2019-server-x64-template
  vlan: 10
  ip_last_octet: 11
  ram_gb: 8
  cpus: 4
  windows:
    sysprep: true
    domain:
      fqdn: ludus.domain
      role: primary-dc
- vm_name: ad-win11-22h2-enterprise-x64-1
  hostname: JD-WIN11-22H2-1
  template: win11-22h2-x64-enterprise
  vlan: 10
  ip_last_octet: 21
  ram_gb: 8
  cpus: 4
  windows:
    install_additional_tools: true
    office_version: 2019
    office_arch: 64bit
  domain:
    fqdn: ludus.domain
    role: member
```

Complex,
arbitrary
networks



deployed
with one
command!



	qemu	100 (kali-x64-desktop-template)
	qemu	101 (win11-22h2-x64-enterprise-template)
	qemu	102 (win2022-server-x64-template)
	qemu	103 (rocky-8-x64-server-template)
	qemu	104 (ubuntu-20.04-x64-server-template)
	qemu	105 (ubuntu-22.04-x64-server-template)
	qemu	106 (win10-21h2-x64-enterprise-template)
	qemu	107 (win11-23h2-x64-enterprise-template)
	qemu	108 (win2012r2-server-x64-template)
	qemu	109 (win2016-server-x64-template)
	qemu	110 (win2019-server-x64-template)
	qemu	111 (debian-11-x64-server-template)
	qemu	112 (debian-12-x64-server-template)
	qemu	113 (debian-10-x64-server-template)
	qemu	114 (rocky-9-x64-server-template)
	sdp	localnetwork (ludus)

```

> ludus range list
+-----+-----+-----+-----+-----+-----+
| USER ID | RANGE NUMBER | LAST DEPLOYMENT | NUMBER OF VMS | DEPLOYMENT STATUS | TESTING ENABLED |
+-----+-----+-----+-----+-----+-----+
| JD       | 3            | 2024-02-02 16:09 | 4             | SUCCESS           | FALSE           |
+-----+-----+-----+-----+-----+-----+

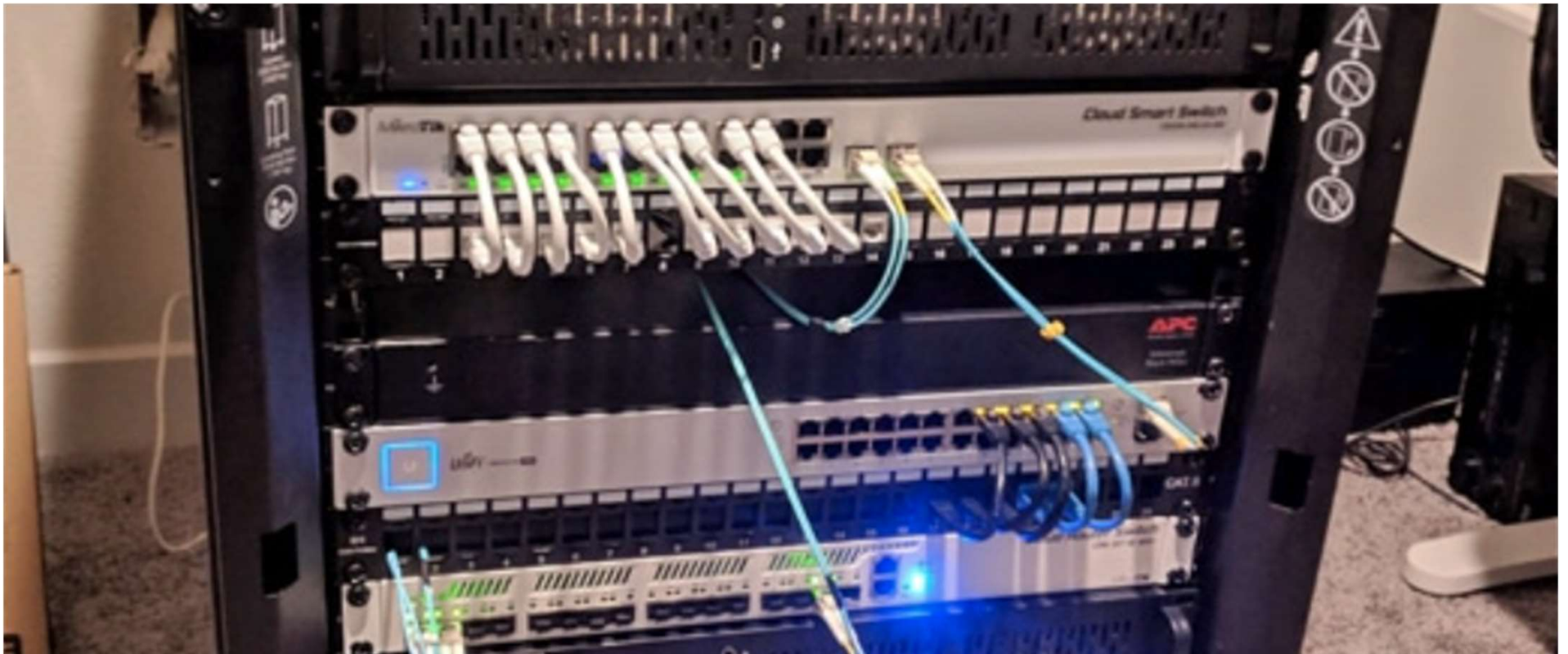
+-----+-----+-----+-----+
| PROXMOX ID | VM NAME | POWER | IP |
+-----+-----+-----+-----+
| 102        | JD-router-debian11-x64 | On  | 10.3.10.254 |
| 107        | JD-ad-dc-win2022-server-x64 | On  | 10.3.10.11 |
| 108        | JD-ad-win11-22h2-enterprise-x64-1 | On  | 10.3.10.21 |
| 110        | JD-kali | On  | 10.3.99.1 |
+-----+-----+-----+-----+

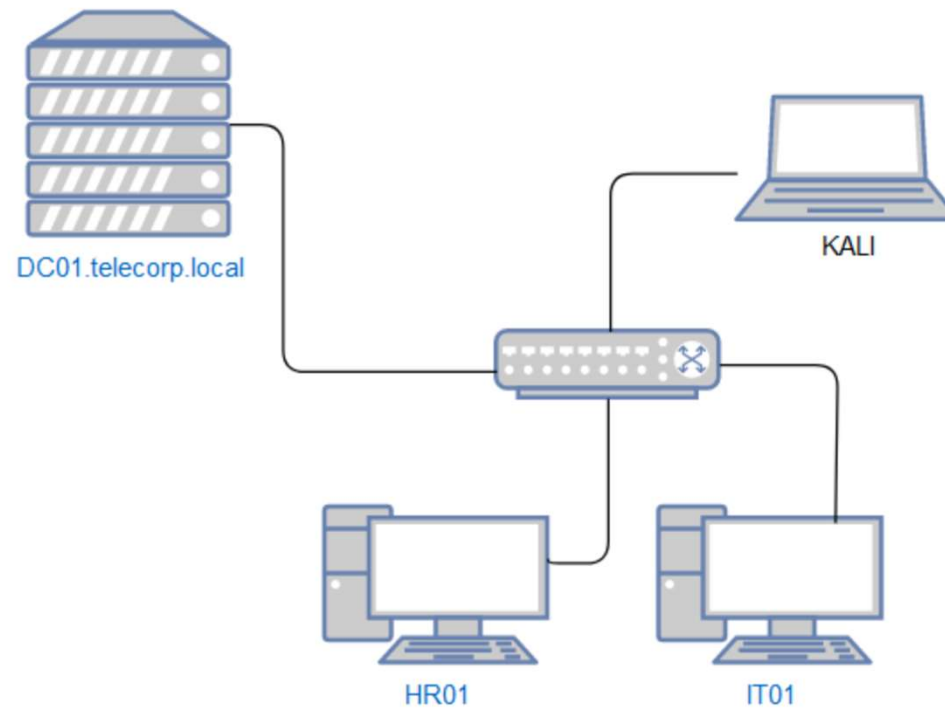
> ludus testing start
[INFO] testing started
> ludus testing allow -d example.com
[INFO] Allowed: example.com
[INFO] Allowed: crl3.digicert.com
[INFO] Allowed: crl4.digicert.com
[INFO] Allowed: ocsp.digicert.com
> ludus testing status
+-----+-----+-----+
| TESTING ENABLED | ALLOWED IPS | ALLOWED DOMAINS |
+-----+-----+-----+
| TRUE           | No IPs are allowed | example.com (93.184.216.34) |
|                |                | crl3.digicert.com (192.229.211.108) |
|                |                | crl4.digicert.com (192.229.211.108) |
|                |                | ocsp.digicert.com (192.229.211.108) |
+-----+-----+-----+

> ludus testing stop
[INFO] testing stopped
> ludus testing status
+-----+-----+-----+
| TESTING ENABLED | ALLOWED IPS | ALLOWED DOMAINS |
+-----+-----+-----+
| FALSE          | No IPs are allowed | No domains are allowed |
+-----+-----+-----+

```

qemu	111 (WinSvr2012-R2-Only)				-				
qemu	112 (Defektive-AD1)	0.0 %	88.9 %	0.9% of 4 ...	27 days 01:0...	0.1% of 40 ...	0.9 %	defektivenet	windows
