

```

{
  "name": "DXL_RPZ/Tunnel_Event",
  "version": "3.0",
  "type": "DXL_EVENT",
  "event_type": [
    "RPZ",
    "TUNNEL"
  ],
  "vendor_identifier": "McAfee",
  "dxl_topic": "/open/threat/v1/infoblox",
  "quoting": "ASIS",
  "instance_variables": [
    {
      "name": "DXL_MessageFormat",
      "type": "STRING"
    }
  ],
  "steps": [
    {
      "name": "Debug#0",
      "operation": "NOP",
      "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"}
    },
    {
      "name": "init_internal_data",
      "operation": "VARIABLEOP",
      "variable_ops": [
        {
          "operation": "ASSIGN",
          "type": "DICTIONARY",
          "destination": "L:internal",
          "keys": [
            "analyzer_ipv4",
            "analyzer_ipv6",
            "source_ipv4",
            "source_ipv6",
            "target_ipv4",
            "target_ipv6",
            "severity"
          ]
        }
      ],
    }
  ],

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        "values": [
            "",
            "",
            "",
            "",
            "",
            "",
            "",
            ""
        ]
    },
    {
        "name": "Debug#1",
        "operation": "NOP",
        "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"}
    },
    {
        "name": "is_analyzer_ipv4",
        "operation": "CONDITION",
        "condition": {
            "statements": [
                {
                    "left": "${E::member_ip}",
                    "op": "!~",
                    "right": ""
                }
            ],
            "condition_type": "AND",
            "eval": "${XC:COPY:{L:internal{analyzer_ipv4}}:
{E:member_ip}}",
            "else_eval": "${XC:COPY:{L:internal{analyzer_ipv6}}:
{E:member_ip}}"}
    },
    {
        "name": "Debug#2",
        "operation": "NOP",
        "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:

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{UT:}}${XC:DEBUG:{R:}}"
    },
    {
        "name": "is_source_ipv4",
        "operation": "CONDITION",
        "condition": {
            "statements": [
                {
                    "left": "${E::source_ip}",
                    "op": "!~",
                    "right": ":"
                }
            ],
            "condition_type": "AND",
            "eval": "${XC:COPY:{L:internal{source_ipv4}}:
{E:source_ip}}${XC:ASSIGN:{L:IPv}:{I:4}}",
            "else_eval": "${XC:COPY:{L:internal{source_ipv6}}:
{E:source_ip}}${XC:ASSIGN:{L:IPv}:{I:6}}"
        }
    },
    {
        "name": "Debug#3",
        "operation": "NOP",
        "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
    },
    {
        "name": "check rpz or tunnel to assign destination_ip",
        "operation": "CONDITION",
        "condition": {
            "statements": [
                {
                    "left": "${E::event_type}",
                    "op": "==",
                    "right": "TUNNEL"
                }
            ],
            "condition_type": "AND",
            "next": "is_target_ipv4 for TUNNEL"
        }
    }
},

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{
  "name": "Debug#a",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "is_target_ipv4 for RPZ",
  "operation": "CONDITION",
  "condition": {
    "statements": [
      {
        "left": "${E::destination_ip}",
        "op": "!~",
        "right": ":"
      }
    ],
    "condition_type": "AND",
    "eval": "${XC:COPY:{L:internal{target_ipv4}}:{E:destination_ip}}",
    "else_eval": "${XC:COPY:{L:internal{target_ipv6}}:
{E:destination_ip}}",
    "next": "check if rpz or tunnel event for severity",
    "else_next": "check if rpz or tunnel event for severity"
  }
},
{
  "name": "Debug#b",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "is_target_ipv4 for TUNNEL",
  "operation": "CONDITION",
  "condition": {
