Scenario Based Workflows

This page will give you an insight into the Automation Toolkit Workflows that must be followed for flawless execution and usage of the toolkit.

NOTE:

1. Automation Tool Kit DOES NOT support the **creation/export** of duplicate resources.
2. DO NOT **modify/remove** any commented rows or column names. You may **re-arrange** the columns if needed (**except NSGs**).
3. A double colon (::) or Semi-Colon (;) has a special meaning in the Tool Kit. Do **not** use them in the OCI data / values.
4. Do **not** include any **unwanted space in cells** you fill in; do not place any **empty rows** in between.
5. To learn about how to add attributes, refer *Support for additional attributes (Flat TF Files)*
6. Any entry made/moved post **<END>** in any of the Tabs, of CD3 will not be processed. Any resources created by the automation & then moved after the <END> will cause the resources to be removed.
7. The components that get created as part of VCNs Tab (Example: IGW, SGW, LPG, NGW, DRG) will have the same set of Tags attached to them.
8. Automation Tool Kit does not support sharing of Block Volumes.
9. Detail on the know behaviour of the toolkit can be found at *Known Behaviour Of Automation Toolkit*
10. Option to Modify Network -
    Some points to consider while modifying networking components are -
    - Converting the exported VCN to Hub/Spoke/Peer VCN is not allowed. Route Table rules based on the peering for new LPGs to existing VCNs will not be auto populated. Users are requested to add an entry to the RouteRulesInOCI sheet to support the peering rules.
    - Adding a new VCN as Hub and other new VCNs as Spoke/Peer is allowed. Gateways will be created as specified in VCNs sheet.
    - Adding new VCNs as None is allowed. Gateways will be created as specified in VCNs sheet.
    - The addition of new Subnets to exported VCNs and new VCNs is allowed.

Scenarios	Execution Steps
Validate CD3	**Steps:** 1. Modify the setUpOCI.properties file to set **non_gf_tenancy** to "**false**". 2. Execute setUpOCI.py and choose the service from the menu options. Choose **option 0** (Validate CD3) 3. Choose the options from sub-menu. Make sure to have created Identity (terraform apply) before you validate Tags, Network, Compute, Storage, Database, LoadBalancers and Management Services. **Expected ERROR:** Compartment Network does not exist in OCI. These error mean that the component is not found in OCI. So, please make sure to create the Compartment "Network" before validating other tabs.
Greenfield - Create new components	**Steps**: 1. Modify the setUpOCI.properties file to set **non_gf_tenancy** to "**false**". 2. Execute setUpOCI.py and choose the service from the menu options.
NonGreenfield/Export existing components from tenancy	**Steps:** 1. Modify the setUpOCI.properties file to set **non_gf_tenancy** to "**true**". 2. Execute setUpOCI.py and choose the service from the menu options.

Greenfield - Create Identity components	**Steps:** 1. Modify the setUpOCI.properties file to set **non_gf_tenancy** to "**false**". 2. Execute setUpOCI.py and choose the service from the menu options Choose **option 1** (Identity) Choose **option 1 and 2** (Create Compartments and Create Groups) 3. Change directory to that of outdir and execute terraform init /plan/apply. 4. Change your directory to /cd3user/tenancies/<prefix>, cat cmds.log. Copy and execute the command for fetch compartments to tf vars. 5. Execute setUpOCI.py and choose the service from the menu options Choose **option 1** (Identity) Choose **option 3** (Create Policies) 6. Execute Terraform Plan and Trerraform Apply in outdir.
Add a new Network Component - VCN/DHCP/DRG/Subnet	**Steps:** 1. Modify the setUpOCI.properties file to set **non_gf_tenancy** to "**false**". 2. Add the data to the appropriate Excel sheets. 3. Execute setUpOCI.py and choose **option 3 (Network)**. 4. Choose **sub-menu option 2(Modify Network).** **Note:** Make sure to export Sec Rules, Route Rules, DRG Route Rules (Option 3,4 of sub-menu) to CD3 Excel Sheet before executing this option.
Add a new Compute VM to an existing Infrastructure (such as Identity, Network) in OCI	**Steps:** 1. Modify the setUpOCI.properties file to set **non_gf_tenancy** to "**true**". 2. Execute setUpOCI.py and choose **option 3** (Export Network) from the menu options. 3. Execute the generated shell script to sync the Terraform with existing network components of OCI. 4. Add the new VM details to the Excel sheet. 5. Modify the setUpOCI.properties file to set **non_gf_tenancy** to "**false**". 6. Execute setUpOCI.py and choose **option 4** (Network) and then **option 2** (Add/Modify/Delete Instances/Boot Backup Policy) from the menu options. 7. Execute Terraform Plan and Trerraform Apply in outdir.
To add a new Route Table/Update existing Route Rules/Add new Route Rules /Delete existing Route Rules/Delete existing Route Table/ Add new Security List/ Update existing Security Rule/ Add new Security Rules/Delete existing Security Rules **Note:** This will create TF for only those Security Lists and Route Tables in VCNs which are part of cd3 and skip any VCNs that have been created outside of cd3 execution.	**Steps:** 1. Modify the setUpOCI.properties file to set **non_gf_tenancy** to "**false**". 2. Add/Update the data to the appropriate Excel sheets. (RouteRulesInOCI, SecRulesInOCI, DRGRouteRulesInOCI). 3. Execute setUpOCI.py and choose **option 3 (Network)**. 4. Choose **sub-menu options 5 / 6 / 7** (Modify SecRules, Modify RouteRules, Modify DRG RouteRules respectively) **or a combination of these** according to the requirement.
Add new components **after export of non-greenfield tenancy** - For Networking - VCN/DHCP/DRG/IGW/NGW/SGW/LPG/Subnet	**Steps:** 1. Modify the setUpOCI.properties file to set **non_gf_tenancy** to "**false**". 2. Add the data to the appropriate Excel sheets. 3. Execute setUpOCI.py and choose **option 3 (Network)**. 4. Choose **sub-menu option 2(Modify Network).**