qemu	113 (Defektive-Win10-1)	0.0 %	21.5 %	1.5% of 4 ...	27 days 01:0...	0.2% of 40 ...	0.2 %	defektivenet	windows
qemu	114 (Defektive-Win7-1)	0.0 %	80.3 %	2.6% of 4 ...	27 days 01:0...	0.3% of 40 ...	0.8 %	defektivenet	windows
qemu	115 (Defektive-Firewall)	0.0 %	90.2 %	4.4% of 2 ...	27 days 01:0...	0.2% of 40 ...	1.0 %	defektivenet	
qemu	116 (Defektive-AD2)	0.0 %	19.7 %	1.6% of 4 ...	27 days 01:0...	0.2% of 40 ...	0.2 %	defektivenet	windows
qemu	117 (Defektive-Kali-1)	0.0 %	14.6 %	0.7% of 4 ...	27 days 01:0...	0.1% of 40 ...	0.2 %	defektivenet	
qemu	118 (Defektive-Server-2019-1)	0.0 %	12.3 %	1.4% of 4 ...	27 days 01:0...	0.1% of 40 ...	0.1 %	defektivenet	windows
qemu	119 (Defektive-Debian12-1)	0.0 %	66.2 %	0.7% of 4 ...	27 days 01:0...	0.1% of 40 ...	0.2 %	defektivenet	linux
qemu	120 (Defektive-Debian12-2)	0.0 %	65.7 %	0.7% of 4 ...	27 days 01:0...	0.1% of 40 ...	0.2 %	defektivenet	linux
qemu	121 (Defektive-Server-2019-2)	0.0 %	12.2 %	1.4% of 4 ...	27 days 01:0...	0.1% of 40 ...	0.1 %	defektivenet	windows
qemu	122 (Defektive-Server-2025)				-				
qemu	123 (DC01-RVASec)	0.0 %	28.4 %	1.3% of 4 ...	11 days 01:1...	0.1% of 40 ...	0.3 %		
qemu	124 (Win7-RVASec)				-				
storage	BK0 (pve1)	100.0 %			-				







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Tunneled Mesh Reverse Proxy Server with Access Control

Your own self-hosted zero trust tunnel.

[Website](#) | [Install Guide](#) | [Contact Us](#)

home-lab > settings > resources

Documentationjoe@example.comJ

Sites

Resources

Access Control

Users

Roles

Shareable Links

API Keys

Settings

Server Admin

Organization

Home Lab

Open Source

v1.3.0

Manage Resources

Create secure proxies to your private applications

Q Search resources...

+ Add Resource

	Name ↑↓	Site ↑↓	Protocol	Access	Authentication ↑↓	Enabled	
...	Immich	Home Lab ↗	TCP	https://immich.example.com	Protected	☒	Edit →
...	Bitwarden	Home Lab ↗	TCP	https://bitwarden.example.com	Protected	☒	Edit →
...	Authentik	Office ↗	TCP	https://authentik.example.com	Not Protected	☒	Edit →
...	Postgres	Second Office ↗	TCP	5432	-	☐	Edit →
...	Battery Manager	Edge 01 ↗	TCP	https://battery.example.com	Protected	☒	Edit →

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PRACTICAL EXAMPLE – ServiceNow



servicenow

Product documentation

Home Products ▾ Release notes and upgrades ▾ PDF library Product accessibility

Search documents

Base version

ne ▾

y Platform capabilities ▾

Advanced Work Assignment >

orkspace >

oud Call Center >

onfiguration Management Database >

onnect >

Content Management System >

onversational Interfaces >

purposes only, and will not be updated.

The Management, Instrumentation, and Discovery (MID) Server is a Java application that runs as a Windows service or UNIX daemon on a server in your local network. The ServiceNow® MID Server enables communication and the movement of data between a ServiceNow instance and external applications, data sources, and services.

