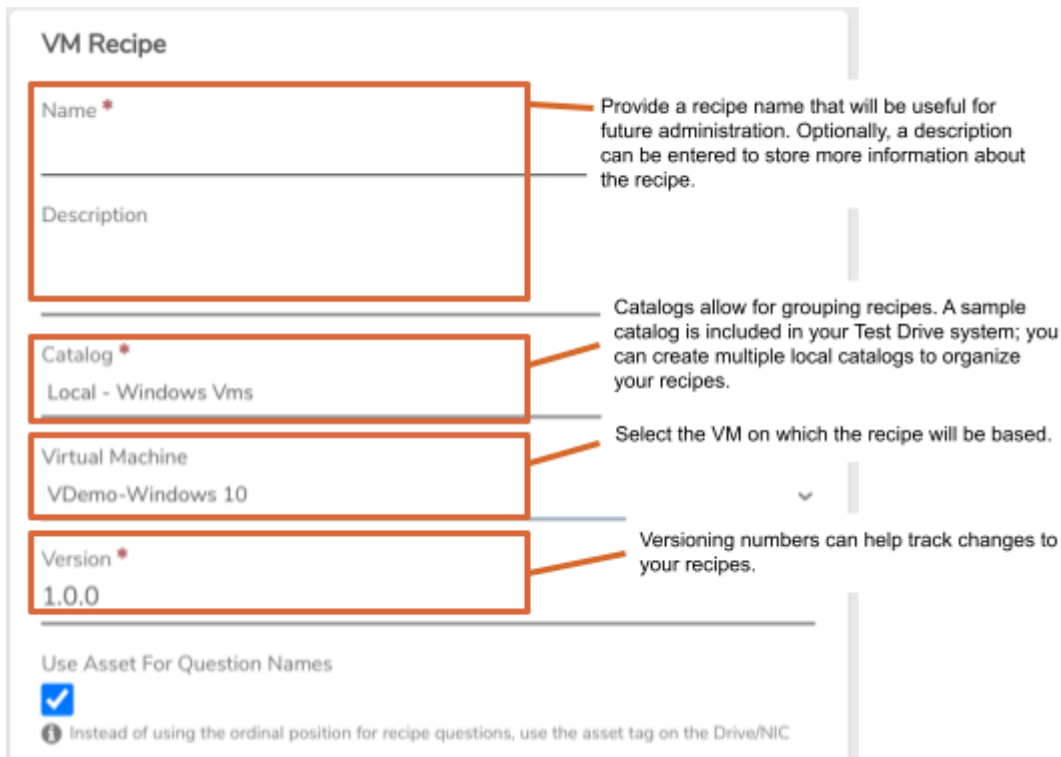


The Verge.io Recipe Engine can be used to streamline and simplify VM deployments, allowing automation of tasks such as resource allocation, host and application configuration, network assignments, IP addressing, licensing, etc.

Create a VM Recipe:

- Build a VM with desired base configuration and installed applications to serve as recipe base template. The VM must be powered off prior to creating the recipe.
- Navigate to the VM Recipes Dashboard (**Home -> Catalogs -> VM Recipes**).
- Click **New** on the left menu.





The screenshot shows the 'VM Recipe' form with the following fields and annotations:

- Name ***: A text input field with a red asterisk. An annotation points to it: "Provide a recipe name that will be useful for future administration. Optionally, a description can be entered to store more information about the recipe."
- Description**: A text area below the name field.
- Catalog ***: A dropdown menu with "Local - Windows Vms" selected. An annotation points to it: "Catalogs allow for grouping recipes. A sample catalog is included in your Test Drive system; you can create multiple local catalogs to organize your recipes."
- Virtual Machine**: A dropdown menu with "VDemo-Windows 10" selected. An annotation points to it: "Select the VM on which the recipe will be based."
- Version ***: A text input field with "1.0.0" entered and a red asterisk. An annotation points to it: "Versioning numbers can help track changes to your recipes."
- Use Asset For Question Names**: A checkbox that is checked.
- Info icon**: A small icon with a question mark and the text: "Instead of using the ordinal position for recipe questions, use the asset tag on the Drive/NIC"

- Click **Submit** to save the recipe.
- The dashboard for the new Recipe will appear. Click **Questions** on the left menu.

