» nsxt_edge_cluster

This data source provides information about Edge clusters configured in NSX. An Edge cluster is a collection of Edge nodes which can be deployed as either VM form-factor or bare-metal form-factor machines for connectivity between overlay logical switches and non-NSX underlay networking for north/south layer 2 or layer 3 connectivity. Each T0 router will be placed on one ore more Edge nodes in an Edge cluster therefore this data source is needed for the creation of T0 logical routers.

» Example Usage

```
data "nsxt_edge_cluster" "edge_cluster1" {
  display_name = "edgecluster"
}
```

» Argument Reference

- id (Optional) The ID of Edge Cluster to retrieve.
- display_name (Optional) The Display Name prefix of the Edge Cluster to retrieve.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- description The description of the edge cluster.
- deployment_type This field could show deployment_type of members.
 It would return UNKNOWN if there is no members, and return VIRTUAL_MACHINE|PHYSICAL_MACHINE if all Edge members are VIRTUAL_MACHINE|PHYSICAL_MACHINE.
- member_node_type An Edge cluster is homogeneous collection of NSX transport nodes used for north/south connectivity between NSX logical networking and physical networking. Hence all transport nodes of the cluster must be of same type. This field shows the type of transport node,

» nsxt_logical_tier0_router

This data source provides information about logical Tier 0 routers configured in NSX. A Tier 0 router is used to connect NSX networking with traditional

physical networking. Tier 0 routers are placed on an Edge cluster and will exist on one or more Edge node depending on deployment settings (i.e. active/active or active/passive). A Tier 0 router forwards layer 3 IP packets and typically peers with a traditional physical router using BGP or can use static routing.

» Example Usage

```
data "nsxt_logical_tier0_router" "tier0_router" {
   display_name = "PLR1"
}
```

» Argument Reference

- id (Optional) The ID of Logical Tier 0 Router to retrieve.
- display_name (Optional) The Display Name prefix of the Logical Tier
 0 Router to retrieve.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- description The description of the logical Tier 0 router.
- edge_cluster_id The id of the Edge cluster where this logical router is placed.
- high_availability_mode The high availability mode of this logical router.

» nsxt_ns_service

This data source provides information about a network and security (NS) service configured in NSX. NS services are either factory defined in NSX or can be defined by the NSX administrator. They provide a convenience name for a port/protocol pair that is often used in fire walling or load balancing.

```
data "nsxt_ns_service" "ns_service_dns" {
  display_name = "DNS"
}
```

- id (Optional) The ID of NS service to retrieve
- display_name (Optional) The Display Name of the NS service to retrieve.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

• description - The description of the NS service.

» nsxt_switching_profile

The switching profile data source provides information about switching profiles configured in NSX. A switching profile is a template that defines the settings of one or more logical switches. There can be both factory default and user defined switching profiles. One example of a switching profile is a quality of service (QoS) profile which defines the QoS settings of all switches that use the defined switch profile.

» Example Usage

```
data "nsxt_switching_profile" "qos_profile" {
  display_name = "qos-profile"
}
```

» Argument Reference

- id (Optional) The ID of Switching Profile to retrieve.
- display_name (Optional) The Display Name of the Switching Profile to retrieve.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- resource_type The resource type representing the specific type of this switching profile.
- description The description of the switching profile.

» nsxt_transport_zone

This data source provides information about Transport Zones (TZ) configured in NSX. A Transport Zone defines the scope to which a network can extend in NSX. For example an overlay based Transport Zone is associated with both hypervisors and logical switches and defines which hypervisors will be able to serve the defined logical switch. Virtual machines on the hypervisor associated with a Transport Zone can be attached to logical switches in that same Transport Zone.

» Example Usage

```
data "nsxt_transport_zone" "overlay_transport_zone" {
   display_name = "1-transportzone-87"
}
```

» Argument Reference

- id (Optional) The ID of Transport Zone to retrieve.
- display_name (Optional) The Display Name prefix of the Transport Zone to retrieve.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- description The description of the Transport Zone.
- host_switch_name The name of the N-VDS (host switch) on all Transport Nodes in this Transport Zone that will be used to run NSX network traffic.
- transport_type The transport type of this transport zone (OVERLAY or VLAN).