The MID Server initiates all communications with the ServiceNow® instance. This communication is recorded as records in the [ECC Queue](#), which acts as the communication log between the instance and the MID Server. The MID Server picks up any work it has to do from the ECC Queue and returns the results of that work to the queue.

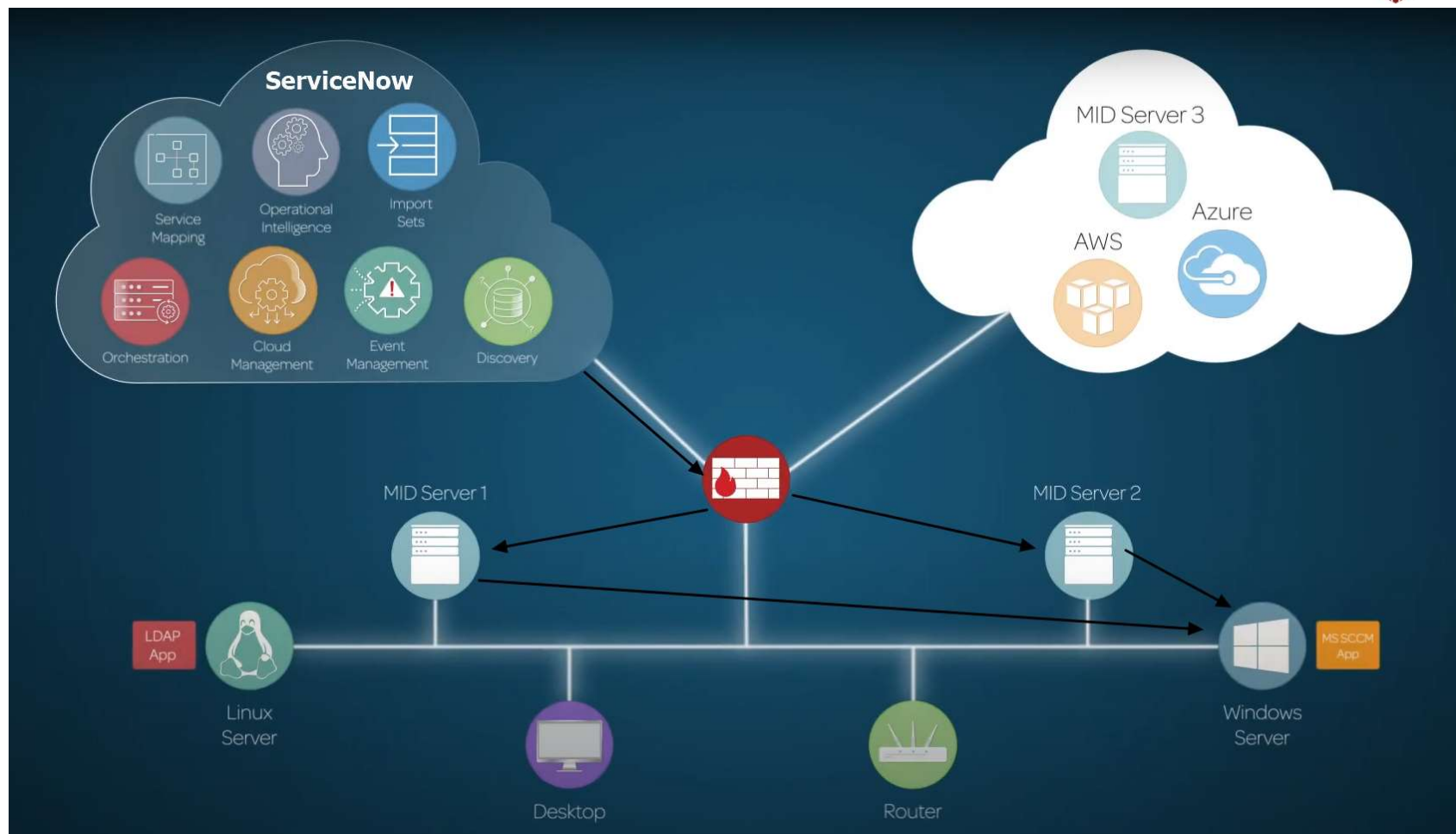
This video gives you an overview of the MID Server:



MID Server | Overview



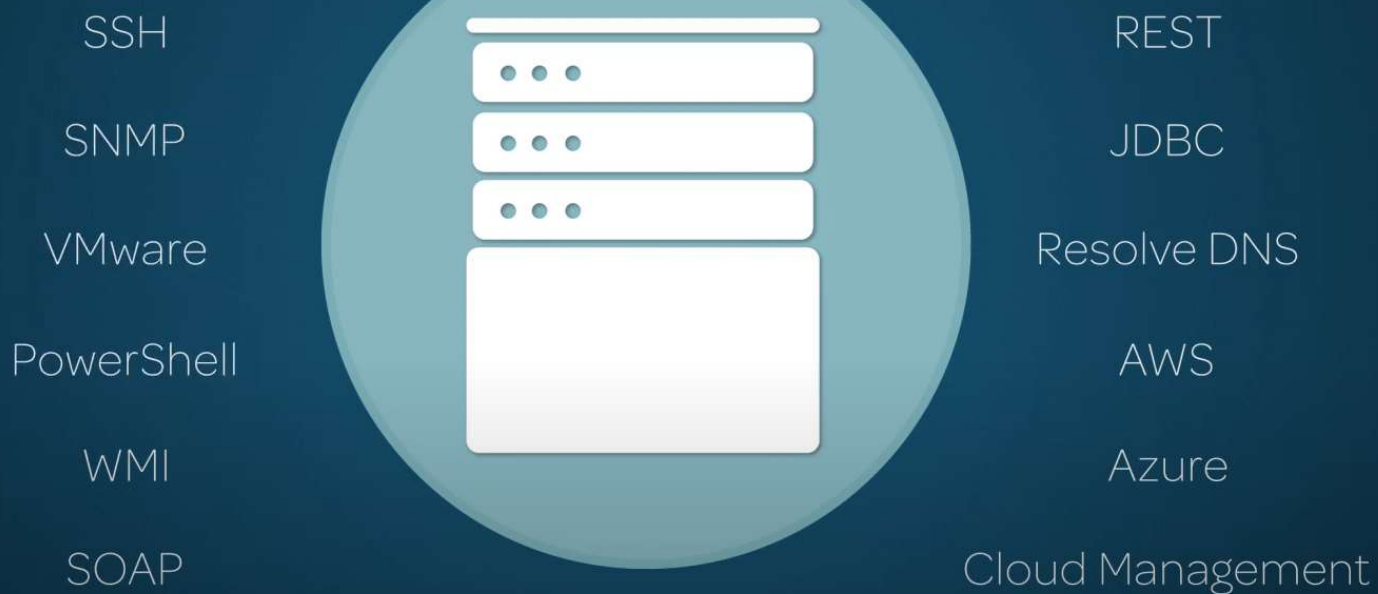
PRACTICAL EXAMPLE – ServiceNow



PRACTICAL EXAMPLE – ServiceNow



MID Server Capabilities



PRACTICAL EXAMPLE – ServiceNow



- 1. Create a PowerShell script that contained the PowerShell to be run. (POST /api/now/table/ecc_agent_script_file)
- 2. Create an ECC Queue task with 'topic' set to 'Powershell', 'agent' set to the name of the MID Server, 'Source' set to '127.0.0.1', and 'payload' referencing the previously created script file. (POST /api/now/table/ecc_queue)
- 3. Retrieve the results in the corresponding ECC input queue task. (GET /api/now/table/ecc_queue)
- 4. Delete the 2 ECC Queue tasks. (DELETE /api/now/table/ecc_queue/<ID>)
- 5. Delete the PowerShell script. (DELETE /api/now/table/ecc_agent_script_file/<ID>)

Build powerful apps. Solve real problems.

