

## Support for Additional Attributes

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Follow the below steps to add an attribute that is not present already in your Excel sheet -

1. Add the attribute name to the CD3 Excel sheet (based on the resource the attribute belongs to) as given in Terraform Official Documentation.
2. Uncomment the attribute in .tf files (terraform modules in outdirectory, if they are commented).
3. Uncomment the attribute in Jinja template for the resource attribute. (Resource to Jinja template mapping is available [here](#))
4. Update the variable file for any additional changes like image ocids, ssh public keys, etc

**Example 1: To add an attribute for Instances - (preserve\_boot\_volume)**

- Here is the Terraform Hashicorp documentation for instances - [https://registry.terraform.io/providers/oracle/oci/latest/docs/resources/core\\_instance](https://registry.terraform.io/providers/oracle/oci/latest/docs/resources/core_instance)
- Add an additional column **preserve\_boot\_volume** to the Instances Sheet as shown below. Optionally change the underscores to spaces for better readability.

Q	R	S	T	U	V	W
Policy ment Name	NSGs	Dedicated VM Host	Defined Tags	Preserve Boot Volume		
				TRUE		
C		VM3	Operations.Cost Center=01; Users.Name=user r01			
	ebs-nsg					
	tcc-nsg					
	tcc-nsg					

- Uncomment the parameter in **instances.tf** file as shown below.

```
52 # boot_volume_type = each.value.boot_volume_type
53 # firmware = each.value.firmware
54 # is_consistent_volume_naming_enabled = each.value.is_consistent_volume_naming_enabled
55 # network_type = each.value.network_type
56 # remote_data_volume_type = each.value.remote_data_volume_type
57 # platform_config = each.value.platform_config
58 # ipxe_script = each.value.ipxe_script
59 preserve_boot_volume = each.value.preserve_boot_volume
60 # assign_private_dns_record = each.value.assign_private_dns_record
61 # vlan_id = each.value.vlan_id
62 # kms_key_id = each.value.kms_key_id
63
64 # VNIC Details
65 # vnic_defined_tags = each.value.vnic_defined_tags
66 # vnic_freeform_tags = each.value.vnic_freeform_tags
67 # vnic_display_name = each.value.vnic_display_name
68 }
```

- Uncomment the parameter in **cd3\_automation\_toolkitCompute\templates\instance-template** . Any line that is between **# <and> #** are commented in Jinja templates. From the screenshot below we note that the condition for **preserve\_boot\_volume** is within the Jinja comments. Copy the highlighted line and place it after/outside line 184 (**#**) as per below screenshot.

Before:

```
164         {% endif %}
165
166         {% if assign_private_dns_record %}
167         firmware = "{{ assign_private_dns_record }}"
168         {% endif %}
169
170         {% if preserve_boot_volume %}
171         preserve_boot_volume = "{{ preserve_boot_volume }}"
172         {% endif %}
173
174         {% if vlan_id %}
175         vlan_id = "{{ vlan_id }}"
176         {% endif %}
177
178         {% if kms_key_id %}
179         kms_key_id = "{{ kms_key_id }}"
180         {% endif %}
181
182         #
183     
```

- 

After:

```
171
172
173
174
175
176         {% if vlan_id %}
177         vlan_id = "{{ vlan_id }}"
178         {% endif %}
179
180         {% if kms_key_id %}
181         kms_key_id = "{{ kms_key_id }}"
182         {% endif %}
183
184         #
185
186         {% if preserve_boot_volume %}
187         preserve_boot_volume = "{{ preserve_boot_volume }}"
188         {% endif %}
189     
```


- Apart from the above changes, optionally, update the **instance\_ssh\_keys** and **instance\_source\_ocids** in your variables file before executing the toolkit to generate the auto.tfvars for instances.

**Example 2: To add Freeform Tags -**

Automation Tool Kit allows the tagging of resources. To use this option, the user is required to add the below column to the appropriate CD3 sheet.

Ex: To Tag your Instances, Open the 'Instances' sheet of your CD3 and add the below column at the end.

- FreeForm Tags


 **Note**

The Tag Values (Default and Freeform Tags) specified will apply to all the resources in the tab.  
Ex: The tags applied to VCNs will not be applied to its objects like IGW, NGW, SGW, LPG, etc  
Empty column values are allowed for FreeForm and Defined Tags; when used it does not attach any tags to the resource. eg: Row 1 in the below example  
Semi Colon is used as Delimiter between multiple tag values (Example as shown below)

Allowed Values for Tags include the following formats: (Semi-colon delimited values to be entered)

Example:

SNo	FreeForm Tags	Defined Tags
1		
2	Network=Test1;Network2=Test40	Operations.CostCenter=01;Users.Name=user01
3	Network=Test2; Network2=Test4	Application.Env=Dev
4	Network=	OS.Version=
5	testing	Platform.Usage

 Export of new attributes is only supported if the attribute name of Terraform documentation matches that of the Python SDK. Export may fail to fetch the data incase there is a mismatch of the variable names.