» nsxt_dhcp_relay_profile

This resource can be used to configure a NSX DHCP relay profile on the NSX manager. A DHCP relay profile is a type of template that can be used to define a remote DHCP server where DHCP packets can be relayed for DHCP requests of machines attached to NSX logical topologies. The DHCP relay profile can be used in a DHCP relay service and later consumed by a router link port.

» Example Usage

```
resource "nsxt_dhcp_relay_profile" "dr_profile" {
  description = "DRP provisioned by Terraform"
 display_name = "DRP"
 tag {
    scope = "color"
   tag = "red"
  server_addresses = ["1.1.1.1"]
resource "nsxt_dhcp_relay_service" "dr_service" {
  display_name
                       = "DRS"
  dhcp_relay_profile_id = "${nsxt_dhcp_relay_profile.dr_profile.id}"
resource "nsxt_logical_router_downlink_port" "router_downlink" {
                                = "logical_router_downlink_port"
 display name
 linked_logical_switch_port_id = "${nsxt_logical_port.port1.id}"
                               = "${nsxt_logical_tier1_router.rtr1.id}"
 logical_router_id
  subnet {
    ip_addresses = ["8.0.0.1"]
   prefix_length = 24
  service_binding {
    target_id = "${nsxt_dhcp_relay_service.dr_service.id}"
    target_type = "LogicalService"
}
```

» Argument Reference

- description (Optional) Description of this resource.
- display_name (Optional) The display name of this resource. Defaults to ID if not set.
- tag (Optional) A list of scope + tag pairs to associate with this dhcp relay profile.
- server_addresses (Required) IP addresses of the DHCP relay servers.

In addition to arguments listed above, the following attributes are exported:

- id ID of the dhcp_relay_profile.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing DHCP Relay profile can be imported into this resource, via the following command:

```
terraform import nsxt_dhcp_relay_profile.dr_profile UUID
```

The above command imports the DHCP relay profile named dr_profile with the NSX id UUID.

» nsxt_dhcp_relay_service

This resource provides a way to configure the DHCP relay service on the NSX manager. The DHCP relay service uses a DHCP relay profile and later consumed by a router link port to provide DHCP addresses to virtual machines connected to a logical switch.

```
resource "nsxt_dhcp_relay_profile" "dr_profile" {
  description = "DRP provisioned by Terraform"
  display_name = "DRP"

  tag {
    scope = "color"
    tag = "red"
  }

  server_addresses = ["1.1.1.1"]
}

resource "nsxt_dhcp_relay_service" "dr_service" {
  display_name = "DRS"
  dhcp_relay_profile_id = "${nsxt_dhcp_relay_profile.dr_profile.id}"
}
```

The following arguments are supported:

- description (Optional) Description of this resource.
- display_name (Optional) The display name of this resource. Defaults to ID if not set.
- tag (Optional) A list of scope + tag pairs to associate with this dhcp_relay_service.
- dhcp_relay_profile_id (Required) dhcp relay profile referenced by the dhcp relay service.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the dhcp_relay_service.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing DHCP Relay service can be imported into this resource, via the following command:

```
terraform import nsxt_dhcp_relay_service.dr_service UUID
```

The above command imports the DHCP relay service named dr_service with the NSX id UUID.

» nsxt_firewall_section

This resource provides a way to configure a firewall section on the NSX manager. A firewall section is a collection of firewall rules that are grouped together.

```
resource "nsxt_firewall_section" "firewall_sect" {
 description = "FS provisioned by Terraform"
 display_name = "FS"
 tag {
   scope = "color"
   tag = "blue"
 applied_to {
   target_type = "NSGroup"
   target_id = "${nsxt_ns_group.group1.id}"
 section_type = "LAYER3"
 stateful
            = true
 rule {
   display_name = "out_rule"
   description = "Out going rule"
              = "ALLOW"
   action
   logged
                = true
   ip_protocol = "IPV4"
   direction = "OUT"
   source {
     target_type = "LogicalSwitch"
     target_id = "${nsxt_logical_switch.switch1.id}"
   destination {
     target_type = "LogicalSwitch"
     target_id = "${nsxt_logical_switch.switch2.id}"
   }
 }
 rule {
```

```
display_name = "in_rule"
    description = "In going rule"
    action
                 = "DROP"
    logged
                 = true
    ip_protocol = "IPV4"
    direction
                 = "IN"
    service {
      target type = "NSService"
                 = "e8d59e13-484b-4825-ae3b-4c11f83249d9"
    service {
      target type = "NSService"
      target id
                 = "${nsxt_14_port_set_ns_service.http.id}"
 }
}
```