Tailor VM Recipe Questions:

Recipe questions are used to customize each VM deployed from the recipe. A series of questions is created automatically to help you get started. You can adjust and add to the default question list to uniquely tailor the recipe to fit your needs.

Recipe Questions		<input type="checkbox"/> Enabled	Section	Order ID  	Name	Type	Display	Default
New	- All -					- All -		
Edit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Virtual Machine	1	YB_CPU_CORES	Number	Cores	4
Enable	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Virtual Machine	2	YB_RAM	RAM	RAM	8192
Disable	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Virtual Machine	3	YB_CLUSTER	Cluster	Cluster	
Delete	<input type="checkbox"/>	<input type="checkbox"/>	Virtual Machine	4	YB_POWERON	Boolean	Auto-Power On	false
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Virtual Machine	5	YB_CONSOLE_PASS	Password	Console Password	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Network	6	YB_NIC_66	Network	Network for VDemo_LAN	
	<input type="checkbox"/>	<input type="checkbox"/>	Network	7	YB_NIC_66_IP_ADDR	String	IP address for VDemo_LAN	auto
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Drives	8	YB_DRIVE_2_SIZE	Disk Size	Drive OS size	161061273600
	<input type="checkbox"/>	<input type="checkbox"/>	Drives	9	YB_DRIVE_2_SERIAL	String	Drive OS serial	
	<input type="checkbox"/>	<input type="checkbox"/>	Drives	10	YB_DRIVE_2_NONPERSISTENT	Hidden	Drive OS is non-persistent	false

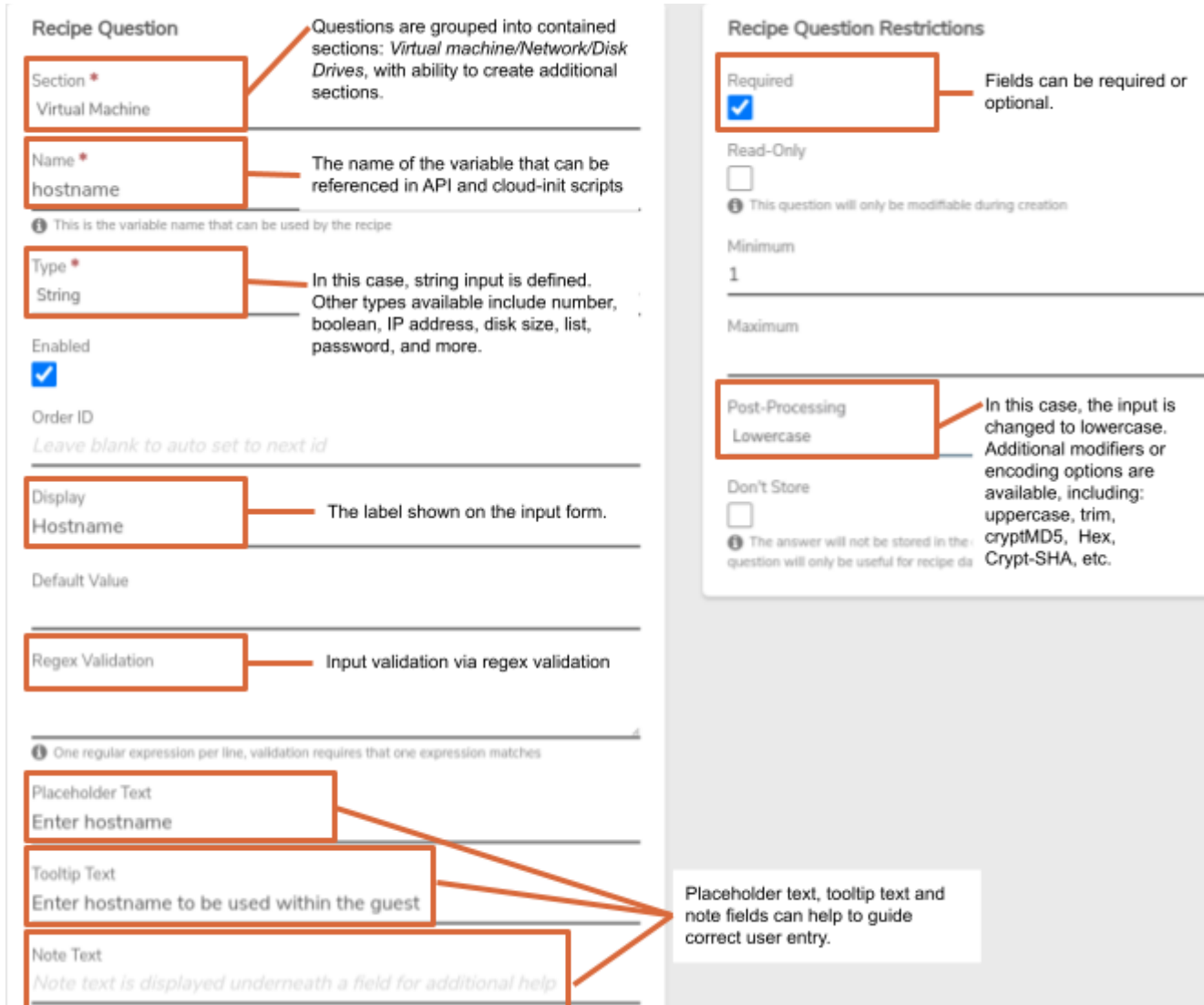
Enable a Disabled Recipe Question:

Some of the automatically-created questions are included as samples (not enabled). Note, in the screenshot above, **YB_DRIVE_2_SIZE** is disabled; enabling this question would allow customizing the size of the OS drive at the time of VM instantiation (simply double click the question; click to set the Enabled checkbox to checked and submit the change.)

Add Further Recipe Questions:

You can attach additional questions to your recipe for increased customization. For example, we can add a question to prompt for hostname and then collect and use that value in a cloud-init script to configure hostname within the guest. Fields can also be used to interface with the Verge.io API. For example, we could create a field to collect IP address (or perhaps, last octet of IP address, with first 3 octets hard-coded); the ip address could then be used to automatically assign addresses, register dhcp, dns, etc.

- From the Recipe Questions page, click **New** on the left menu.



Recipe Question

Questions are grouped into contained sections: *Virtual machine/Network/Disk Drives*, with ability to create additional sections.

Section *
Virtual Machine

Name *
hostname
This is the variable name that can be used by the recipe

Type *
String
In this case, string input is defined. Other types available include number, boolean, IP address, disk size, list, password, and more.

Enabled

Order ID
Leave blank to auto set to next id

Display
Hostname
The label shown on the input form.

Default Value

Regex Validation
Input validation via regex validation

One regular expression per line, validation requires that one expression matches

Placeholder Text
Enter hostname

Tooltip Text
Enter hostname to be used within the guest

Note Text
Note text is displayed underneath a field for additional help

Recipe Question Restrictions

Required
Fields can be required or optional.

Read-Only
This question will only be modifiable during creation

Minimum
1

Maximum

Post-Processing
Lowercase
In this case, the input is changed to lowercase. Additional modifiers or encoding options are available, including: uppercase, trim, cryptMD5, Hex, Crypt-SHA, etc.

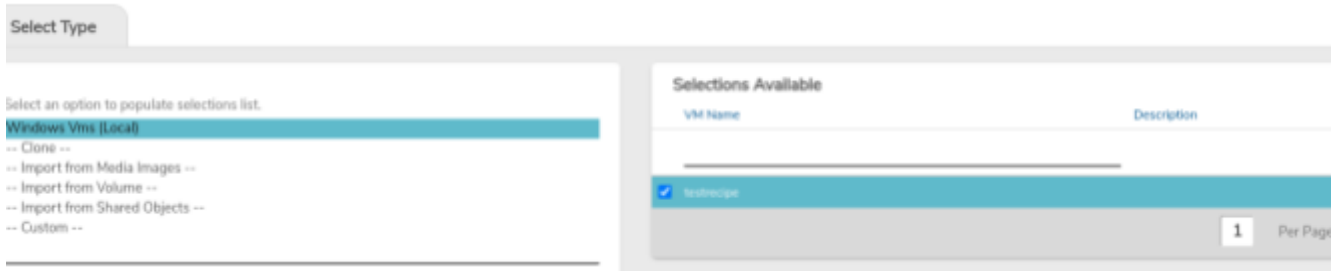
Don't Store
The answer will not be stored in the question will only be useful for recipe da

Placeholder text, tooltip text and note fields can help to guide correct user entry.

