

Men&Mice Micetro Collection

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Table of Contents

1. Ansible setup for Men&Mice Micetro	1
1.1. Installation	1
1.1.1. Requirements	1
2. Ansible plugins	3
2.1. menandmice.ansible_micetro.freeip plugin	3
2.1.1. Options	3
2.1.2. Usage	3
2.2. menandmice.ansible_micetro.inventory plugin	5
2.2.1. Options	5
2.3. menandmice.ansible_micetro.ipinfo plugin	7
2.3.1. Options	7
2.3.2. Usage	7
3. Ansible modules	9
3.1. menandmice.ansible_micetro.user	9
3.1.1. Options	9
3.1.2. Examples	9
3.2. menandmice.ansible_micetro.group	10
3.2.1. Options	10
3.2.2. Examples	10
3.3. menandmice.ansible_micetro.role.	10
3.3.1. Options	10
3.3.2. Examples	11
3.4. menandmice.ansible_micetro.props	11
3.4.1. Options	11
3.4.2. Examples	11
3.5. menandmice.ansible_micetro.claimip.	12
3.5.1. Options	12
3.5.2. Examples	12
3.6. menandmice.ansible_micetro.ipprops.	12
3.6.1. Options	
3.6.2. Examples	13
3.7. menandmice.ansible_micetro.dhcp.	
3.7.1. Options	13
3.7.2. Examples	
3.8. menandmice.ansible_micetro.dhcpscope	13
3.8.1. Options	
3.8.2. Examples	
3.9. menandmice.ansible_micetro.dhcpscope_info	

	3.9.1. Options	14
	3.9.2. Examples	14
	3.10. menandmice.ansible_micetro.zone	15
	3.10.1. Options	15
	3.10.2. Examples	15
	3.11. menandmice.ansible_micetro.dnsrecord	16
	3.11.1. Options	16
	3.11.2. Examples	16
4.	Example playbooks	19
	4.1. play-user	19
	4.2. play-group.	21
	4.3. play-role	22
	4.4. play-props	23
	4.5. play-claimip	25
	4.6. play-dhcp	26
	4.7. play-zone	28
	4.8. play-dnsrecord	29
	4.9. play-freeip	31
	4.10. play-ipinfo	32
	4.11. play_it_all	32
5.	Credential matrix.	39
	5.1. Remarks	40

Chapter 1. Ansible setup for Men&Mice Micetro

With the Ansible setup for Men&Mice Micetro you can manage a Men&Mice installation through Ansible. The Ansible modules and plugins connect to the Men&Mice Micetro API and perform all needed actions.

The modules and plugins need to be installed on the Ansible control node, often called the Ansible Master and Ansible needs to be configured so that the modules and plugins can be found by Ansible.

1.1. Installation

Installing the Ansible modules and plugins is a straight forward process, just install from the Ansible Galaxy.

ansible-galaxy collection install menandmice.ansible_micetro

1.1.1. Requirements

The Ansible integration modules and plugins do not need anything beyond a standard Ansible installation. The minimum Ansible version is 2.9 and up and the required Python version is 3.6+.

Men&Mice Micetro Collection Chapter 2. Ansible plugins

Chapter 2. Ansible plugins

2.1. menandmice.ansible_micetro.freeip plugin

This Men&Mice FreeIP lookup plugin finds one or more free IP addresses in a certain network, defined in Men&Mice Micetro.

2.1.1. Options

- claim: Claim the IP address(es) for the specified amount of time in seconds
- excludedhcp: exclude DHCP reserved ranges from result
- filter: Men&Mice Micetro filter statement. Filter validation is done by the Men&Mice Micetro, not in the plugin. More filter info on https://docs.menandmice.com/display/MM930/Quickfilter
- multi: Get a list of x number of free IP addresses from the requested zones.
- network: (required) Network zone(s) from which the first free IP address is to be found. This is either a single network or a list of networks
- ping: ping the address found before returning.
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.

2.1.2. Usage

When using the Men&Mice FreeIP plugin something needs to be taken into account. When running an Ansible lookup plugin, this lookup action takes place every time the variable is referenced. So it will not be possible to claim an IP address for further reference, this way. This has to do with the way Ansible works. A solution for this is to assign all collected IP addresses to an Ansible fact, but here you need to make sure the factname is not used over multiple hosts.

Example usage:

Listing 1. Claim IP addresses in one or more ranges

```
- name: Men&Mice FreeIP test play
 hosts: localhost
 connection: local
 become: false
 vars:
   mm_provider:
    mm_url: http://micetro.example.net
     mm_user: apiuser
     mm_password: apipassword
   network: examplenet
 tasks:
   - name: Set free IP addresses as a fact
     set_fact:
      freeips: "{{ query('menandmice.ansible_micetro.freeip',
                          mm_provider,
                           network,
```

Chapter 2. Ansible plugins Men&Mice Micetro Collection

```
multi=15,
                      claim=60,
                      startaddress='192.168.63.100',
                      excludedhcp=True,
                      ping=True)
            - name: Get the free IP address and show info
 debug:
   msq:
     - "Free IPs
                         : {{ freeips }}"
     - "Queried network : {{ network }}"
     - "Ansible version : {{ ansible_version.full }}"
     - "Python version : {{ ansible_facts['python_version'] }}"
     - "Python executable : {{ ansible_facts['python']['executable'] }}"
- name: Loop over IP addresses
 debug:
   msq:
     - "Next free IP : {{ item }}"
 loop: "{{ freeips }}"
```

```
# ansible-playbook mmtest.yml
ok: [localhost]
ok: [localhost]
ok: [localhost] => {
  "msg": [
    "Free IPs
              : ['192.168.63.203', '192.168.63.204']",
    "Queried network : nononet",
    "Ansible version : 2.9.7",
    "Python version : 3.6.8",
    "Python executable : /usr/libexec/platform-python"
  ]
}
ok: [localhost] => (item=192.168.63.203) => {
  "msq": [
    "Next free IP : 192.168.63.203"
}
ok: [localhost] \Rightarrow (item=192.168.63.204) \Rightarrow {
  "msg": [
    "Next free IP : 192.168.63.204"
  1
}
```

Page 4 © 2025 — Men&Mice Version 1.0.13 (2025-04-18)

Men&Mice Micetro Collection Chapter 2. Ansible plugins

2.2. menandmice.ansible_micetro.inventory plugin

This plugin generates the inventory from Men&Mice Micetro. It supports reading configuration from both a YAML configuration file and environment variables. If reading from the YAML file, the filename must end with micetro_inventory. (yml|yaml), the path in the command would be /path/to/micetro_inventory. (yml|yaml). If some arguments in the configuration file are missing, this plugin will try to fill in the missing arguments by reading from environment variables. If reading configurations from environment variables, the path in the command must be @menandmice.ansible_micetro.inventory.