Sample of CD3 after export:

(DO NOT Modify the highlighted columns)

VCNs tab:

Region	Compartment Name	VCN Name	CIDR Block	DRG Required	IGW Required	NGW Required	SGW Required	LPG Required	Hub/Spoke/Peer/None	DNS Label
Phoenix	OMCDev-VM	ocs-vcn	10.100.0.0/16	n	igw	n	n	n	exported	ocsvcn
Phoenix	OMCDev-VM	oke-vcn-quick-DevOps-Default-158338dec	10.0.0.0/16	oke-drg	oke-igw-quick-DevOps-Default-158338dec	oke-ngw-quick-DevOps-Default-158338dec	n	n	exported	devopsdefault
Phoenix	OMCDev-VM	dcs-slave-vcn	10.0.0.0/16	n	Internet Gateway for dcs-slave-vcn	n	n	dcs-slave-vcn_lpg0	exported	n

Subnets tab:

Region	Compartment Name	VCN Name	Subnet Name	CIDR Block	Availability Domain(AD1|AD2|AD3|Regional)	Type(private|public)	DHCP Option Name	Route Table Name	Seclist Names	Add Defaul Seclist	Configure SGW Route(n|object_storage|all_services)	Configure NGW Route(y|n)	Configure IGW Route(y|n)	Configure OnPrem Route(y|n)	Configure VCNPeering Route(y|n)	DNS Label
Phoenix	OMCDev-VM	ocs-vcn	subnet2	10.100.3.0/24	AD3	private		n	n	y	-	-	-	-	-	subnet2
Phoenix	OMCDev-VM	ocs-vcn	subnet	10.100.2.0/24	AD1	public		n	n	y	-	-	-	-	-	subnet
Phoenix	OMCDev-VM	ocs-vcn	ocs_subnet	10.100.10.0/24	Regional	public		n	n	y	-	-	-	-	-	ocssubnet
Phoenix	OMCDev-VM	oke-vcn-quick-DevOps-Default-	oke-subnet-quick-DevOps-Default-	10.0.10.0/24	Regional	private		oke-wkr-routetable-DevOps-Default-	oke-wkr-seclist-quick-DevOps-Default-	n	-	-	-	-	-	sub6b9b55a16
Phoenix	OMCDev-VM	oke-vcn-quick-DevOps-Default-158338dec	shrsubr-oke-svclbsubnet-quick-DevOps-Default-158338dec-regional	10.0.20.0/24	Regional	public		oke-lb-routetable-DevOps-Default-158338dec	oke-lb-seclist-quick-DevOps-Default-158338dec	n	-	-	-	-	-	lbsub64d6c5820
Phoenix	OMCDev-VM	dcs-slave-vcn	dcs-slave-subnet-wdWU:PHX-AD-3	10.0.2.0/24	AD3	public		n	n	y	-	-	-	-	-	n
Phoenix	OMCDev-VM	dcs-slave-vcn	dcs-slave-subnet-wdWU:PHX-AD-2	10.0.1.0/24	AD2	public		n	n	y	-	-	-	-	-	n