Start coding, testing, and deploying on the ServiceNow Platform
- fast. Build solutions that scale, automate workflows, integrate
across systems, and make work simpler for everyone.
Get started with a free developer account.

Sign up and Start Building

A YouTube video player interface. The video content is a promotional graphic for CreatorCon 2023. The background is a dark green gradient. At the top left is the ServiceNow logo. To its right is the text "Join Us at CreatorCon- Don't Miss Out!". At the top right are two icons: a clock for "Watch later" and a share icon for "Share". The main text in the center reads "BUILD. LEARN. CONNECT. IT'S ALL HAPPENING AT creatorcon" in white and green, with a green starburst icon to the right of "creatorcon". A red YouTube play button is overlaid on the text. At the bottom left, a black bar contains the text "Watch on" followed by the YouTube logo. At the bottom center, a blue pill-shaped button contains the text "HIT PLAY & FEEL THE ENERGY".

Yokohama is Here



We're currently experiencing issues with Personal Developer Instances (PDIs). Our team is actively working on a resolution. We appreciate your patience and apologize for any inconvenience.

DTAS
SECURITY

Developer

GETTING STARTED

Hello, Demo! Help us tune your experience.

1

2

Do you code?



Yes

I need a developer oriented IDE.



No

I need a guided experience.

Next



We're currently experiencing issues with Personal Developer Instances (PDIs). Our team is actively working on a resolution. We appreciate your patience and apologize for any inconvenience.

er

Learn ▾

Reference ▾

Guides ▾

Connect ▾



Request Instance 

DS ▾

Hello, Demo

Welcome to ServiceNow!

Build apps in minutes using ServiceNow's App Engine Studio with no-code/low code capabilities.

Start Building →



Request an Instance

Request an Instance

Choose your release

Latest Release



NO INSTANCES AVAILABLE

Yokohama

[Release Notes](#) ↗



NO INSTANCES AVAILABLE

Xanadu

[Release Notes](#) ↗



NO INSTANCES AVAILABLE

Washington DC

[Release Notes](#) ↗

Cancel

Request

dev307697.service-now.com/now/appenginestudio/template

ServiceNow App Engine Studio

Home My Apps Templates Resources

CREATE APP

Let's get started on your new app.

Add a name and description that define the purpose of your app.
You can also add a thumbnail image.

Name * ⓘ
rvasec01

Description ⓘ
demo app to do demo things


Browse or drag
to upload

BMP, GIF, ICO, JPEG,
JPG, PNG, SVG

Cancel Continue

dev307697.service-now.com/now/appenginestudio/template

servicenow App Engine Studio

Home My Apps Templates Resources

← ×

CREATE APP

Let's add roles to your new app.

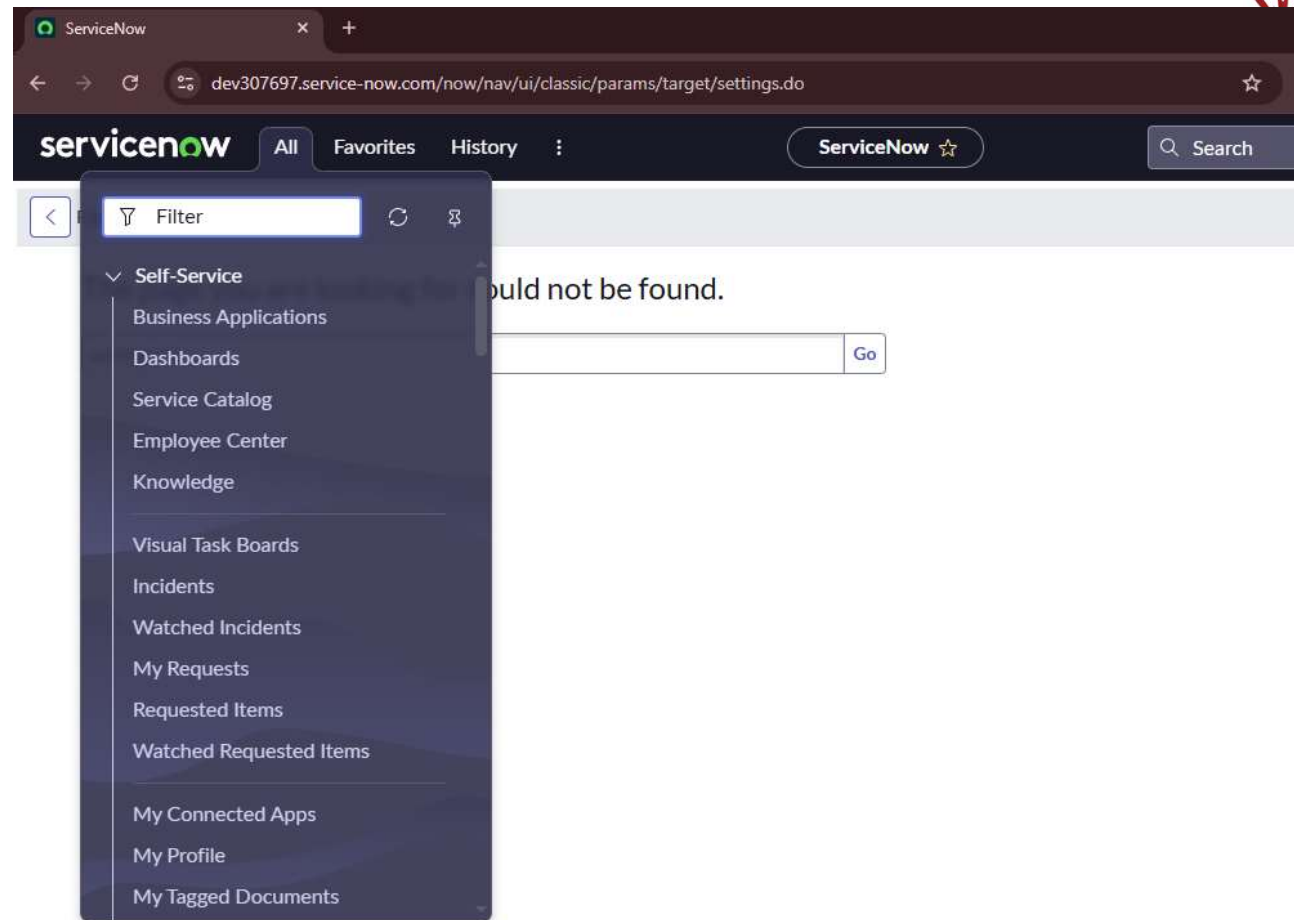
Default roles have already been added based on popular roles for apps. You can add or remove roles, later.