    "statements": [
      {
        "left": "${E::source_ip}",
        "op": "!~",
        "right": ":"
      }
    ]
  }
}

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    }
  ],
  "condition_type": "AND",
  "eval": "${XC:COPYY:{L:internal{target_ipv4}}:{E:source_ip}}",
  "else_eval": "${XC:COPYY:{L:internal{target_ipv6}}:
{E:source_ip}}"
}
},
{
  "name": "Debug#4",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "check if rpz or tunnel event for severity",
  "operation": "CONDITION",
  "condition": {
    "statements": [
      {
        "left": "${E::event_type}",
        "op": "!=",
        "right": "TUNNEL"
      }
    ],
    "condition_type": "AND",
    "eval": "${XC:COPYY:{L:rpz_severity}}:{E:rpz_severity}}",
    "next": "is_severity_7"
  }
},
{
  "name": "Debug#4.1",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "Get RPZ tunnel event",
  "operation": "GET",
  "transport": {

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        "path": "record:rpz:cname?name~/${E:A:domain_name}
&_return_fields=rp_zone"
    },
    "wapi": "v2.7"
},
{
    "name": "Debug#4.2",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
    "name": "Get RPZ tunnel event severity",
    "operation": "GET",
    "transport": {
        "path": "zone_rp?fqdn=${P:A:PARSE[0]{rp_zone}}
&_return_fields=rpz_severity"
    },
    "wapi": "v2.7"
},
{
    "name": "Debug#4.3",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
    "name": "assign tunneling severity level",
    "operation": "CONDITION",
    "condition": {
        "statements": [
            {
                "left": "${E::event_type}",
                "op": "==",
                "right": "TUNNEL"
            }
        ],
        "condition_type": "AND",
        "eval": "${XC:COPY:{L:rpz_severity}:{P:PARSE[0]
{rpz_severity}}}",
        "next": "is_severity_7"
    }
}

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    }
  },
  {
    "name": "Debug#c",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"}
  },
  {
    "name": "is_severity_7",
    "operation": "CONDITION",
    "condition": {
      "statements": [
        {
          "left": "${L::rpz_severity}",
          "op": "==",
          "right": "INFORMATIONAL"
        }
      ],
      "condition_type": "AND",
      "eval": "${XC:ASSIGN:{L:internal{severity}}:{I:7}}",
      "next": "severity_found"
    }
  },
  {
    "name": "Debug#5",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"}
  },
  {
    "name": "is_severity_4",
    "operation": "CONDITION",
    "condition": {
      "statements": [
        {
          "left": "${L::rpz_severity}",
          "op": "==",
          "right": "WARNING"
        }
      ]
    }
  }

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    ],
    "condition_type": "AND",
    "eval": "${XC:ASSIGN:{L:internal{severity}}:{I:4}}",
    "next": "severity_found"
  }
},
{
  "name": "Debug#6",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "is_severity_2",
  "operation": "CONDITION",
  "condition": {
    "statements": [
      {
        "left": "${L::rpz_severity}",
        "op": "==",
        "right": "MAJOR"
      }
    ],
    "condition_type": "AND",
    "eval": "${XC:ASSIGN:{L:internal{severity}}:{I:2}}",
    "next": "severity_found"
  }
},
{
  "name": "Debug#7",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "is_severity_1",
  "operation": "CONDITION",
  "condition": {
    "statements": [
      {

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        "left": "${L::rpz_severity}",
        "op": "==",
        "right": "CRITICAL"
    }
],
"condition_type": "AND",
"eval": "${XC:ASSIGN:{L:internal{severity}}:{I:1}}"
}
},
{
    "name": "Debug#8",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
    "name": "severity_found",
    "operation": "NOP",
    "body": ""
},
{
    "name": "Debug#9",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