Valid configuration filenames are:

- micetro
- micetro_inv
- micetro_inventory

2.2.1. Options

There are two sets of configuration options, the options for the inventory plugin to function correctly and for Ansible to know how to use the plugin.

Plugin configuration

The menandmice.ansible_micetro.inventory plugin is configured through a configuration file, named (e.g.) micetro_inv.yml and the options are:

- plugin: Name of the plugin (menandmice.ansible_micetro.inventory)
- host: Men&Mice Micetro to connect to (http://micetro.example.net)
- user: UserID to connect with (apiuser)
- password: The password to connect with (apipasswd)
- filters: Filter on custom properties, can be more than 1 and should be a list. If multiple filters are given, they act as an **and** function
- ranges: What IP ranges to examine (172.16.17.0/24) Multiple ranges can be given, they act as an **or** function

When both *ranges* and *filters* are supplied that will result in an **and** function.

Example:

```
filters:
- location: home
- owner: tonk
ranges:
- 192.168.4.0/24
```

Chapter 2. Ansible plugins Men&Mice Micetro Collection

```
- 172.16.17.0/24
```

Would result in an inventory for all host that have the location: home **and** owner: tonk custom properties set **and** are either a member of the 192.168.4.0/24 **or** 172.16.17.0/24 range.

An example of the micetro_inventory.yml file:

```
plugin: menandmice.ansible_micetro.inventory
mm_url: "http://micetro.example.net"
mm_user: apiuser
mm_password: apipasswd
filters:
    - location: London
ranges:
    - 172.16.17.0/24
```

Environment variables:

The menandmice.ansible_micetro.inventory plugin can also be configured through environment variables

```
export MM_HOST=YOUR_MM_HOST_ADDRESS
export MM_USER=YOUR_MM_USER
export MM_PASSWORD=YOUR_MM_PASSWORD
export MM_FILTERS=YOUR_MM_FILTERS
export MM_RANGES=YOUR_MM_RANGES
```

When reading configuration from the environment, the inventory path must always be @menandmice.ansible_micetro.inventory.

```
ansible-inventory -i @menandmice.ansible_micetro.inventory --list
```

Ansible configuration

Ansible needs to know about the menandmice.ansible_micetro.inventory plugin and also has some extra configuration options. First the menandmice.ansible_micetro.inventory plugin needs to be enabled, so Ansible can use it. This is done in the [inventory] section in the ansible.cfg file.

```
[inventory]
enable_plugins = menandmice.ansible_micetro.inventory, host_list, auto
cache = yes
cache_plugin = jsonfile
cache_prefix = menandmice.ansible_micetro.inv
cache_timeout = 3600
cache_connection = /tmp/menandmice.ansible_micetro.inventory_cache
```

Page 6 © 2025 — Men&Mice Version 1.0.13 (2025-04-18)

Men&Mice Micetro Collection Chapter 2. Ansible plugins

With the following meaning:

- · cache: Switch caching on and off
- cache_plugin: Which caching plugin to use

```
jsonfileyamlpickle
```

- cache_prefix: User defined prefix to use when creating the cache files
- cache_connection: Path in which the cache plugin will save the cache files
- cache_timeout: Timeout for the cache in seconds

Now the inventory plugin can be used with Ansible, like:

```
ansible-inventory -i /path/to/micetro_inventory.yml --list
```

Or set the micetro_inventory.yml as the Ansible inventory in the ansible.cfg file.

```
inventory = micetro_inventory.yml
```

2.3. menandmice.ansible_micetro.ipinfo plugin

This Men&Mice IPInfo lookup plugin finds a lot of info about a specified IP address, defined in Men&Mice Micetro.

2.3.1. Options

- ipaddress: (required) The IP address that is examined
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.

2.3.2. Usage

The menandmice.ansible_micetro.ipinfo plugin delivers a complete set of information about an IP address, as it is delivered by the Men&Mice Micetro API.

Example usage:

Listing 2. Get information on an IP address

```
- name: Get all info for this IP address
  debug:
    var: ipinfo
  vars:
    ipinfo: "{{ query('menandmice.ansible_micetro.ipinfo', mm_provider,
    '172.16.17.2') | to_nice_json }}"
```

With output like (output shortened):

Chapter 2. Ansible plugins

Men&Mice Micetro Collection

```
ok: [localhost] => {
    "ipinfo": {
        "addrRef": "IPAMRecords/11",
        "address": "172.16.17.2",
        "claimed": false,
        "customProperties": {
            "location": "At the attic"
        },
    }
}
```

Page 8 © 2025 — Men&Mice Version 1.0.13 (2025-04-18)

Men&Mice Micetro Collection Chapter 3. Ansible modules

Chapter 3. Ansible modules

3.1. menandmice.ansible_micetro.user

Manage user accounts and user properties on Men&Mice Micetro

3.1.1. Options

- authentication_type: Authentication type to use. e.g. Internal, AD. Required if state=present.
- descr: Description of the user.
- email: The users email address.
- groups: Make the user a member of these groups.
- name: (required) Name of the user to create, remove or modify.
- password: Users password (plaintext). Required if state=present.
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.
- roles: Make the user a member of these roles.
- state: Should the users account exist or not. (absent, present)

3.1.2. Examples

Listing 3. User example

```
- name: Add the user 'johnd' as an admin
 menandmice.ansible micetro.user:
   username: johnd
   password: password
   full_name: John Doe
   state: present
   authentication_type: internal
        - Administrators (built-in)
        - DNS Administrators (built-in)
        - DHCP Administrators (built-in)
        - IPAM Administrators (built-in)
        - User Administrators (built-in)
        - Approvers (built-in)
        - Requesters (built-in)
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
- name: Remove user 'johnd'
 menandmice.ansible_micetro.user:
   username: johnd
   state: absent
   mm_provider: "{{ mm_provider }}"
 delegate to: localhost
```

Chapter 3. Ansible modules Men&Mice Micetro Collection

3.2. menandmice.ansible_micetro.group

Manage groups on Men&Mice Micetro

3.2.1. Options

- descr: Description of the group.
- name: (required) Name of the group to create, remove or modify.
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.
- roles: List of roles to add to this group.
- state: Should the role exist or not. (absent, present)
- users: List of users to add to this group.