⊕ Add a role

Role name * ⓘ	Description ⓘ	🗑
admin	Default admin role	
Role name * ⓘ	Description ⓘ	🗑
user	Default user role	

Cancel Continue





Endpoint

/sys_db_object_list.do

/sys_dictionary_list.do

/table.do?SCHEMA=true&name=...

/<table_name>_list.do

Description

Lists all tables (enumerate what data exists)

Lists all fields in all tables (discover sensitive fields)

Schema browser for any table

Direct browse to records in table (e.g., /incident_list.do, /sys_user_list.do)

Table Name

sys_user

sys_user_role

sys_properties

ecc_queue

sys_script

sys_email

sys_attachment

cmdb_ci

sc_req_item / sc_request

What it might contain

Username, roles, email addresses

Role mappings (who is admin?)

System config, passwords, URLs, debug toggles

MID server task queue (can leak IPs, creds, scripts)

Business rules, might contain hardcoded logic or keys

Email logs; exfil or alert suppression insight

Attached files; might include creds, exports

Core CMDB; see asset inventory for lateral ideas

Service Catalog history (can reveal access requests, PII)

- https://<your-instance>.service-now.com/textsearch.do?sysparm_search=<your+search+term>
- https://<your-instance>.service-now.com/global_search.do?sysparm_search=incident+printer
- [https://dev307697.service-now.com/\\$sn_global_search_results.do?sysparm_search=c3Zj*](https://dev307697.service-now.com/$sn_global_search_results.do?sysparm_search=c3Zj*)

☰ My Instance

INSTANCE STATUS

🟢 Online

RELEASE

Yokohama

USER ROLE

App Engine Studio Creator

APP ENGINE STUDIO

🟢 Installed

CREATOR STUDIO

🟢 Installed

SERVICENOW STUDIO

🟢 Installed

Start Building ↗

INSTANCE ACTION

- 📁 Activate Plugin
- ✉ Manage Email Properties
- 📄 Release Instance
- ⌂ Change User Role
- 🔄 Remove Demo Data
- 🧹 Reset and Wipe Instance
- 🔒 Manage instance password
- 🔄 Refresh Instance
- 📦 Upgrade Instance

ACTIVITY

Instances with no activity for over 10 days will be claimed back in to the pool.

👤 My Account



Nicholas Popovich

npopovich@rotassec.com

View Profile →

Sign Out





Your instance actions

- Activate plugin
- Manage email properties
- Release instance
- Change User Role**
- Remove demo data
- Reset and wipe instance
- Manage instance password
- Upgrade instance
- View history
- Get instance help

Change User Role

☐ App Engine Studio Creator ☒ Admin

The admin role grants full access to your PDI including ServiceNow Studio, the application development environment for professional developers.

```

1  (function () {
2
3      var gameId = $sp.getParameter (' game_id ');
4      var gameGr = new
5      GlideRecord(' x_wsc_jeopardy_game ');
6
7      if ( gameGr . get (gameId)) {
8
9          var ju = new Util ( gameGr );
10
11          data . categories =ju . getGameCategories
12          var board =ju . getCardList ();
13          data . cardList =ju . transposeBoard (board
14          data . players =ju . getPlayers ();
15          data . game_id =gameId;
16
17          if ( gameGr . get (' state ') == ' pending

```

Cancel

Change User Role

midserver



- <https://www.servicenow.com/docs/bundle/washingtondc-servicenow-platform/page/product/mid-server/task/use-mid-server-guidedsetup.html>

Add experience



dev307697.service-now.com/now/appenginestudio/my-apps/fd67aef7932962109f863a6efaba10f8

servicenow App Engine Studio

Home My Apps Templates Resources

App Home rvasec01

ServiceNow Studio

The future of application development

Accelerate your application development and streamline your workflows with seamless cross-scope collaboration, all in a single solution.

[Try it out](#)

 rvasec01   [Submit](#)

All (2) Data **Experience** Logic and automation Security (2)

Search experience 

Experience [+Add](#)

Interfaces that users can interact with

 Add an interface

Add experience



servicenow App Engine Studio

Home

My Apps

Templates

Resources

?

CU

1

2

3

Basic infoDataSummary

×

ADD EXPERIENCE

Let's design your Workspace

This experience needs a name, description and URL.

Name * ⓘ

rvasec01

Description ⓘ

Enter a description

URL * ⓘ

rvasec01

/x/672414/rvasec01

Roles * ⓘ

x_672414_rvasec01.admin ×

x_672414_rvasec01.user ×

You can add roles by searching for them

Z

App Home
rvasec01

ServiceNow Studio

The future of application development

Accelerate your application development and streamline your workflows with seamless cross-scope collaboration, all in a single solution.

[Try it out](#)



rvasec01



Subn

All (4)

Data

Experience (2)

Logic and automation

Security (2)

Search data

Data

+Add

Tables that store and gather related data



Add a table or upload a spreadsheet or PDF

Washington DC Now Platform Capabilities

Filter ▾

Search documentation or ask a question ending with (?)