    "name": "check rpz or tunnel for source_port",
    "operation": "CONDITION",
    "condition": {
        "statements": [
            {
                "left": "${E::event_type}",
                "op": "==",
                "right": "RPZ"
            }
        ]
    },
    "condition_type": "AND",
    "eval": "${XC:COPY:{L:source_port}:{E:source_port}}",
    "else_eval": "${XC:ASSIGN:{L:source_port}:{I:00000}}"
}

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    }
  },
  {
    "name": "Debug#d",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
  },
  {
    "name": "check rpz or tunnel for threat type",
    "operation": "CONDITION",
    "condition": {
      "statements": [
        {
          "left": "${E::event_type}",
          "op": "==",
          "right": "RPZ"
        }
      ],
      "condition_type": "AND",
      "eval": "${XC:COPY:{L:rpz_type}:{E:rpz_type}}",
      "else_eval": "${XC:COPY:{L:rpz_type}:{E:event_type}}"
    }
  },
  {
    "name": "Debug#e",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
  },
  {
    "name": "set threatName ruleName DetectedUTC",
    "operation": "CONDITION",
    "condition": {
      "statements": [
        {
          "left": "${E::event_type}",
          "op": "==",
          "right": "RPZ"
        }
      ]
    }
  }

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    ],
    "condition_type": "AND",
    "eval": "${XC:COPY:{L:ruleName}:
{E:rule_name}}${XC:FORMAT:TRUNCATE:{L:ruleName}:
{-128f}}${XC:COPY:{L:threatName}:
{E:query_name}}${XC:FORMAT:TRUNCATE:{L:threatName}:
{-128f}}${XC:COPY:{L:DetectedUTC}:{E:timestamp}}${XC:ASSIGN:
{L:Obj_ref}:{S:}}${XC:ASSIGN:{L:network_view}:{S:default}}",
    "else_eval": "${XC:COPY:{L:ruleName}:
{E:domain_name}}${XC:FORMAT:TRUNCATE:{L:ruleName}:
{-128f}}${XC:COPY:{L:threatName}:
{E:domain_name}}${XC:FORMAT:TRUNCATE:{L:threatName}:
{-128f}}${XC:COPY:{L:DetectedUTC}:{E:timestamp}}${XC:ASSIGN:
{L:Obj_ref}:{S:}}${XC:ASSIGN:{L:network_view}:{S:default}}"
    }
  },
  {
    "name": "Debug#10",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
  },
  {
    "name": "set threatActionTaken threatHandled",
    "operation": "CONDITION",
    "condition": {
      "statements": [
        {
          "left": "${E::rpz_policy}",
          "op": "==",
          "right": "PASSTHRU"
        }
      ]
    },
    "condition_type": "AND",
    "eval": "${XC:ASSIGN:{L:threatActionTaken}:{S:}}${XC:ASSIGN:
{L:threatHandled}:{I:0}}",
    "else_eval": "${XC:ASSIGN:{L:threatActionTaken}:
{S:block}}${XC:ASSIGN:{L:threatHandled}:{I:1}}"
  }
},
{

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    "name": "Debug#11",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
  },
  {
    "name": "check GUID",
    "operation": "CONDITION",
    "condition": {
      "condition_type": "OR",
      "statements": [
        {
          "left": "${E:A:ip.extattrs{ePO_GUID}}",
          "op": "==",
          "right": ""
        }
      ],
      "eval": "${XC:COPY:{L:GUID}:{UT:UUID}}${XC:ASSIGN:
{L:GUIDtype}:{S:generated}}",
      "else_eval": "${XC:COPY:{L:GUID}:
{E:ip.extattrs{ePO_GUID}}}${XC:ASSIGN:{L:GUIDtype}:{S:local}}"
    }
  },
  {
    "name": "Debug#12",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
  },
  {
    "name": "jump if have GUID or no WAPI credentials",
    "operation": "CONDITION",
    "condition": {
      "condition_type": "OR",
      "statements": [
        {
          "left": "${L:A:GUIDtype}",
          "op": "==",
          "right": "local"
        }
      ],
    }
  },

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        {
            "left": "${UT:A:WAPIUSERNAME}",
            "op": "==",
            "right": ""
        }
    ],
    "next": "CheckEventTypeForEventId"
}
},
{
    "name": "CheckEventTypeForEventId",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${E::event_type}",
                "op": "==",