3.2.2. Examples

Listing 4. Group example

```
- name: Add the 'local' group
 menandmice.ansible_micetro.group:
   name: local
   desc: A local group
   state: present
   users:
    - johndoe
   roles:
     - IPAM Administrators (built-in)
 mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
- name: Remove the 'local' group
 menandmice.ansible_micetro.group:
   name: local
   state: absent
   mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
```

3.3. menandmice.ansible_micetro.role

Manage roles on Men&Mice Micetro

3.3.1. **Options**

- descr: Description of the role.
- groups: List of groups to add to this role
- name: (required) Name of the role to create, remove or modify.
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.
- state: Should the role exist or not. (absent, present)
- users: List of users to add to this role

Page 10 © 2025 — Men&Mice Version 1.0.13 (2025-04-18)

Men&Mice Micetro Collection Chapter 3. Ansible modules

3.3.2. Examples

Listing 5. Role example

```
- name: Add the 'local' role
  menandmice.ansible_micetro.role:
    name: local
    desc: A local role
    state: present
  mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
- name: Remove the 'local' role
  menandmice.ansible_micetro.role:
    name: local
    state: absent
    mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
```

3.4. menandmice.ansible_micetro.props

Manage custom properties in Men&Mice Micetro

3.4.1. Options

- cloudtags: Associated cloud tags.
- default value: Default value of the property.
- dest: (required) The section where to define the custom property.
- listitems: The items in the selection list.
- mandatory: Is the property mandatory.
- multiline: Is the property multiline.
- name: (required) Name of the property.
- proptype: Type of the property. These are not the types as described in the API, but the types as you can see them in the Men&Mice Management Console.
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.
- readonly: Is the property read only.
- state: The state of the properties or properties. (absent, present)
- system: Is the property system defined.
- updateexisting: Should objects be updated with the new values. Only valid when updating a property, otherwise ignored.

3.4.2. Examples

Listing 6. Custom properties example

```
- name: Set deinition for custom properties
menandmice.ansible_micetro.props:
   name: location
   state: present
   proptype: text
```

Chapter 3. Ansible modules Men&Mice Micetro Collection

```
dest: zone
  mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
```

3.5. menandmice.ansible_micetro.claimip

Claim IP addresses in DHCP in Men&Mice Micetro

3.5.1. **Options**

- customproperties: Custom properties for the IP address. These properties must already exist. See also menandmice.ansible_micetro.props.
- ipaddress: (required) The IP address(es) to work on.
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.
- state: The state of the claim. (absent, present)

3.5.2. Examples

Listing 7. Claim IP address example

```
- name: Claim IP address
menandmice.ansible_micetro.claimip:
    state: present
    ipaddress: 172.16.12.14
    mm_provider: "{{ mm_provider }}"
    delegate_to: localhost

- name: Release claim on IP addresses
menandmice.ansible_micetro.claimip:
    state: present
    ipaddress:
        - 172.16.12.14
        - 172.16.12.15
        - 172.16.12.16
    mm_provider: "{{ mm_provider }}"
    delegate_to: localhost
```

3.6. menandmice.ansible_micetro.ipprops

Set properties on an IP address in Men&Mice Micetro

3.6.1. Options

- deleteunspecified: Clear properties that are not explicitly set.
- ipaddress: (required) The IP address(es) to work on.
- properties: (required) Custom properties for the IP address. These properties must already be defined
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.
- state: Property present or not. (absent, present)

Men&Mice Micetro Collection Chapter 3. Ansible modules

3.6.2. Examples

Listing 8. IP address custom properties example

```
- name: Set properties on IP
  menandmice.ansible_micetro.ipprops:
    state: present
    ipaddress: 172.16.12.14
    properties:
        claimed: false
        location: London
        mm_provider: "{{ mm_provider }}"
    delegate_to: localhost
```

3.7. menandmice.ansible_micetro.dhcp

Manage DHCP reservations on Men&Mice Micetro

3.7.1. Options

- ddnshost: The dynamic DNS host to place the entry in.
- deleteunspecified: Clear properties that are not explicitly set.
- filename: Filename to place the entry in.
- ipaddress: (required) The IP address(es) to make a reservation on. When the IP address is changed a new reservation is made. It is not allowed to make reservations in DHCP blocks.
- macaddress: (required) MAC address for the IP address.
- name: (required) Name of the reservation
- next server: Next server as DHCP option (bootp).
- mm provider: (required) Definition of the Men&Mice Micetro API mm provider.
- servername: Server to place the entry in.
- state: The state of the reservation. (absent, present)

3.7.2. Examples

Listing 9. DHCP reservation example

```
- name: Add a reservation for an IP address
menandmice.ansible_micetro.dhcp:
    state: present
    name: myreservation
    ipaddress: 172.16.17.8
    macaddress: 44:55:66:77:88:99
    mm_provider: "{{ mm_provider }}"
    delegate_to: localhost
```

3.8. menandmice.ansible_micetro.dhcpscope

Manage DHCP Scope configuration on Men&Mice Micetro

Chapter 3. Ansible modules Men&Mice Micetro Collection

3.8.1. Options

- state: The state of the reservation. (absent, present)
- name: (required) Name of the DHCP scope
- description: Description of the DHCP scope
- enabled: Whether or not the DHCP scope is enabled or not
- range_ref: (required) Range reference for the DHCP scope
- dhcp_server_refs: (required) DHCP server references for the DHCP scope
- options: Define specific options for the DHCP scope
- save comment: Save comment left in Micetro for any changes
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.

3.8.2. Examples

Listing 10. DHCP scope configuration example

```
- name: Manage DHCP scope with options
menandmice.ansible_micetro.dhcpscope:
    state: present
    name: My DHCP Scope
    range_ref: Ranges/1
    dhcp_server_refs:
        - DHCPServers/1
    options:
        3:
            - 1.1.1.1
        51: 172800
        mm_provider: "{{ mm_provider }}"
    delegate_to: localhost
```

3.9. menandmice.ansible_micetro.dhcpscope_info

Gather DHCP Scope information on Men&Mice Micetro

3.9.1. Options

- name: Name of the DHCP scope
- limit: Number of results to limit search to
- format_options: Whether or not to format the DHCP scope options
- gather_options: Whether or not include the DHCP scope options
- search_method: The method to search for the DHCP scope
- sort by: What property to search for the scope by
- sort_order: Ascending or descending order
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.