- display_name (Optional) The display name of this firewall section. Defaults to ID if not set.
- description (Optional) Description of this firewall section.
- tag (Optional) A list of scope + tag pairs to associate with this firewall section.
- applied_to (Optional) List of objects where the rules in this section will be enforced. This will take precedence over rule level applied_to. [Supported target types: "LogicalPort", "LogicalSwitch", "NSGroup"]
- section_type (Required) Type of the rules which a section can contain. Either LAYER2 or LAYER3. Only homogeneous sections are supported.
- stateful (Required) Stateful or Stateless nature of firewall section is enforced on all rules inside the section. Layer3 sections can be stateful or stateless. Layer2 sections can only be stateless.
- rule (Optional) A list of rules to be applied in this section. each rule has the following arguments:
 - display_name (Optional) The display name of this rule. Defaults to ID if not set.
 - description (Optional) Description of this rule.
 - action (Required) Action enforced on the packets which matches the firewall rule. [Allowed values: "ALLOW", "DROP", "REJECT"]
 - applied_to (Optional) List of object where rule will be enforced.
 The section level field overrides this one. Null will be treated as

- any. [Supported target types: "LogicalPort", "LogicalSwitch", "NS-Group"]
- destination (Optional) List of the destinations. Null will be treated as any. [Allowed target types: "IPSet", "LogicalPort", "LogicalSwitch", "NSGroup", "MACSet" (depending on the section type)]
- destinations_excluded (Optional) Negation of the destination.
- direction (Optional) Rule direction in case of stateless firewall rules. This will only considered if section level parameter is set to stateless. Default to IN_OUT if not specified. [Allowed values: "IN", "OUT", "IN_OUT"]
- disabled (Optional) Flag to disable rule. Disabled will only be persisted but never provisioned/realized.
- ip_protocol (Optional) Type of IP packet that should be matched while enforcing the rule. [allowed values: "IPV4", "IPV6", "IPV4 IPV6"]
- logged (Optional) Flag to enable packet logging. Default is disabled.
- notes (Optional) User notes specific to the rule.
- rule_tag (Optional) User level field which will be printed in CLI and packet logs.
- service (Optional) List of the services. Null will be treated as any.
 [Allowed target types: "NSService", "NSServiceGroup"]
- source (Optional) List of sources. Null will be treated as any. [Allowed target types: "IPSet", "LogicalPort", "LogicalSwitch", "NSGroup", "MACSet" (depending on the section type)]
- sources excluded (Optional) Negation of the source.

In addition to arguments listed above, the following attributes are exported:

- id ID of the firewall_section.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.
- is_default A boolean flag which reflects whether a firewall section is default section or not. Each Layer 3 and Layer 2 section will have at least and at most one default section.

» Importing

An existing Firewall section can be imported into this resource, via the following command:

terraform import nsxt_firewall_section.firewall_sect UUID

The above command imports the firewall section named firewall_sect with the NSX id UUID.

» nsxt_ip_set

This resources provides a way to configure an IP set in NSX. An IP set is a collection of IP addresses. It is often used in the configuration of the NSX firewall.

» Example Usage

```
resource "nsxt_ip_set" "ip_set1" {
  description = "IS provisioned by Terraform"
  display_name = "IS"

  tag {
    scope = "color"
    tag = "blue"
  }

  ip_addresses = ["1.1.1.1", "2.2.2.2"]
}
```

» Argument Reference

The following arguments are supported:

- description (Optional) Description of this resource.
- display_name (Optional) The display name of this resource. Defaults to ID if not set.
- tag (Optional) A list of scope + tag pairs to associate with this ip_set.
- ip_addresses (Optional) IP addresses.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the ip set.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing IP set can be imported into this resource, via the following command:

```
terraform import nsxt_ip_set.ip_set1 UUID
```

The above command imports the IP set named ip_set1 with the NSX id UUID.