                "right": "TUNNEL"
            }
        ],
        "eval": "${XC:ASSIGN:{L:eventID}:{S:204151}}",
        "else_eval": "${XC:ASSIGN:{L:eventID}:{S:204150}}"
    }
},
{
    "name": "Debug#13",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
    "name": "check IPv6",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "OR",
        "statements": [
            {
                "left": "${L:A:IPv}",
                "op": "==",
                "right": "6"
            }
        ]
    }
}

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    }
  ],
  "next": "Get IPv6Fixed _ref"
}
},
{
  "name": "Debug#14",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "Get IPv4Fixed _ref",
  "operation": "GET",
  "transport": {
    "path": "fixedaddress?ipv4addr=${E:U:source_ip}
&network_view=${L:U:network_view}&_return_fields=extattrs"
  },
  "wapi": "v2.7"
},
{
  "name": "Debug#15",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "operation": "CONDITION",
  "name": "wapi_response_getIPv4Fix_ref",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P:A:PARSE[0]{_ref}}",
        "op": "!=",
        "right": ""
      }
    ]
  },
  "next": "Get_Objref"
}

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    },
    {
        "name": "Debug#16",
        "operation": "NOP",
        "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"}
    },
    {
        "name": "Get HostIPv4 _ref",
        "operation": "GET",
        "transport": {
            "path": "record:host?ipv4addr=${E:U:source_ip}&network_view=
${L:U:network_view}&_return_fields=extattrs"
        },
        "wapi": "v2.7"
    },
    {
        "name": "Debug#17",
        "operation": "NOP",
        "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"}
    },
    {
        "operation": "CONDITION",
        "name": "wapi_response_getIPv4Host_ref",
        "condition": {
            "condition_type": "AND",
            "statements": [
                {
                    "left": "${P:A:PARSE[0]{_ref}}",
                    "op": "!=",
                    "right": ""
                }
            ],
            "next": "Get_Objref"
        }
    },
    {
        "name": "Debug#18",
        "operation": "NOP",

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    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
  },
  {
    "name": "IPv4 object was not found",
    "operation": "CONDITION",
    "condition": {
      "condition_type": "OR",
      "statements": [
        {
          "left": "1",
          "op": "==",
          "right": "1"
        }
      ],
      "next": "GET Lease data"
    }
  },
  {
    "name": "Debug#19",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
  },
  {
    "name": "Get IPv6Fixed _ref",
    "operation": "GET",
    "transport": {
      "path": "ipv6fixedaddress?ipv6addr=${E:U:source_ip}
&network_view=${L:U:network_view}&_return_fields=extattrs"
    },
    "wapi": "v2.7"
  },
  {
    "name": "Debug#20",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
  },

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{
  "operation": "CONDITION",
  "name": "wapi_response_getIPv6Fix_ref",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P:A:PARSE[0]{_ref}}",
        "op": "!=",
        "right": ""
      }
    ],
    "next": "Get_Objref"
  }
},
{
  "name": "Debug#21",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "Get HostIPv6 _ref",
  "operation": "GET",
  "transport": {
    "path": "record:host?ipv6addr=${E:U:source_ip}&network_view=
${L:U:network_view}&_return_fields=extattrs"
  },
  "wapi": "v2.7"
},
{
  "name": "Debug#22",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "operation": "CONDITION",
  "name": "wapi_response_getIPv6Host_ref",
  "condition": {

```

```

    "condition_type": "AND",
    "statements": [
      {
        "left": "${P:A:PARSE[0]{_ref}}",
        "op": "!=",