3.9.2. Examples

Page 14 © 2025 — Men&Mice Version 1.0.13 (2025-04-18)

Men&Mice Micetro Collection Chapter 3. Ansible modules

Listing 11. DHCP scope configuration example

```
- name: Manage DHCP scope with options
menandmice.ansible_micetro.dhcpscope_info:
   name: My DHCP Scope
   limit: 10
   mm_provider: "{{ mm_provider }}"
```

3.10. menandmice.ansible_micetro.zone

Manage DNS zones in Men&Mice Micetro

3.10.1. Options

- adintegrated: True if the zone is Active Directory integrated.
- adpartition: The AD partition if the zone is Active Directory integrated.
- adreplicationtype: Type of the AD replication.
- authority: Name of the DNS server that contains the zone or the string [Active Directory] if the zone is integrated in the Active Directory.
- customproperties: Custom properties for the zone. These properties must already exist. See also menandmice.ansible_micetro.props.
- dynamic: Dynamic DNS zone.
- masters: The IP addresses of the master servers if the new zone is not a master zone.
- name: (required) Name of the zone.
- nameserver: Nameserver to define the zone on. Required if state=present.
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.
- servtype: Type of the master server.
- state: The state of the zone. (absent, present)

3.10.2. Examples

Listing 12. Zone example

```
- name: Create a new zone
 menandmice.ansible micetro.zone:
   state: present
   name: example.com
   nameserver: ns1.example.com
   authority: micetro.example.net
   customproperties:
     location: Reykjavik
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
- name: Release a zone
 menandmice.ansible micetro.zone:
   state: absent
   name: example.com
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
```

Chapter 3. Ansible modules Men&Mice Micetro Collection

3.11. menandmice.ansible_micetro.dnsrecord

Manage DNS records in Men&Mice Micetro

In DNS it is very common to have multiple entries with the same name, as the example below shows.

Listing 13. Multiple DNS entries for a single name

```
mail01.example.net. 7200 IN A 192.0.2.25
mail01.example.net. 7200 IN A 192.0.2.143
mail01.example.net. 7200 IN AAAA 2001:db8::25
mail01.example.net. 7200 IN AAAA 2001:db8::587
```



To enable multiple records with the same name in the Ansible modules, there is no possibility to change a record, the only way is to add the new record with the updated data and remove the old one after that.

3.11.1. Options

- aging: The aging timestamp of dynamic records in AD integrated zones. Hours since January 1, 1601, UTC. Providing a non-zero value creates a dynamic record.
- comment: Comment string for the record. Note that only records in static DNS zones can have a comment string
- data: (required) The data that is added to the DNS record. The record data is a space-separated list, when the resource type is one of: MX, SRV, NAPTR, CAA, CERT, HINFO or TLSA.
 Example: data: "100 10 U E2U+sip !^.*\$!sip:customer-service@example.com!." For MX and SRV the hostname should be the short name and not the FQDN.
- dnszone: (required) The DNS zone where the action should take place.
- enabled: True if the record is enabled. If the record is disabled the value is false
- name: (required) The name of the DNS record. Can either be partially or fully qualified.
- mm_provider: (required) Definition of the Men&Mice Micetro API mm_provider.
- rrtype: Resource Record Type for this DNS record. Default is A.
- state: The state of the properties. (absent, present)
- ttl: The Time-To-Live of the DNS record.

3.11.2. Examples

Listing 14. DNS record setting example

```
- name: Set DNS record in zone for a defined name
menandmice.ansible_micetro.dnsrecord:
    state: present
    name: beatles
    data: 172.16.17.2
    rrtype: A
    dnszone: example.net.
    mm_provider: "{{ mm_provider }}"
    delegate_to: localhost
```

Men&Mice Micetro Collection Chapter 3. Ansible modules

```
- name: Set PTR record in zone for a defined name
 menandmice.ansible_micetro.dnsrecord:
   state: present
   name: "2.17.16.172.in-addr.arpa."
   data: beatles.example.net.
   rrtype: PTR
   dnszone: "17.16.172.in-addr.arpa."
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
- name: Set MX record
 menandmice.ansible_micetro.dnsrecord:
   state: present
   name: beatles
   rrtype: MX
   dnszone: example.net.
   data: "10 ringo"
   ttl: 86400
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
```

Chapter 4. Example playbooks

To use Men&Mice Micetro Ansible Integration you need to create Ansible playbooks that utilize the functionality of Men&Mice Micetro.

Following are a couple of example playbooks for inspiration.

These playbooks have been tested extensively with different operating systems, versions of Ansible and Python. For a complete overview, have a look at the "Testmatrix" chapter.

Caveat: As the operating systems do not have all these combinations of Ansible and Python available, the tests where done in Python virtual environments.

All these playbooks are available in the examples directory.

4.1. play-user

Listing 15. Add, delete or change a user

```
# Add, delete and change users on Men&Mice Micetro example
# The file <ansible_topdir>/group_vars/all contains:
   mm_provider:
    mm_url: http://micetro.example.net
     mm_user: apiuser
     mm_password: apipasswd
- name: Men&Mice Micetro users test play
 hosts: localhost
 connection: local
 become: false
    - name: Get the free IP address and show info
     ansible.builtin.debug:
       msq:
         - "Ansible version : {{ ansible_version.full }}"
          - "Python version : {{ ansible_facts['python_version'] }}"
          - "Python executable : {{ ansible_facts['python']['executable'] }}"
    - name: Add the user 'johnd' as an admin
     menandmice.ansible_micetro.user:
       username: johnd
       password: password
       full_name: John Doe
       state: present
       authentication_type: internal
       roles:
          - Administrators (built-in)
          - DNS Administrators (built-in)
```

```
- DHCP Administrators (built-in)
      - IPAM Administrators (built-in)
      - User Administrators (built-in)
      - Approvers (built-in)
      - Requesters (built-in)
    mm_provider: "{{ mm_provider }}"
- name: Check idempotency
 menandmice.ansible_micetro.user:
   username: johnd
   password: password
   full_name: John Doe
   state: present
   authentication_type: internal
   roles:
      - Administrators (built-in)
      - DNS Administrators (built-in)
      - DHCP Administrators (built-in)
      - IPAM Administrators (built-in)
      - User Administrators (built-in)
      - Approvers (built-in)
      - Requesters (built-in)
   mm_provider: "{{ mm_provider }}"
- name: Change the groups
 menandmice.ansible_micetro.user:
   username: johnd
   password: password
   full_name: John Doe
   state: present
   authentication_type: internal
   roles:
      - Administrators (built-in)
      - User Administrators (built-in)
      - Approvers (built-in)
      - Requesters (built-in)
   mm_provider: "{{ mm_provider }}"
- name: Check idempotency again
 menandmice.ansible_micetro.user:
   username: johnd
   password: password
   full_name: John Doe
   state: present
   authentication_type: internal
   roles:
      - Administrators (built-in)
      - User Administrators (built-in)
      - Approvers (built-in)
      - Requesters (built-in)
   mm_provider: "{{ mm_provider }}"
- name: Remove the user again
 menandmice.ansible_micetro.user:
   username: johnd
   state: absent
```