» nsxt logical port

This resource provides a resource to configure a logical port on a logical switch in the NSX system. Like physical switches a logical switch can have one or more ports which can be connected to virtual machines or logical routers.

» Example Usage

» Argument Reference

- display_name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description of this resource.
- logical_switch_id (Required) Logical switch ID for the logical port.
- admin_state (Optional) Admin state for the logical port. Accepted values 'UP' or 'DOWN'. The default value is 'UP'.

- switching_profile_id (Optional) List of IDs of switching profiles (of various types) to be associated with this switch. Default switching profiles will be used if not specified.
- tag (Optional) A list of scope + tag pairs to associate with this logical port.

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing Logical Port can be imported into this resource, via the following command:

```
terraform import nsxt_logical_port.logical_port UUID
```

The above command imports the logical port named logical_port with the NSX id UUID.

» nsxt_logical_router_downlink_port

This resource provides a means to define a downlink port on a logical router to connect a logical router to a logical switch. The result of this is to provide a default gateway to virtual machines running on the logical switch.

```
tag {
    scope = "color"
    tag = "blue"
}
```

The following arguments are supported:

- logical_router_id (Required) Identifier for logical Tier-1 router on which this port is created
- linked_logical_switch_port_id (Required) Identifier for port on logical switch to connect to
- ip_address (Required) Logical router port subnet (ip_address / prefix length)
- mac_address (Optional) Mac Address
- urpf_mode (Optional) Unicast Reverse Path Forwarding mode
- display_name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description of the resource.
- tag (Optional) A list of scope + tag pairs to associate with this port.
- service_binding (Optional) A list of services for this port

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing Logical Router Downlink Port can be imported into this resource, via the following command:

terraform import nsxt_logical_router_downlink_port.downlink_port UUID

The above command imports the logical router downlink port named ${\tt downlink_port}$ with the NSX id UUID.

» nsxt_logical_router_link_port_on_tier0

This resource provides the ability to configure a logical router link port on a tier 0 logical router. This port can then be used to connect the tier 0 logical router to another logical router.

» Example Usage

» Argument Reference

The following arguments are supported:

- logical_router_id (Required) Identifier for logical Tier0 router on which this port is created.
- display_name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description of the resource.
- tag (Optional) A list of scope + tag pairs to associate with this port.
- service_binding (Optional) A list of services for this port

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- linked_logical_switch_port_id Identifier for port on logical router to connect to.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing logical router link port on Tier-0 can be imported into this resource, via the following command:

```
terraform import nsxt_logical_router_link_port_on_tier0.link_port_tier0 UUID
```

The above command imports the logical router link port on the tier 0 logical router named link port tier0 with the NSX id UUID.

» nsxt_logical_router_link_port_on_tier1

This resource provides the ability to configure a logical router link port on a tier 1 logical router. This port can then be used to connect the tier 1 logical router to another logical router.

» Example Usage

```
resource "nsxt_logical_router_link_port_on_tier1" "link_port_tier1" {
                                = "TIER1_PORT1 provisioned by Terraform"
  description
                                = "TIER1_PORT1"
  display_name
                                = "${nsxt_logical_tier1_router.rtr1.id}"
  logical_router_id
  linked_logical_router_port_id = "${nsxt_logical_router_link_port_on_tier0.link_port_tier0
  service_binding {
    target_id = "${nsxt_dhcp_relay_service.dr_service.id}"
    target_type = "LogicalService"
 tag {
    scope = "color"
    tag
         = "blue"
}
```

» Argument Reference

- logical_router_id (Required) Identifier for logical tier-1 router on which this port is created.
- linked_logical_switch_port_id (Required) Identifier for port on logical Tier-0 router to connect to.
- display_name (Optional) Display name, defaults to ID if not set.