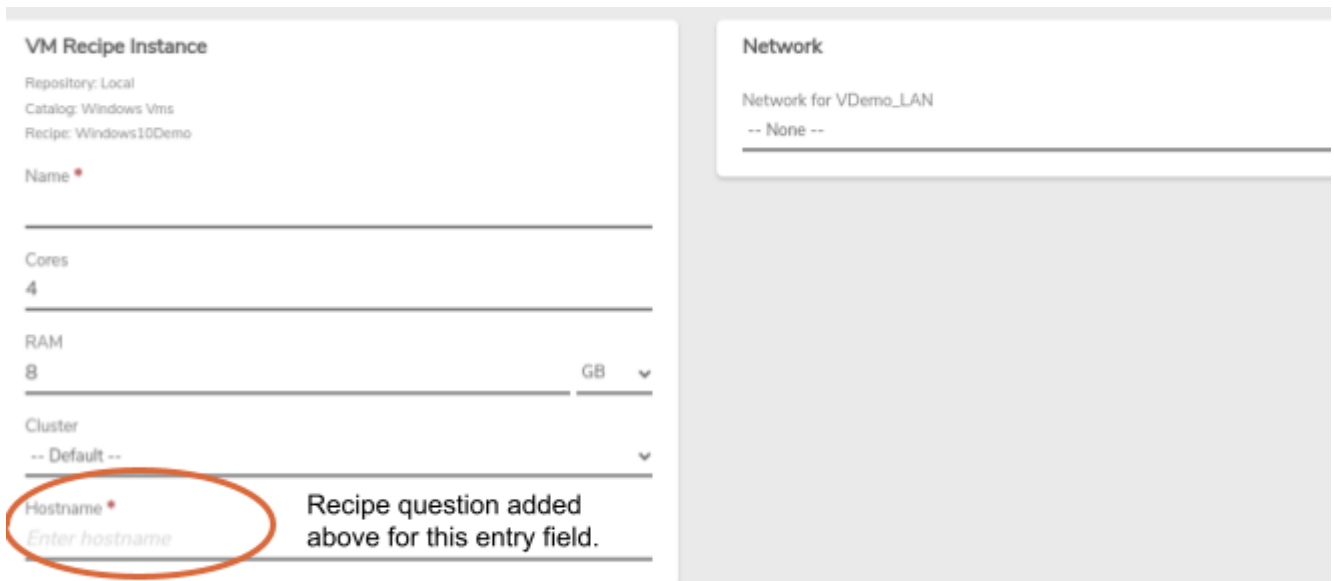
- After making desired additions/changes to recipe questions, click **Republish** on the left menu to make the updates available for use.

Generate a New VM from Recipe:

- Navigate to the Virtual Machines Dashboard (**Home -> Machines -> Virtual Machines**).
- Click **New** on the left menu.
A list of available catalogs displays on the left. Select a catalog from the list. A list of recipes contained in the selected catalog displays on the right.



- **Select** the desired **Recipe** from the list on the right.
- Click **Next** (bottom of the screen).



- Entry fields will depend on defined recipe questions. **Enter/select fields as appropriate** for the desired VM.
- When fields are completed, click **Submit**.
A message should appear indicating the VM was created successfully, stating drives and NICS can now be created for the VM. Click **Ok** to see the dashboard page for the VM. *VM drive(s) and NIC(s) are included in the VM Recipe; additional Drives and NICs can be added to the new VM instance as needed.*


Benefits

Customers use recipes to automate creation of VMs and complete virtual data centers that meet specific, pre-audited, compliance requirements. In fact our Test Drive feature is automated with recipes, including the reminders that your Test Drive is about to end.

Further the Discovery

To learn more use these other resources:



Explore inline **Help** within your Test Drive System.
(Access Help by clicking  in the top right corner.)



Browse additional Test Drive guides at <https://verge.io/documents/>



Contact sales@verge.io to schedule a full demonstration