Page 20 © 2025 — Men&Mice Version 1.0.13 (2025-04-18)

```
mm_provider: "{{ mm_provider }}"
```

4.2. play-group

Listing 16. Add, delete or change a group

```
# Add, delete and change groups on Men&Mice Micetro example
# The file <ansible_topdir>/group_vars/all contains:
   mm_provider:
     mm_url: http://micetro.example.net
      mm_user: apiuser
     mm_password: apipasswd
- name: Men&Mice Micetro users test play
 hosts: localhost
 connection: local
 become: false
 tasks:
   - name: Get the free IP address and show info
     ansible.builtin.debug:
       msg:
         - "Ansible version : {{ ansible_version.full }}"
                            : {{ ansible_facts['python_version'] }}"
         - "Python version
          - "Python executable : {{ ansible_facts['python']['executable'] }}"
   - name: Add the 'local' group
     menandmice.ansible_micetro.group:
       name: local
       desc: A local rgroup
       state: present
       users:
         - johndoe
         - angelina
       mm_provider: "{{ mm_provider }}"
    - name: Check idempotency
     menandmice.ansible_micetro.group:
       name: local
       desc: A local group
       state: present
       users:
         - johndoe
         - angelina
       mm_provider: "{{ mm_provider }}"
    - name: Add nonexisting user to group
     menandmice.ansible_micetro.group:
       name: local
       desc: A local group
```

4.3. play-role

Listing 17. Add, delete or change a role

```
#
# Add, delete and change roles on Men&Mice Micetro example
# The file <ansible_topdir>/group_vars/all contains:
    mm_provider:
#
      mm_url: http://micetro.example.net
       mm_user: apiuser
      mm_password: apipasswd
- name: Men&Mice Micetro users test play
  hosts: localhost
  connection: local
  become: false
  tasks:
    - name: Get the free IP address and show info
      ansible.builtin.debug:
        msg:
          - "Ansible version : {{ ansible_version.full }}"
- "Python version : {{ ansible_facts['python_version'] }}"
          - "Python executable : {{ ansible_facts['python']['executable'] }}"
    - name: Add the 'local' role
      menandmice.ansible_micetro.role:
        name: local
        desc: A local role
        state: present
        users:
          - johndoe
          - angelina
        mm_provider: "{{ mm_provider }}"
    - name: Check idempotency
      menandmice.ansible_micetro.role:
        name: local
        desc: A local role
```

```
state: present
   users:
     - johndoe
      - angelina
   mm_provider: "{{ mm_provider }}"
- name: Add nonexisting user to role
 menandmice.ansible_micetro.role:
   name: local
   desc: A local role
   state: present
   users:
     - neverheardof
   mm_provider: "{{ mm_provider }}"
  ignore_errors: true # noqa: ignore-errors
- name: Remove the 'local' role
 menandmice.ansible micetro.role:
   name: local
   state: absent
   mm_provider: "{{ mm_provider }}"
```

4.4. play-props

Listing 18. Add, delete or change custom properties on assets

```
# Set, delete and change custom properties on Men&Mice Micetro example
# The file <ansible_topdir>/group_vars/all contains:
#
   mm_provider:
     mm_url: http://micetro.example.net
     mm_user: apiuser
     mm_password: apipasswd
- name: Men&Mice Micetro Custom Properties test play
 hosts: localhost
 connection: local
 become: false
 tasks:
   - name: Ansible information
     ansible.builtin.debug:
         - "Ansible version : {{ ansible_version.full }}"
         - "Python version : {{ ansible_facts['python_version'] }}"
         - "Python executable : {{ ansible_facts['python']['executable'] }}"
    - name: Set text property
     menandmice.ansible_micetro.props:
       state: present
       name: MyProperty
```

```
proptype: text
    dest: dnsserver
    listitems:
      - John
      - Paul
      - Ringo
      - George
    mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
- name: Check idempotentie
  menandmice.ansible_micetro.props:
    state: present
    name: MyProperty
    proptype: text
    dest: dnsserver
    listitems:
      - John
      - Paul
      - Ringo
      - George
    mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
- name: Change type - not allowed
  menandmice.ansible_micetro.props:
    state: present
    name: MyProperty
    proptype: yesno
    dest: dnsserver
    listitems:
     - John
      - Paul
      - Ringo
      - George
    mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
- name: Change list around
  menandmice.ansible_micetro.props:
   state: present
    name: MyProperty
    proptype: text
    dest: dnsserver
    listitems:
      - George
      - John
      - Paul
      - Ringo
    mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
- name: Remove property
  menandmice.ansible_micetro.props:
   state: absent
    name: MyProperty
    proptype: text
```

```
dest: dnsserver
    mm_provider: "{{ mm_provider }}"
    delegate_to: localhost

- name: Remove property - again
    menandmice.ansible_micetro.props:
    state: absent
    name: MyProperty
    proptype: yesno
    dest: dnsserver
    mm_provider: "{{ mm_provider }}"
    delegate_to: localhost
```

4.5. play-claimip

Listing 19. Claim IP addresses in one or more ranges

```
# Claim and release an IP address on Men&Mice Micetro example
# The file <ansible_topdir>/group_vars/all contains:
   mm_provider:
#
     mm_url: http://micetro.example.net
     mm_user: apiuser
     mm_password: apipasswd
- name: Men&Mice Micetro ClaimIP test play
 hosts: localhost
 connection: local
 become: false
 tasks:
    - name: Ansible information
     ansible.builtin.debug:
       msq:
         - "Ansible version : {{ ansible_version.full }}"
         - "Python version : {{ ansible_facts['python_version'] }}"
          - "Python executable : {{ ansible_facts['python']['executable'] }}"
    - name: Claim IP address
     menandmice.ansible_micetro.claimip:
       state: present
       ipaddress: 172.16.12.14
       mm_provider: "{{ mm_provider }}"
    - name: Check idempotentie
     menandmice.ansible_micetro.claimip:
       state: present
       ipaddress: 172.16.12.14
       mm_provider: "{{ mm_provider }}"
```

```
- name: Unclaim IP address
menandmice.ansible_micetro.claimip:
state: present
ipaddress: 172.16.12.14
mm_provider: "{{ mm_provider }}"

# This task claims an IP address that cannot exit
# and returns a warning because of that
- name: Claim erroneous IP address
menandmice.ansible_micetro.claimip:
state: present
ipaddress: 456.978.12.14
mm_provider: "{{ mm_provider }}"
```