        "right": ""
      }
    ],
    "next": "Get_Objref"
  }
},
{
  "name": "Debug#23",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "Get_Objref",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P:A:PARSE[0]{_ref}}",
        "op": "!=",
        "right": ""
      }
    ],
    "eval": "${XC:COPY:{L:Obj_ref}:{P:PARSE[0]{_ref}}}"
  }
},
{
  "name": "Debug#24",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "jump if no Obj_ref",

```

```

"operation": "CONDITION",
"condition": {
  "condition_type": "OR",
  "statements": [
    {
      "left": "${L:A:Obj_ref}",
      "op": "==",
      "right": ""
    }
  ],
  "next": "GET Lease data"
}
},
{
  "name": "Debug#25",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "Update GUID",
  "operation": "PUT",
  "transport": {
    "path": "${L:A:Obj_ref}"
  },
  "wapi": "v2.7",
  "wapi_quoting": "JSON",
  "body_list": [
    {"extattrs+\": {\"ePO_GUID\": { \"value\": \"${L:A:GUID}\"},
\"DXL_LastEventSentAt\": { \"value\": \"${E:A:timestamp}\"}}}"
  ]
},
{
  "name": "Debug#26",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "GET Lease data",

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    "operation": "GET",
    "transport": {
      "path": "lease?address=${E::source_ip}&_return_fields=address
,client_hostname,ipv6_duid,binding_state,cltt,ends,fingerprint,hardware,ip
v6_prefix_bits,is_invalid_mac,network,network_view,never_ends,never_st
arts,protocol,served_by,server_host_name,starts,tstp,variable"ç      ÔÊ
      "wapi": "v2.7"
    },
  },
  {
    "name": "Check if lease exists",
    "operation": "CONDITION",
    "condition": {
      "condition_type": "AND",
      "statements": [
        {
          "left": "${P::PARSE[0]}",
          "op": "==",
          "right": ""
        }
      ],
      "next": "set variables to nothing because there is no lease"
    }
  },
  {
    "name": "Debug#43",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
  },
  {
    "name": "set Lease vars",
    "operation": "NOP",
    "body_list": [
      "${XC:COPY:{L:address}:{P:PARSE[0]{address}}}",
      "${XC:COPY:{L:binding_state}:{P:PARSE[0]{binding_state}}}",
      "${XC:COPY:{L:cltt}:{P:PARSE[0]{cltt}}}",
      "${XC:COPY:{L:ends}:{P:PARSE[0]{ends}}}",
      "${XC:COPY:{L:fingerprint}:{P:PARSE[0]{fingerprint}}}",
      "${XC:COPY:{L:hardware}:{P:PARSE[0]{hardware}}}",
      "${XC:COPY:{L:ipv6_prefix_bits}:{P:PARSE[0]
{ipv6_prefix_bits}}}",
      "${XC:COPY:{L:is_invalid_mac}:{P:PARSE[0]

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{is_invalid_mac}}}",
    "${XC:COPY:{L:network}:{P:PARSE[0]{network}}}",
    "${XC:COPY:{L:network_view}:{P:PARSE[0]{network_view}}}",
    "${XC:COPY:{L:never_ends}:{P:PARSE[0]{never_ends}}}",
    "${XC:COPY:{L:never_starts}:{P:PARSE[0]{never_starts}}}",
    "${XC:COPY:{L:protocol}:{P:PARSE[0]{protocol}}}",
    "${XC:COPY:{L:served_by}:{P:PARSE[0]{served_by}}}",
    "${XC:COPY:{L:server_host_name}:{P:PARSE[0]
{server_host_name}}}",
    "${XC:COPY:{L:starts}:{P:PARSE[0]{starts}}}",
    "${XC:COPY:{L:variable}:{P:PARSE[0]{variable}}}"
]
},
{
"name": "Check client_hostname",
"operation": "CONDITION",
"condition": {
"condition_type": "AND",
"statements": [
{
"left": "${P::PARSE[0]{client_hostname}}",
"op": "!=",
"right": ""
}
],
"eval": "${XC:COPY:{L:client_hostname}:{P:PARSE[0]
{client_hostname}}}",
"else_eval": "${XC:ASSIGN:{L:client_hostname}:{S:}}"
}
},
{
"name": "Check ipv6_duid",
"operation": "CONDITION",
"condition": {
"condition_type": "AND",
"statements": [
{
"left": "${P::PARSE[0]{ipv6_duid}}",
"op": "!=",
"right": ""
}
],

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    "eval": "${XC:COPY:{L:ipv6_duid}:{P:PARSE[0]{ipv6_duid}}}",
    "else_eval": "${XC:ASSIGN:{L:ipv6_duid}:{S:}}"
  }
},
{
  "name": "skip to checking message type",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "1",
        "op": "==",
        "right": "1"