- description (Optional) Description of the resource.
- tag (Optional) A list of scope + tag pairs to associate with this port.
- service_binding (Optional) A list of services for this port

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing logical router link port on Tier-1 can be imported into this resource, via the following command:

```
terraform import nsxt_logical_router_link_port_on_tier1.link_port_tier1 UUID
```

The above command imports the logical router link port on the tier 1 router named link_port_tier1 with the NSX id UUID.

» nsxt_logical_switch

This resource provides a method to create a logical switch in NSX. Virtual machines can then be connected to the appropriate logical switch for the desired topology and network connectivity.

```
key = "${data.nsxt_switching_profile.qos_profiles.resource_type}"
value = "${data.nsxt_switching_profile.qos_profiles.id}"
}
```

The following arguments are supported:

- transport_zone_id (Required) Transport Zone ID for the logical switch.
- admin_state (Optional) Admin state for the logical switch. Accepted values 'UP' or 'DOWN'. The default value is 'UP'.
- replication_mode (Optional) Replication mode of the Logical Switch. Accepted values 'MTEP' (Hierarchical Two-Tier replication) and 'SOURCE' (Head Replication), with 'MTEP' being the default value. Applies to overlay logical switches.
- switching_profile_id (Optional) List of IDs of switching profiles (of various types) to be associated with this switch. Default switching profiles will be used if not specified.
- display_name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description of the resource.
- ip_pool_id (Optional) Ip Pool ID to be associated with the logical switch.
- mac_pool_id (Optional) Mac Pool ID to be associated with the logical switch.
- vlan (Optional) Vlan for vlan logical switch. If not specified, this switch is overlay logical switch.
- vni (Optional) Vni for the logical switch.
- address_binding (Optional) List of Address Bindings for the logical switch. This setting allows to provide bindings between IP address, mac Address and vlan.
- tag (Optional) A list of scope + tag pairs to associate with this logical switch.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing X can be imported into this resource, via the following command:

```
terraform import nsxt_logical_switch.switch1 UUID
```

The above command imports the logical switch named switch1 with the NSX id UUID.

» nsxt logical tier1 router

This resource provides a method for the management of a tier 1 logical router. A tier 1 logical router is often used for tenants, users and applications. There can be many tier 1 logical routers connected to a common tier 0 provider router.

» Example Usage

```
resource "nsxt_logical_tier1_router" "tier1_router" {
                              = "RTR1 provisioned by Terraform"
  description
  display_name
                              = "RTR1"
  failover_mode
                              = "PREEMPTIVE"
  edge_cluster_id
                              = "${data.nsxt_edge_cluster.edge_cluster.id}"
  enable_router_advertisement = true
  advertise_connected_routes = false
  advertise_static_routes
                              = true
  advertise nat routes
                              = true
 tag {
    scope = "color"
   tag = "blue"
}
```

» Argument Reference

- edge_cluster_id (Optional) Edge Cluster ID for the logical Tier1 router
- display name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description of the resource.
- tag (Optional) A list of scope + tag pairs to associate with this logical Tier1 router.

- failover_mode (Optional) This failover mode determines, whether the preferred service router instance for given logical router will preempt the peer. Note It can be specified if and only if logical router is ACTIVE_STANDBY and NON_PREEMPTIVE mode is supported only for a Tier1 logical router. For ACTIVE_ACTIVE logical routers, this field must not be populated
- enable_router_advertisement (Optional) Enable the router advertisement
- advertise_connected_routes (Optional) Enable the router advertisement for all NSX connected routes
- advertise_static_routes (Optional) Enable the router advertisement for static routes
- advertise_nat_routes (Optional) Enable the router advertisement for NAT routes

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical Tier1 router.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.
- advertise_config_revision Indicates current revision number of the advertisement configuration object as seen by NSX-T API server. This attribute can be useful for debugging.
- firewall_sections (Optional) The list of firewall sections for this router

» Importing

An existing logical tier1 router can be imported into this resource, via the following command:

terraform import nsxt_logical_tier1_router.tier1_router UUID

The above command imports the logical tier 1 router named ${\tt tier1_router}$ with the NSX id UUID.

» nsxt_nat_rule

This resource provides a means to configure a NAT rule in NSX. NAT provides network address translation between one IP address space and another IP address space. NAT rules can be destination NAT or source NAT rules.