4.6. play-dhcp

Listing 20. Make and release DHCP reservations

```
#
# Make a DHCP reservation and release it on Men&Mice Micetro example
# The file <ansible_topdir>/group_vars/all contains:
#
#
   mm_provider:
#
     mm_url: http://micetro.example.net
      mm_user: apiuser
#
      mm_password: apipasswd
- name: Men&Mice Micetro DHCP test play
 hosts: localhost
 connection: local
 become: false
  tasks:
    - name: Ansible information
      ansible.builtin.debug:
       msq:
          - "Ansible version : {{ ansible_version.full }}"
          - "Python version : {{ ansible_facts['python_version'] }}"
          - "Python executable : {{ ansible_facts['python']['executable'] }}"
    - name: Add a reservation for an IP address
     menandmice.ansible_micetro.dhcp:
       state: present
       name: myreservation
       ipaddress: 172.16.17.8
       macaddress: 44:55:66:77:88:00
       mm_provider: "{{ mm_provider }}"
      delegate_to: localhost
    - name: check idempotentie
      menandmice.ansible_micetro.dhcp:
        state: present
```

```
name: myreservation
    ipaddress: 172.16.17.8
   macaddress: 44:55:66:77:88:00
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
# Changing the MAC address of a reservation is not allowed, as this
# would alter the reservation. To achieve this, release the reservation
# and reclaim it.
- name: change mac
 menandmice.ansible_micetro.dhcp:
    state: present
   name: myreservation
   ipaddress: 172.16.17.8
   macaddress: 44:55:66:77:88:99
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
- name: change ip
 menandmice.ansible_micetro.dhcp:
   state: present
   name: myreservation
   ipaddress: 172.16.17.9
   macaddress: 44:55:66:77:88:99
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
- name: change name
 menandmice.ansible_micetro.dhcp:
   state: present
   name: movemyreservation
   ipaddress: 172.16.17.9
   macaddress: 44:55:66:77:88:99
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
- name: delete reservation (wrong one)
 menandmice.ansible_micetro.dhcp:
   state: absent
   name: movemyreservation
   ipaddress: 172.16.17.9
   macaddress: 44:55:66:77:88:99
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
- name: delete reservation (correct one)
 menandmice.ansible_micetro.dhcp:
   state: absent
   name: myreservation
   ipaddress: 172.16.17.8
   macaddress: 44:55:66:77:88:99
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
- name: create reservation in invalid range
 menandmice.ansible_micetro.dhcp:
    state: present
```

```
name: reservationnonet
  ipaddress: 172.16.17.58
  macaddress: 44:55:66:77:88:99
  mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
```

4.7. play-zone

Listing 21. Add, delete or change a DNS zone

```
#
# The file <ansible_topdir>/group_vars/all contains:
#
   mm_provider:
     mm_url: http://micetro.example.net
#
     mm_user: apiuser
#
     mm_password: apipasswd
- name: Men&Mice Micetro zone test play
 hosts: localhost
 connection: local
 become: false
 tasks:
    - name: Ansible information
      ansible.builtin.debug:
         - "Ansible version : {{ ansible_version.full }}"
          - "Python version : {{ ansible_facts['python_version'] }}"
          - "Python executable : {{ ansible_facts['python']['executable'] }}"
    - name: Ensure the zone
      menandmice.ansible_micetro.zone:
       state: present
       name: example.com
       nameserver: mandm.example.com
        authority: mandm.example.net
       masters: mandm.example.net
       servtype: master
        customproperties:
         owner: Me, myself and I
         place: Netherlands
        mm_provider: "{{ mm_provider }}"
      delegate_to: localhost
    - name: Remove the zone
      menandmice.ansible_micetro.zone:
       state: absent
        name: example.com
        mm_provider: "{{ mm_provider }}"
      delegate_to: localhost
```

4.8. play-dnsrecord

Listing 22. Add and change a DNS record

```
# Set and change a DNS record on Men&Mice Micetro example
# The file <ansible_topdir>/group_vars/all contains:
   mm_provider:
     mm_url: http://micetro.example.net
     mm_user: apiuser
      mm_password: apipasswd
- name: Men&Mice Micetro DNSRecord test play
 hosts: localhost
  connection: local
 become: false
 tasks:
    - name: Ansible information
     ansible.builtin.debug:
       msg:
         - "Ansible version : {{ ansible_version.full }}"
          - "Python version : {{ ansible_facts['python_version'] }}"
          - "Python executable : {{ ansible_facts['python']['executable'] }}"
    - name: Set DNS record
     menandmice.ansible_micetro.dnsrecord:
       state: present
       name: beatles
       rrtype: A
       dnszone: testzone
       data: 192.168.10.12
       comment: From The API side
       ttl: 86400
       mm_provider: "{{ mm_provider }}"
     delegate_to: localhost
    - name: Check idempotentie
     menandmice.ansible_micetro.dnsrecord:
       state: present
       name: beatles
       rrtype: A
       dnszone: testzone
       data: 192.168.10.12
       comment: From The API side
       ttl: 86400
       mm_provider: "{{ mm_provider }}"
     delegate_to: localhost
    - name: Set DNS record with erroneous values
     menandmice.ansible_micetro.dnsrecord:
       state: present
```

```
name: beatles
    rrtype: AAAA
    dnszone: testzone
    data: 192.168.10.127
   comment: From The API side
   ttl: apple
   mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
  ignore_errors: true # noqa: ignore-errors
- name: Change record
 menandmice.ansible_micetro.dnsrecord:
    state: present
   name: beatles
   rrtype: A
   dnszone: testzone
   data: 192.168.10.14
    comment: From The API side
   mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
- name: Add records to non existing zone
 menandmice.ansible_micetro.dnsrecord:
   state: present
   name: beatles
   rrtype: A
   dnszone: notthetestzone
   data: 192.168.90.14
   comment: Welcome to the error
   mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
  ignore_errors: true # noqa: ignore-errors
- name: Use a very invalid IP address
 menandmice.ansible_micetro.dnsrecord:
   state: present
   name: beatles
   rrtype: A
   dnszone: testzone
   data: 192.168.390.14
   comment: Welcome to the error
   mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
  ignore_errors: true # noqa: ignore-errors
- name: Remove record
 menandmice.ansible_micetro.dnsrecord:
   state: absent
   name: beatles
   dnszone: notthetestzone
   data: 192.168.90.14
   mm_provider: "{{ mm_provider }}"
 delegate_to: localhost
- name: Remove record - again
 menandmice.ansible_micetro.dnsrecord:
    state: absent
```