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on a single system

Use MID Server guided setup

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Server data >

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Resolving MID Server issues >

MID Server reference
information >

Remote tables >

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Use MID Server guided setup

Use MID Server guided setup



Release version: **Washington DC** ▾ | Updated Jan 31, 2024 | ⌚ 3 minutes to read [+ Summarize](#)

MID Server guided setup provides a sequence of tasks that help you install a MID Server with the proper user account and validate the MID Server. If you are setting up a MID Server for the first time, this is a good way to get one up and running in your environment quickly.

Before you begin

Role required: admin



Download MID Server



Select and download the MID Server for the appropriate operating system. If the download does not begin immediately, try the download at a later time as the system may be busy. Refer to the [installation instructions](#) for more details.
Note: Please refer release notes for MID Server Host OS compatibility matrix for current and upcoming releases.

Windows Downloads

Windows (MSI)	
64 bit	Download

Linux Downloads

For Linux Docker recipe, please follow the steps in [Build MID Server Docker Image for Linux](#).

Linux (RPM)	
64 bit	Download
64 bit signatures	Download

Linux Docker Recipe	
64 bit	Download

Linux (DEB)	
64 bit	Download
64 bit signatures	Download

☐ Download MID Server as ZIP archive

See contextual / embedded help on right for supported host OS versions

To set up the User's password, save the record and then click Set Password.

User ID

First name

Last name

Title

Department

Email

Language -- None --

Calendar integration Outlook

Time zone System (America/Los_Angeles)

Date format System (yyyy-MM-dd)

Business phone

Mobile phone

Photo [Click to add...](#)

Password needs reset ☐

Locked out ☐

Active ☒

Web service access only ☐

Internal Integration User ☐

User ID

First name

Last name

Title



Department



Password needs reset ☐

Locked out ☐

Active ☒

Web service access only ☐

Internal Integration User ☐

Email



Language

Calendar integration

Time zone

Date format

Business phone

Mobile phone

Photo [Click to add...](#)

Update Set Password Delete

Related Links

[View linked accounts](#)

[View Subscriptions](#)

[Reset a password](#)

Add Filter Run filter ?

-- choose field --

-- oper --

-- value --

Collection

mid

--None--

Roles List

null

mid_server



   [Update](#) [Set Password](#) [Delete](#)  

Related Links

[View linked accounts](#)[View Subscriptions](#)[Reset a password](#)

☰ ☹ ☕ Role ▾ Search

⚙️ — Actions on selected rows... Edit...

User = (empty)

☐		Role	State	Inherited	Inheritance Count
		soap_update	Active	true	1
		mid_server	Active	false	
		soap_script	Active	true	1
		soap_create	Active	true	1
		soap_delete	Active	true	1
		soap	Active	true	1
		soap_query	Active	true	1
		snc_platform_rest_api_access	Active	true	
		soap_ecc	Active	true	

1 to 9 of 9

User ID

First name

Last name

Title ⓘ

Department 🔍

Password needs reset ☐

Locked out ☐

Active ☒

Web service access only ☒

Internal Integration User ☐

Email ⓘ

Language

Calendar integration

Time zone

Date format

Business phone

Mobile phone

Photo [Click to add...](#)

[Update](#) [Set Password](#) [Delete](#)

Related Links



ServiceNow MID Server Setup

Configure MID Server Connection Settings

Authentication Type: ☒ Basic ☐ Mutual

ServiceNow Instance URL:

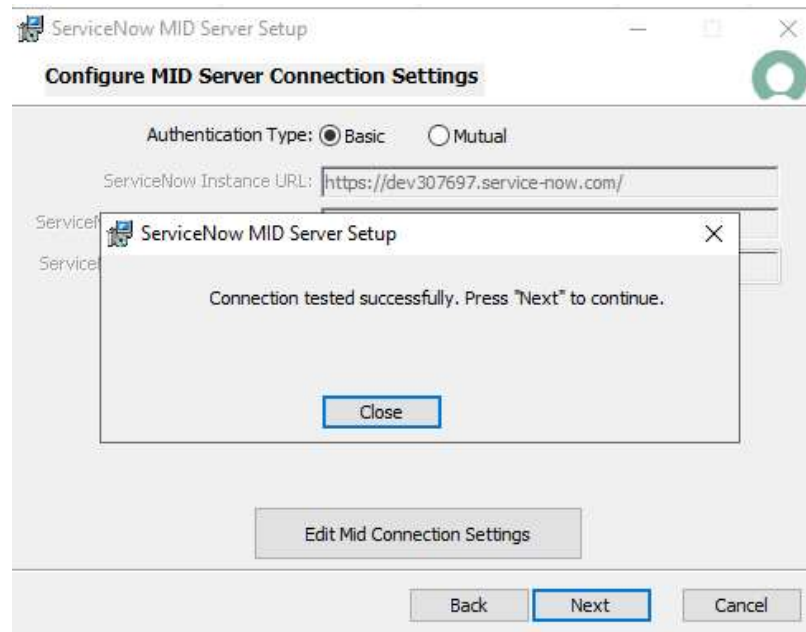
ServiceNow MID Server Username:

ServiceNow MID Server Password:

☐ Use proxy ☒ Certificate Revocation

[Edit Mid Connection Settings](#)

[Back](#) [Next](#) [Cancel](#)



loads

are View

This PC > Downloads

Name

mid-windows-install

ServiceNow MID Server Setup

Configure New Local User

Service Account Name:

Service Account Password:

Re-enter Password:



ServiceNow MID Server Setup

Review MID Server Configuration

Authentication Type: Basic

ServiceNow Instance URL: <https://dev307697.service-now.com/>

ServiceNow MID Server Username: mid_server

Use Proxy: false

MID Server Name: rvasecmid

Service Name: snc_mid_rvasecmid

Service Display Name: ServiceNow MID Server_rvasecmid

Service Account Name:

☒ Start MID Server after installation.



dev307697.service-now.com/now/nav/ui/classic/params/target/ecc_agent_capability

servicenow All Favorites History Workspaces MID Se

mid

FAVORITES

No Results

ALL RESULTS

- MID Server
 - Installation Instructions
 - Downloads
 - Dashboard
 - Servers
 - Server Issues

dev307697.service-now.com/now/nav/ui/classic/params/target/ecc_agent_list.do%3Fsyparm_userpref_module%3D8d1807e9c61122...