» Example Usage

```
resource "nsxt nat rule" "rule1" {
  logical_router_id
                            = "${nsxt_logical_tier1_router.rtr1.id}"
  description
                            = "NR provisioned by Terraform"
 display_name
                            = "NR"
  action
                            = "SNAT"
  enabled
                            = true
 logging
                            = true
 nat_pass
                            = false
 translated_network
                            = "4.4.0.0/24"
 match_destination_network = "3.3.3.0/24"
                            = "5.5.5.0/24"
 match_source_network
  tag {
    scope = "color"
         = "blue"
}
```

» Argument Reference

- logical_router_id (Required) ID of the logical router.
- description (Optional) Description of this resource.
- display_name (Optional) The display name of this resource. Defaults to ID if not set.
- tag (Optional) A list of scope + tag pairs to associate with this NAT rule.
- action (Required) NAT rule action type. Valid actions are: SNAT, DNAT, NO_NAT and REFLEXIVE. All rules in a logical router are either stateless or stateful. Mix is not supported. SNAT and DNAT are stateful, and can NOT be supported when the logical router is running at active-active HA mode. The REFLEXIVE action is stateless. The NO_NAT action has no translated fields, only match fields.
- enabled (Optional) enable/disable the rule.
- logging (Optional) enable/disable the logging of rule.
- match_destination_network (Optional) IP Address | CIDR | (null implies Any).
- match_source_network (Optional) IP Address | CIDR | (null implies Any).
- nat_pass (Optional) Enable/disable to bypass following firewall stage. The default is true, meaning that the following firewall stage will be skipped. Please note, if action is NO NAT, then nat pass must be set

to true or omitted.

- translated_network (Optional) IP Address | IP Range | CIDR. For DNAT rules only a single ip is supported.
- translated_ports (Optional) port number or port range. DNAT only.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the nat rule.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.
- rule_priority The priority of the rule which is ascending, valid range [0-2147483647]. If multiple rules have the same priority, evaluation sequence is undefined.

» Importing

An existing NAT rule can be imported into this resource, via the following command:

```
terraform import nsxt_nat_rule.rule1 logical-router-uuid/nat-rule-num
```

The above command imports the NAT rule named rule1 with the number id nat-rule-num that belongs to the tier 1 logical router with the NSX id logical-router-uuid.

» nsxt ns group

This resource provides a method to create and manage a network and security (NS) group in NSX. A NS group is used to group other objects into collections for application of other settings.

```
resource "nsxt_ns_group" "group2" {
  description = "NG provisioned by Terraform"
  display_name = "NG"

member {
   target_type = "NSGroup"
   value = "${nsxt_ns_group.group1.id}"
}
```

```
membership_criteria {
   target_type = "LogicalPort"
   scope = "XXX"
   tag = "YYY"
}

tag {
   scope = "color"
   tag = "blue"
}
```

The following arguments are supported:

- description (Optional) Description of this resource.
- display_name (Optional) The display name of this resource. Defaults to ID if not set.
- tag (Optional) A list of scope + tag pairs to associate with this NS group.
- member (Optional) Reference to the direct/static members of the NS-Group. Can be ID based expressions only. VirtualMachine cannot be added as a static member. target_type can be: NSGroup, IPSet, Logical-Port, LogicalSwitch, MACSet
- membership_criteria (Optional) List of tag or ID expressions which define the membership criteria for this NSGroup. An object must satisfy at least one of these expressions to qualify as a member of this group.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the ns group.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing networking and security group can be imported into this resource, via the following command:

terraform import nsxt_ns_group.group2 UUID

The above command imports the networking and security group named group2 with the NSX id UUID.

» nsxt static route

This resource provides a means to configure static routes in NSX to determine where IP traffic is routed.