Page 30 © 2025 — Men&Mice Version 1.0.13 (2025-04-18)

```
name: beatles
  dnszone: notthetestzone
  data: 192.168.90.14
  mm_provider: "{{ mm_provider }}"
  delegate_to: localhost
```

4.9. play-freeip

Listing 23. Find free IP addresses in a range or ranges

```
# Find a set of free IP addresses in a range on Men&Mice Micetro example
# The file <ansible_topdir>/group_vars/all contains:
#
   mm_provider:
     mm_url: http://micetro.example.net
     mm_user: apiuser
      mm_password: apipasswd
- name: Men&Mice Micetro FreeIP test play
 hosts: localhost
 connection: local
 become: false
 vars:
   network:
     - examplenet
 tasks:
    - name: Set free IP addresses as a fact
     ansible.builtin.set_fact:
       freeips: "{{ query('menandmice.ansible_micetro.freeip',
         mm_provider,
         network,
         multi=25,
         claim=60,
         excludedhcp=True,
         ping=True)
         } } "
    - name: Get the free IP address and show info
     ansible.builtin.debug:
       msq:
         - "Free IPs
                           : {{ freeips }}"
          - "Queried network(s) : {{ network }}"
         - "Ansible version : {{ ansible_version.full }}"
         - "Python version
                              : {{ ansible_facts['python_version'] }}"
          - "Python executable : {{ ansible_facts['python']['executable'] }}"
    - name: Loop over IP addresses
     ansible.builtin.debug:
       msg:
```

```
- "Next free IP : {{ item }}"
loop: "{{ freeips }}"
```

4.10. play-ipinfo

Listing 24. Collect a lot of info concerning an IP address

```
#
# Get all info for an IP address on Men&Mice Micetro example
# The file <ansible_topdir>/group_vars/all contains:
#
   mm_provider:
#
     mm_url: http://micetro.example.net
      mm_user: apiuser
#
      mm_password: apipasswd
- name: Men&Mice Micetro IP Info test play
 hosts: localhost
 connection: local
 become: false
 tasks:
    - name: Get get IP info
     ansible.builtin.set_fact:
       ipinfo: "{{ query('menandmice.ansible_micetro.ipinfo', mm_provider,
'172.16.17.2') | to_nice_json }}"
    - name: Show Ansible and Python information
      ansible.builtin.debug:
        msg:
          - "Ansible version : {{ ansible_version.full }}"
          - "Python version
                              : {{ ansible_facts['python_version'] }}"
          - "Python executable : {{ ansible_facts['python']['executable'] }}"
    - name: Show all infor for this IP address
      ansible.builtin.debug:
       var: ipinfo
    # This task tries to get the information for a non-existing IP address
    # which results in a fatal `Object not found for reference` error
    - name: Get get IP info for a non existing IP address
      ansible.builtin.set fact:
       ipinfo: "{{ query('menandmice.ansible_micetro.ipinfo', mm_provider,
'390.916.17.2') | to_nice_json }}"
      ignore_errors: true # noqa: ignore-errors
```