servicenow All Favorites History Workspaces MID Servers

Search

MID Servers

Name

Search

Actions on selected rows...

All

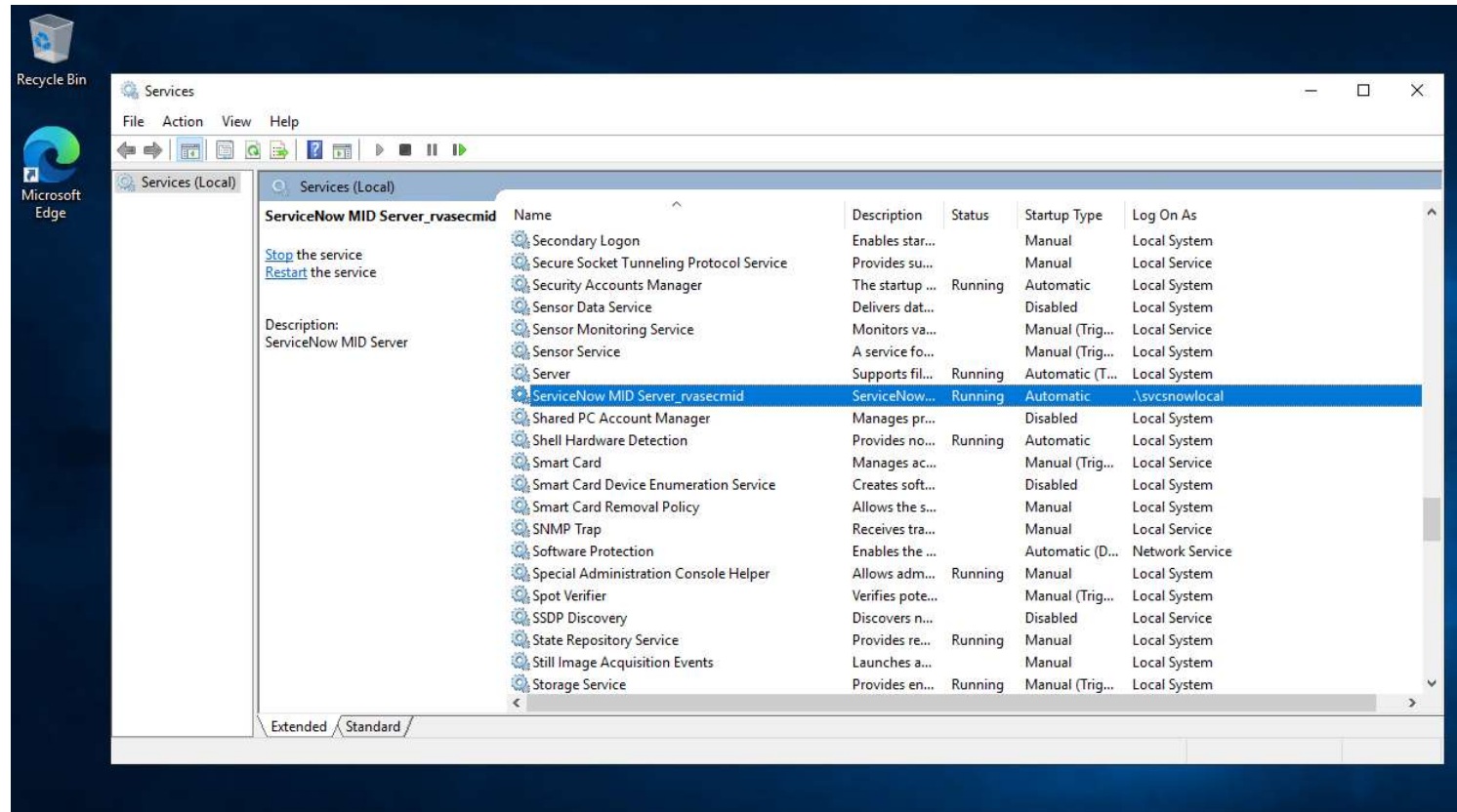
	Name	Host name	Status	Validated	Version	Last refreshed	Started	Stopped	Router	Logged in
	rvasecmid	win1-rvasec.d4q3pd1nvbeu1f4jshljq1q0cg.b...	Up	No	yokohama-12-18-2024_patch3-04-17-2025_0...	2025-05-26 12:05:27	2025-05-26 12:05:27	(empty)	10.0.0.1	mid_se

The MID Server facilitates communication between the ServiceNow platform and external applications, data sources, and services. Add MID Server configuration parameters and capabilities here. Read about [configuring the MID Server](#) or find assistance with [MID Server troubleshooting](#).

Name	rvasecmid
Status	Up
Validated	No
Validated At	
Validated By	
Version	yokohama-12-18-2024_patch3-04-17-20
Last refreshed	2025-05-26 12:05:27
Started	2025-05-26 12:05:27
Stopped	
Time zone	Etc/UTC
Idle Since	
Logged in user	mid_server
Container ID	
Profile ID	

Host name	win1-rvasec.d4q3pd1nvbeu1f4jshljq1q0c
IP address	10.0.0.5
Router	10.0.0.1
Network	10.0.0.0/24
Host OS	Windows
Windows domain	
Unresolved issues	0
Is using a custom certificate	☐
Is using mutual authentication	☐
Purpose	
Invalidated At	
Invalidated By	





dev307697.service-now.com/now/nav/ui/classic/params/target/ecc_agent_script_file.do%3Fsys_id%3Def89e4fc372001006b882d465a...