## Resource to Template Mapping -

**Added New options for CIS compliance.**

The following Table maps the Excel Sheet to the Resources to the Templates:

Tab Name/SetUpOCI Option	Resource Name (OCI Console)	Jinja2 Template Path	Jinja2 Template Name
Compartments Groups Policies	<b>Identity:</b> Compartments Groups Dynamic Groups Policies	cd3_automation_toolkit\Identity\Compartments\templates\ cd3_automation_toolkit\Identity\Groups\templates\ cd3_automation_toolkit\Identity\Policies\templates\ 	compartments-template groups-template policies-template
Tags	<b>Governance:</b> Tag Namespace	cd3_automation_toolkit\Governance\Tagging\templates	tags-namespaces-template tags-keys-template tags-defaults-template
VCNs SubnetsDHCP RouteRulesinOCI SecRulesinOCI NSGs	<b>Networking:</b> Virtual Cloud Networks	cd3_automation_toolkit\Network\BaseNetwork\templates\ 	major-objects-drgs-template major-objects-igws-template major-objects-ngws-template major-objects-lpgs-template major-objects-sgws-template major-objects-vcns-template major-objects-drq-attachments-template major-objects-default-dhcp-template subnet-template custom-dhcp-template drq-data-source-template drq-route-distribution-statement-template drq-route-distribution-template drq-route-rule-template

Tab Name/SetUpOCI Option	Resource Name (OCI Console)	Jinja2 Template Path	Jinja2 Template Name
			drg-route-table-template default-route-table-template route-rule-template route-table-template default-seclist-template seclist-template sec-rule-template nsg-rule-template nsg-template
DedicatedVMHosts Instances	<b>Compute:</b> Dedicated Virtual Machine Hosts Instances	cd3_automation_toolkit\Compute\templates\	dedicatedvmhosts-template instances-template
BlockVolumes	<b>Block Storage:</b> Block Volumes	cd3_automation_toolkit\Storage\BlockVolume\templates\	blockvolumes-template
FSS	<b>File Storage:</b> File Systems	cd3_automation_toolkit\Storage\FileStorage\templates\	fss-template export-resource-template export-options-template mount-target-template
LB-Hostname-Certs BackendSet-BackendServer RuleSet PathRouteSet LB-Listener	<b>Networking:</b> Load Balancers	cd3_automation_toolkit\Networking\LoadBalancers\templates\	lbr-template certificate-template hostname-template cipher-suite-template backend-server-template backend-set-template rule-set-template access-control-rules-template access-method-rules-template http-header-rules-template request-response-header-rules-template uri-redirect-rules-template path-route-set-template path-route-rules-template listener-template lbr-reserved-ips-template
NLB-Listeners NLB-BackendSets-BackendServers	<b>Networking:</b> Network Load Balancers	cd3_automation_toolkit\Networking\LoadBalancers\templates\	nlb-template nlb-backend-set-template nlb-backend-server-template nlb-listener-template nlb-reserved-ips-template
ADB DBSystems-VM-BM EXA-Infra EXA-VMClusters	<b>Autonomous Data Warehouse</b> <b>Autonomous Transaction Processing</b> <b>Bare Metal, VM and Exadata Infra, and Exadata VM Clusters</b>	cd3_automation_toolkit\Database\templates\	adb-template dbsystems-vm-bm-template exa-infra-template exa-vmclusters-template
OKE	<b>Developer Service:</b> Oracle Kubernetes Service	cd3_automation_toolkit\DeveloperServices\OKE\templates\	cluster-template nodepool-template
Cloud Guard	Cloud Guard	cd3_automation_toolkit\Security\CloudGuard\templates	cloud-guard-config-template cloud-guard-target-template
Key Vault	Key and Vault	cd3_automation_toolkit\Security\KeyVault\templates	keys-template vaults-template
Logging	VCN Flow Logs Object Storage Bucket Logs	cd3_automation_toolkit\ManagementServices\Logging\templates	logging-template
OSS	Object Storage Bucket	cd3_automation_toolkit\Storage\ObjectStorage\templates	oss-policy-template oss-template
Budgets	<b>Governance:</b> Budget	cd3_automation_toolkit\Governance\Billing\templates	budget-alert-rule-template budget-template

CD3-EN-template.xlsx

Tab Name	Resource Name (OCI Console)	Jinja2 Template Path	Jinja2 Template Name
Notifications Events Alarms	<b>Application Integration:</b> Notification Events Service Alarms	cd3_automation_toolkit\ManagementServices\EventsAndNotifications\templates\ cd3_automation_toolkit\ManagementServices\Monitoring\templates\  	actions-template events-template notifications-topics-template notifications-subscriptions-template

No labels