4.11. play_it_all

Listing 25. Example of a playbook that combines functionality

```
- name: Men&Mice Micetro test play
 hosts: localhost
  connection: local
 become: false
  vars:
   network: examplenet
  tasks:
    # Some extra information about Ansible and the used
    # Python version
    - name: Ansible information
     ansible.builtin.debug:
       msq:
          - "Ansible version : {{ ansible_version.full }}"
          - "Python version : {{ ansible_facts['python_version'] }}"
          - "Python executable : {{ ansible_facts['python']['executable'] }}"
    # The `ipaddr` filter needs the Python `netaddr` module, so make sure
    # this is installed
    # The `ipaddr` is used to determine the reverse IP address
    # For example:
      vars:
         ipa4: "172.16.17.2"
    #
         ipa6: "2001:785:beef:1:f2c4:8f9d:b554:e614"
       - "Forward IPv4 address : {{ ipa4 }}"
       - "Forward IPv4 address : {{ ipa4 }}"
        - "Reverse IPv4 address : {{ ipa4 | ipaddr('revdns') }}"
       - "Reverse IPv6 address : {{ ipa6 | ipaddr('revdns') }}"
       - "Reverse IPv4 zone : {{ (ipa4 | ipaddr('revdns')).split('.')[1:]
| join('.') }}"
       - "Reverse IPv6 zone : {{ (ipa6 | ipaddr('revdns')).split('.')[16:]
| join('.') }}"
    # The reverse zones are split on '.' and only the last part is
    # used (in this example). The reverse for IPv4 assumes a '/24' network
    # and the '16' in the IPv6 zone conversion is for a '/64' network. Adapt
these to your
   # own needs (e.g. '2' for a '/16' network on IPv4 or '20' for an IPv6 '/48'
net.
    - name: Ensure the netaddr module is installed for Python 2
      ansible.builtin.pip:
       name: netaddr
        state: present
      when: ansible_facts['python_version'] is version('3', '<')</pre>
     become: true
    - name: Ensure the netaddr module is installed for Python 3
      ansible.builtin.pip:
       name: netaddr
        state: present
```

```
executable: pip3
      when: ansible_facts['python_version'] is version('3', '>=')
     become: true
    - name: define custom properties for IP addresses
     menandmice.ansible_micetro.props:
       name: location
       state: present
       proptype: text
       dest: ipaddress
       mm_provider: "{{ mm_provider }}"
    # The above example defines just a single property.
    # Defining multiple properties can be achieved by using
    # the Ansible loop functionality.
    # - name: Example of multiple properties
       menandmice.ansible micetro.props:
    #
         name: "{{ item.name }}"
          state: "{{ item.state }}"
          proptype: "{{ item.proptype }}"
    #
          dest: "{{ item.dest }}"
    #
      loop:
       - name: location
    #
         state: present
         proptype: text
    #
    #
          dest: ipaddress
    #
        - name: owner
          state: present
    #
         proptype: text
         dest: ipaddress
    # When running an Ansible lookup plugin, this lookup action takes
    # place every time the variable is referenced. So it will not be
    # possible to claim an IP address for further reference, this way.
    # This has to do with the way Ansible works. A solution for this
    # is to assign all collected free IP addresses to an Ansible fact,
   # but here you need to make sure the factname is not used over
    # multiple hosts.
    - name: get free IP addresses and set it as a fact
     ansible.builtin.set_fact:
       freeips: "{{ query('menandmice.ansible_micetro.freeip', mm_provider,
network, claim=60, excludedhcp=True) }}"
    - name: Get the free IP address and show info
     ansible.builtin.debug:
       msg:
          - "Free IPs
                                : {{ freeips }}"
          - "Queried network(s) : {{ network }}"
    # Make a DHCP reservation for this address
    # So claim it after DNS setting.
    - name: Reservation on IP address
     menandmice.ansible_micetro.dhcp:
       state: present
       name: testhost
        ipaddress: "{{ freeips }}"
```

```
macaddress: "de:ad:be:ef:16:10"
        mm_provider: "{{ mm_provider }}"
      delegate_to: localhost
    - name: Set properties on IP
      menandmice.ansible_micetro.ipprops:
        state: present
        ipaddress: "{{ freeips }}"
        properties:
          claimed: false
          location: London
        mm_provider: "{{ mm_provider }}"
      delegate_to: localhost
    - name: Ensure the zone
     menandmice.ansible_micetro.zone:
        state: present
        name: thetestzone.com
        nameserver: mandm.example.com
        authority: mandm.example.net
        masters: mandm.example.net
        servtype: master
       mm_provider: "{{ mm_provider }}"
      delegate_to: localhost
    # The `menandmice.ansible_micetro.freeip` plugin always returns a list, but
the request was for just 1
    # IP address. The `menandmice.ansible_micetro.dnsrecord` only needs a
single IP address. That's why the
    # list-slice `[0]` is used.
    - name: Set a DNS record for the claimed IP
     menandmice.ansible_micetro.dnsrecord:
        dnszone: testzone
        name: testhost
        data: "{{ freeips[0] }}"
        mm_provider: "{{ mm_provider }}"
      delegate_to: localhost
    - name: Set a PTR DNS record for the claimed IP
      menandmice.ansible micetro.dnsrecord:
        dnszone: "{{ (freeips[0] |
ansible.utils.ipaddr('revdns')).split('.')[1:] | join('.') }}"
        name: "{{ freeips[0] | ansible.utils.ipaddr('revdns') }}"
        data: "testhost.testzone."
        rrtype: PTR
        mm provider: "{{ mm provider }}"
      delegate_to: localhost
    # The `menandmice.ansible_micetro.ipinfo` returns all known information of
an IP
    # address. This can be used to query certain properties, or
    # for debugging.
    - name: Get all info for this IP address
     ansible.builtin.debug:
       var: freeipinfo
      vars:
        freeipinfo: "{{ query('menandmice.ansible_micetro.ipinfo', mm_provider,
```

```
freeips[0]) | to_nice_json }}"
   - name: Renew properties on IP
     menandmice.ansible_micetro.ipprops:
       state: present
       ipaddress: "{{ freeips }}"
       properties:
         claimed: false
         location: Madrid
       mm_provider: "{{ mm_provider }}"
     delegate_to: localhost
   - name: Get all info for this IP address
     ansible.builtin.debug:
       var: freeipinfo
     vars:
       freeips[0]) | to_nice_json }}"
   - name: Remove properties of IP
     menandmice.ansible_micetro.ipprops:
       state: present
       ipaddress: "{{ freeips }}"
       deleteunspecified: true
       properties:
         claimed: false
       mm_provider: "{{ mm_provider }}"
     delegate_to: localhost
   - name: Get all info for this IP address
     ansible.builtin.debug:
       var: freeipinfo
       freeipinfo: "{{ query('menandmice.ansible_micetro.ipinfo', mm_provider,
freeips[0]) | to_nice_json }}"
   - name: Remove reservation on IP address
     menandmice.ansible_micetro.dhcp:
       state: absent
       name: testhost
       ipaddress: "{{ freeips }}"
       macaddress: "de:ad:be:ef:16:10"
       mm_provider: "{{ mm_provider }}"
     delegate_to: localhost
   - name: Get all info for this IP address
     ansible.builtin.debug:
       var: freeipinfo
       freeipinfo: "{{ query('menandmice.ansible_micetro.ipinfo', mm_provider,
freeips[0]) | to_nice_json }}"
   - name: Remove DNS record for the claimed IP
     menandmice.ansible_micetro.dnsrecord:
       state: absent
       dnszone: testzone
       name: testhost
```

```
data: "{{ freeips[0] }}"
        mm_provider: "{{ mm_provider }}"
      delegate_to: localhost
    - name: Remove the PTR DNS record for the claimed IP
     menandmice.ansible_micetro.dnsrecord:
       state: absent
       dnszone: "{{ (freeips[0] |
ansible.utils.ipaddr('revdns')).split('.')[1:] | join('.') }}"
       name: "{{ freeips[0] | ansible.utils.ipaddr('revdns') }}"
       data: "testhost.testzone."
       rrtype: PTR
       mm_provider: "{{ mm_provider }}"
      delegate_to: localhost
    - name: Get all info for this IP address
      ansible.builtin.debug:
       var: freeipinfo
     vars:
        freeipinfo: "{{ query('menandmice.ansible_micetro.ipinfo', mm_provider,
freeips[0]) | to_nice_json }}"
    - name: Ensure the zone absent
     menandmice.ansible_micetro.zone:
       state: absent
       name: thetestzone.com
       nameserver: mandm.example.com
       authority: mandm.example.net
       masters: mandm.example.net
        servtype: master
       mm_provider: "{{ mm_provider }}"
      delegate_to: localhost
```

Men&Mice Micetro Collection Chapter 5. Credential matrix

Chapter 5. Credential matrix

	1	2	3	4	5	6	7
menandmice.ansib le_micetro.claim ip.py				*			
menandmice.ansib le_micetro.dhcp			*	*			
menandmice.ansib le_micetro.dnsre cord		*					
menandmice.ansib le_micetro.group					*		
menandmice.ansib le_micetro.ippro ps			*				
menandmice.ansib le_micetro.props	*	*	*	*	*		
menandmice.ansib le_micetro.role					*		
menandmice.ansib le_micetro.user					*		
menandmice.ansib le_micetro.zone		*					
menandmice.ansib le_micetro.inven tory				*			
menandmice.ansib le_micetro.freei p				*			
menandmice.ansib le_micetro.ipinf o				*			

Table 1. Module and plugin credentials needed

- 1. Administrators (built-in)
- 2. DNS Administrators (built-in)
- 3. DHCP Administrators (built-in)
- 4. IPAM Administrators (built-in)
- 5. User Administrators (built-in)
- 6. Approvers (built-in)
- 7. Requesters (built-in)

Chapter 5. Credential matrix Men&Mice Micetro Collection

5.1. Remarks

• The menandmice.ansible_micetro.props module manages custom properties for all types, like DNS servers, DHCP servers, zones, IP ranges etc. When using the module for a type when no modify rights are granted, an error will occur. It is possible to grant less rights and allow only to modify a subset of the record types.

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