servicenow

AllFavoritesHistoryAdmin

MID Server Script File - PowerShell

Search

UpdateDelete

MID Server Script File PowerShell

UpdateDelete

MID Server Script Files (11)Versions

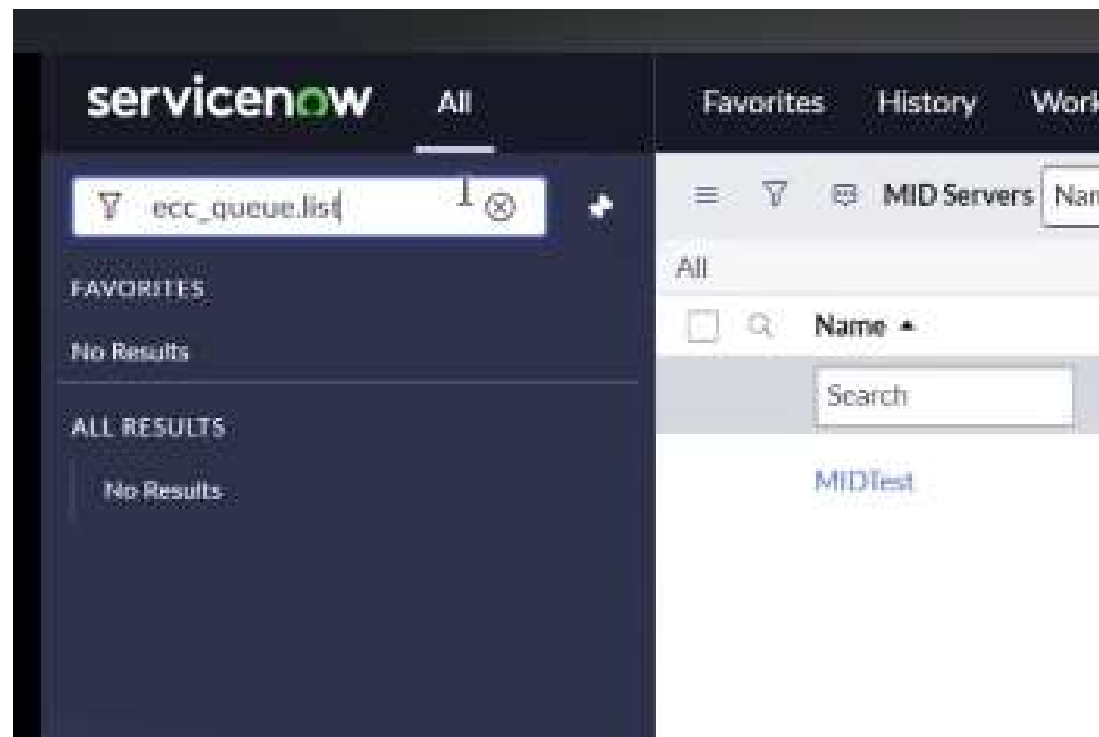
NameSearch

Actions on selected rows...New

Parent = PowerShell

☐	Name	Description	Active	Directory
☐	Credentials.psm1	Manages credential testing to see if the...	true	false
☐	DiagnosticsUtil.psm1	Provides diagnostic logging utilities	true	false
☐	IH	Folder containing script files for Integ...	true	true
☐	LaunchProc.psm1	Launches a process and fetches the outpu...	true	false
☐	NmapInstallation.ps1	Nmap Installation	true	false
☐	PSRemoteSession.psm1	Utility for creating remote PSSession	true	false
☐	PSScript.psm1	Main wrapper script for all PowerShell s...	true	false
☐	WinRMAPI		true	true
☐	WMIFetch.psm1	Collection of functions used to fetch da...	true	false
☐	WMIRunner.psm1	Contains the logic for running a WMIRunn...	true	false
☐	XMLUtil.psm1	Collection of methods for managing XML c...	true	false

1 to 11 of 11



- <https://www.servicenow.com/docs/bundle/washingtondc-servicenow-platform/page/product/mid-server/concept/ecc-queue-mid-server.html>

Yokohama Now Platform Capabilities

Filter

mid server validating

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[Home](#) > [Extend Now Platform capabilities](#) > [Manage instance data sources](#) > [MID Server](#) > [Configuring MID Server](#) > [Installing the MID Server](#) > **Validate the MID Server**

Validate the MID Server

Release version: **Yokohama** ▾ | Updated: Jan 29, 2025 | ⌚ 3 minutes to read **Summarize**

You must manually validate the MID Server after it is installed to enable it to execute automation tasks. You can invalidate a MID Server you suspect has been compromised to prevent it from accessing automation credentials in the instance or executing outbound ECC probes.

Before you begin

Role required: agent_admin, admin



Related Content

[Rekey a MID Server](#)

Queue Command

Agentmid.server.rvasecmid

TopicCommand

Nameipconfig

Source

Response to

Queueoutput

Stateprocessed

Processed2025-06-01 18:02:29

Created2025-06-01 17:58:22

Sequence1972e250b7f0000001

PayloadXML

Turn on ECMAScript 2021 (ES12) mode

1

UpdateDelete

Related Links

Related Links

Agent

Topic

Name

Source

Response to

Queue

State

Processed

Created

Sequence

Payload ☐ Turn on ECMAScript 2021 (ES12) mode ?



```
1 <parameters>
2   <parameter name="name" value="date /t & whoami & hostname & ipconfig /all"/>
3 </parameters>
```

Update

Delete

Queues Topic Search						
All						
☐	Created	Agent	Topic ▲	Name	Source	Queue
	2025-06-01 18:07:41	mid.server.rvasecmid	Command	testing		output
	2025-06-01 18:02:35	mid.server.rvasecmid	Command	ipconfig		input
	2025-06-01 18:07:44	mid.server.rvasecmid	Command	date /t & whoami & hostname & ipconfig /all		input
	2025-06-01 17:58:22	mid.server.rvasecmid	Command	ipconfig		output
	2025-06-01 18:02:29	mid.server.rvasecmid	config.file	MID Server Config	win1-rvasec.d4q3pd1nvbeu1f4jshljq1q0cg.b...	input
	2025-05-29 05:30:58	mid.server.rvasecmid	HeartbeatProbe			output
	2025-05-30 22:50:58	mid.server.rvasecmid	HeartbeatProbe			output
	2025-05-28 22:00:58	mid.server.*	HeartbeatProbe			output
	2025-05-31 02:40:58	mid.server.rvasecmid	HeartbeatProbe			output

Agent	mid.server.rvasecmid	Queue	input
Topic	Command	State	ready
Name	date /t & whoami & hostname & ipconfig /all	Processed	
Source		Created	2025-06-01 18:07:44
Response to	Command	Sequence	1972e2e1f350000001

Payload XML Turn on ECMAScript 2021 (ES12) mode

```
<?xml version="1.0" encoding="UTF-8"?><results probe_time="2178"><result command="date /t & whoami & hostname & ipconfig /all"><stdout>Mon 06/02/2025
win1-rvasec\svcsnowlocal
win1-rvasec

Windows IP Configuration

Host Name . . . . . : win1-rvasec
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : d4q3pd1nvbeu1f4jshlj1q0cg.bx.internal.cloudapp.net

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . : d4q3pd1nvbeu1f4jshlj1q0cg.bx.internal.cloudapp.net
Description . . . . . : Microsoft Hyper-V Network Adapter
```

QUESTIONS AND WRAP-UP

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Twitter: [@pipefish_](https://twitter.com/pipefish_)