» Example Usage

```
resource "nsxt_static_route" "static_route" {
                = "SR provisioned by Terraform"
  description
                  = "SR"
 display_name
  logical_router_id = "${nsxt_logical_tier1_router.router1.id}"
 network
                   = "4.4.4.0/24"
 next_hop {
   ip address
                           = "8.0.0.10"
   administrative_distance = "1"
   logical_router_port_id = "${nsxt_logical_router_downlink_port.downlink_port.id}"
 }
  tag {
   scope = "color"
        = "blue"
    tag
}
```

» Argument Reference

- description (Optional) Description of this resource.
- display_name (Optional) The display name of this resource. Defaults to ID if not set.
- $\bullet\,$ tag (Optional) A list of scope + tag pairs to associate with this static route.
- logical_router_id (Optional) Logical router id.
- network (Required) CIDR.
- next_hop (Required) List of Next Hops, each with those arguments:
 - administrative_distance (Optional) Administrative Distance for the next hop IP.
 - ip_address (Optional) Next Hop IP.

 logical_router_port_id - (Optional) Reference of logical router port to be used for next hop.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the static_route.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.
- next hop additional arguments:
 - bfd_enabled Status of bfd for this next hop where bfd_enabled
 true indicate bfd is enabled for this next hop and bfd_enabled
 false indicate bfd peer is disabled or not configured for this next hop.
 - blackhole_action Action to be taken on matching packets for NULL routes.

» Importing

An existing static route can be imported into this resource, via the following command:

terraform import nsxt_static_route.static_route logical-router-uuid/static-route-num

The above command imports the static route named static_route with the number static-route-num that belongs to the tier 1 logical router with the NSX id logical-router-uuid.

» nsxt_vm_tags

This resource provides a means to configure tags that are applied to objects such as virtual machines. A virtual machine is not directly managed by NSX however, NSX allows attachment of tags to a virtual machine. This tagging enables tag based grouping of objects. Deletion of nsxt_vm_tags resource will remove all tags from the virtual machine and is equivalent to update operation with empty tag set.

```
resource "nsxt_vm_tags" "vm1_tags" {
  instance_id = "${vsphere_virtual_machine.vm1.id}"
  tag {
```

```
scope = "color"
tag = "blue"
}
```

The following arguments are supported:

- instance_id (Required) BIOS Id of the Virtual Machine.
- tag (Required) A list of scope + tag pairs to associate with this VM.

» Importing

An existing Tags collection can be imported into this resource, via the following command:

```
terraform import nsxt_vm_tags.vm1_tags id
```

The above would import NSX virtual machine tags as a resource named vm1_tags with the NSX id id, where id is external ID (not the BIOS id) of the virtual machine.

$\begin{tabular}{ll} \verb|w| & nsxt_algorithm_type_ns_service \\ \end{tabular}$

This resource provides a way to configure a networking and security service which can be used with the NSX firewall. A networking and security service is an object that contains the TCP/UDP algorithm, source ports and destination ports in a single entity.

}

» Argument Reference

The following arguments are supported:

- display_name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description.
- destination_port (Required) a single destination port.
- source_ports (Optional) Set of source ports/ranges.
- algorithm (Required) Algorithm one of "ORACLE_TNS", "FTP", "SUN_RPC_TCP", "SUN_RPC_UDP", "MS_RPC_TCP", "MS_RPC_UDP", "NBNS_BROADCAST", "NBDG_BROADCAST", "TFTP"
- tag (Optional) A list of scope + tag pairs to associate with this service.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- default_service The default NSServices are created in the system by default. These NSServices can't be modified/deleted.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing Algorithm type NS service can be imported into this resource, via the following command:

terraform import nsxt_algorithm_type_ns_service.ns_service_alg UUID

The above command imports the algorithm based networking and security service named ns_service_alg with the NSX id UUID.

» nsxt_ether_type_ns_service

This resource provides a way to configure a networking and security service which can be used within NSX. This specific service is for the layer 2 Ethernet protocol.

» Example Usage

```
resource "nsxt_ether_type_ns_service" "etns" {
  description = "S1 provisioned by Terraform"
  display_name = "S1"
  ether_type = "1536"

tag {
   scope = "color"
   tag = "blue"
  }
}
```

» Argument Reference

The following arguments are supported:

- display_name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description.
- ether_type (Required) Type of the encapsulated protocol.
- tag (Optional) A list of scope + tag pairs to associate with this service.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- default_service The default NSServices are created in the system by default. These NSServices can't be modified/deleted.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing Ethernet type NS service can be imported into this resource, via the following command:

```
terraform import nsxt_ether_type_ns_service.etns UUID
```

The above command imports the ethernet type networking and security service named etns with the NSX id UUID.

» nsxt_icmp_type_ns_service

This resource provides a way to configure a networking and security service which can be used within NSX. This specific service is for the ICMP protocol.

» Example Usage

```
resource "nsxt_icmp_type_ns_service" "ns_service_icmp" {
  description = "S1 provisioned by Terraform"
  display_name = "S1"
  protocol = "ICMPv4"
  icmp_type = "5"
  icmp_code = "1"

  tag {
    scope = "color"
    tag = "blue"
  }
}
```

» Argument Reference

The following arguments are supported:

- display_name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description.
- protocol (Required) Version of ICMP protocol ICMPv4 or ICMPv6.
- icmp_type (Optional) ICMP message type.
- icmp code (Optional) ICMP message code
- tag (Optional) A list of scope + tag pairs to associate with this service.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- default_service The default NSServices are created in the system by default. These NSServices can't be modified/deleted.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing ICMP type NS Service can be imported into this resource, via the following command:

```
terraform import nsxt_icmp_type_ns_service.x id
```

The above service imports the ICMP type network and security service named ${\tt x}$ with the NSX id id.

» nsxt_igmp_type_ns_service

This resource provides a way to configure a networking and security service which can be used within NSX. This specific service is for the IGMP protocol.

» Example Usage

```
resource "nsxt_igmp_type_ns_service" "ns_service_igmp" {
  description = "S1 provisioned by Terraform"
  display_name = "S1"

tag {
    scope = "color"
    tag = "blue"
  }
}
```

» Argument Reference

The following arguments are supported:

- display_name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description.
- tag (Optional) A list of scope + tag pairs to associate with this service.

» Attributes Reference

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- default_service The default NSServices are created in the system by default. These NSServices can't be modified/deleted.

• revision - Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing IGMP type NS Service can be imported into this resource, via the following command:

```
terraform import nsxt_igmp_type_ns_service.ns_service_igmp_UUID
```

The above command imports the IGMP based networking and security service named ns_service_igmp with the NSX id UUID.

» nsxt_ip_protocol_ns_service

This resource provides a way to configure a networking and security service which can be used within NSX. This specific service is for the IP protocol.

» Example Usage

```
resource "nsxt_ip_protocol_ns_service" "ns_service_ip" {
  description = "S1 provisioned by Terraform"
  display_name = "S1"
  protocol = "10"

tag {
    scope = "color"
    tag = "blue"
  }
}
```

» Argument Reference

- display_name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description.
- protocol (Required) IP protocol number (0-255)
- tag (Optional) A list of scope + tag pairs to associate with this service.

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- default_service The default NSServices are created in the system by default. These NSServices can't be modified/deleted.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing IP protocol NS service can be imported into this resource, via the following command:

```
terraform import nsxt_ip_protocol_ns_service.ns_service_ip UUID
```

The above command imports the IP protocol based networking and security service named ns_service_ip with the NSX id UUID.

» nsxt_l4_port_set_ns_service

This resource provides a way to configure a networking and security service which can be used within NSX. This specific service is for configuration of layer 4 ports.

» Example Usage

» Argument Reference

- display_name (Optional) Display name, defaults to ID if not set.
- description (Optional) Description of this resource.
- destination_ports (Optional) Set of destination ports.
- source_ports (Optional) Set of source ports.
- protocol (Optional) VL4 protocol
- tag (Optional) A list of scope + tag pairs to associate with this service.

In addition to arguments listed above, the following attributes are exported:

- id ID of the logical switch.
- default_service The default NSServices are created in the system by default. These NSServices can't be modified/deleted.
- revision Indicates current revision number of the object as seen by NSX-T API server. This attribute can be useful for debugging.

» Importing

An existing L4 port set NS service can be imported into this resource, via the following command:

terraform import nsxt_14_port_set_ns_service.ns_service_14 UUID

The above command imports the layer 4 port based networking and security service named ns_service_14 with the NSX id UUID.