      }
    ],
    "next": "check DXL_MessageFormat"
  }
},
{
  "name": "set variables to nothing because there is no lease",
  "operation": "NOP",
  "body_list": [
    "${XC:ASSIGN:{L:address}:{S:}}",
    "${XC:ASSIGN:{L:binding_state}:{S:}}",
    "${XC:ASSIGN:{L:cltt}:{S:}}",
    "${XC:ASSIGN:{L:ends}:{S:}}",
    "${XC:ASSIGN:{L:fingerprint}:{S:}}",
    "${XC:ASSIGN:{L:hardware}:{S:}}",
    "${XC:ASSIGN:{L:ipv6_prefix_bits}:{S:}}",
    "${XC:ASSIGN:{L:is_invalid_mac}:{S:}}",
    "${XC:ASSIGN:{L:network}:{S:}}",
    "${XC:ASSIGN:{L:network_view}:{S:}}",
    "${XC:ASSIGN:{L:never_ends}:{S:}}",
    "${XC:ASSIGN:{L:never_starts}:{S:}}",
    "${XC:ASSIGN:{L:protocol}:{S:}}",
    "${XC:ASSIGN:{L:served_by}:{S:}}",
    "${XC:ASSIGN:{L:server_host_name}:{S:}}",
    "${XC:ASSIGN:{L:starts}:{S:}}",
    "${XC:ASSIGN:{L:variable}:{S:}}",
    "${XC:ASSIGN:{L:client_hostname}:{S:}}",
    "${XC:ASSIGN:{L:ipv6_duid}:{S:}}"
  ]
}

```

```

]
},
{
  "name": "check DXL_MessageFormat",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${I::DXL_MessageFormat}",
        "op": "==",
        "right": "CEF"
      }
    ],
    "next": "send_CEF"
  }
},
{
  "name": "Debug#27",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "send_OpenDXL",
  "operation": "DXL_SEND_EVENT",
  "body_list": [
    "{",
    " \"eventMsgType\": \"Infoblox Security Event\",",
    " \"eventMsgVersion\": \"1.0\",",
    " \"event\":",
    " {",
    "  \"category\": \"RPZ\",",
    "  \"eventDesc\": \"DNS RPZ event\",",
    "  \"eventId\": \"${L::eventID}\",",
    "  \"threatActionTaken\": \"${L::threatActionTaken}\",",
    "  \"threatHandled\": ${L::threatHandled},",
    "  \"threatName\": \"bad domain: ${L::threatName}\",",
    "  \"threatSeverity\": ${L::internal{severity}},",
    "  \"threatType\": \"${L::rpz_type}\",",
    "  \"analyzer\":",

```

```
"  {"  
"    \"id\": \"S_INFBLX0802\",",  
"    \"version\": \"8.2.1\",",  
"    \"name\": \"NIOS\",",  
"    \"detectionMethod\": \"RPZ\",",  
"    \"hostName\": \"${E::member_name}\",",  
"    \"detectedUTC\": \"${E::timestamp}\",",  
"    \"ipv4\": \"${L::internal{analyzer_ipv4}}\",",  
"    \"ipv6\": \"${L::internal{analyzer_ipv6}}\",",  
"  },",  
"  \"entity\":",  
"  {"  
"    \"ruleName\": \"${L::ruleName}\",",  
"    \"id\": \"${L::GUID}\",",  
"    \"groupName\": \"\",",  
"    \"osPlatform\": \"\",",  
"    \"osType\": \"\",",  
"    \"type\": \"\",",  
"    \"address\": \"${L::address}\",",  
"    \"binding_state\": \"${L::binding_state}\",",  
"    \"cltt\": \"${L::cltt}\",",  
"    \"ends\": \"${L::ends}\",",  
"    \"fingerprint\": \"${L::fingerprint}\",",  
"    \"hardware\": \"${L::hardware}\",",  
"    \"ipv6_prefix_bits\": \"${L::ipv6_prefix_bits}\",",  
"    \"is_invalid_mac\": \"${L::is_invalid_mac}\",",  
"    \"network\": \"${L::network}\",",  
"    \"network_view\": \"${L::network_view}\",",  
"    \"never_ends\": \"${L::never_ends}\",",  
"    \"never_starts\": \"${L::never_starts}\",",  
"    \"protocol\": \"${L::protocol}\",",  
"    \"served_by\": \"${L::served_by}\",",  
"    \"server_host_name\": \"${L::server_host_name}\",",  
"    \"starts\": \"${L::starts}\",",  
"    \"variable\": \"${L::variable}\",",  
"    \"client_hostname\": \"${L::client_hostname}\",",  
"    \"ipv6_duid\": \"${L::ipv6_duid}\",",  
"    \"sessionID\": \"\",",  
"  },",  
"  \"source\":",  
"  {"  
"    \"ipv4\": \"${L::internal{source_ipv4}}\",",
```

```

    "  \"ipv6\": \"${L::internal{source_ipv6}}\",",
    "  \"port\": \"${L::source_port}\",
    "  },",
    "  \"target\":",
    "  {",
    "    \"ipv4\": \"${L::internal{target_ipv4}}\",",
    "    \"ipv6\": \"${L::internal{target_ipv6}}\",",
    "    \"port\": 53",
    "  }",
    " }",
    ""
  ],
  "dxl_topic": "/open/threat/v1/${E::event_type}/infoblox"
},
{
  "name": "Debug#28",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
},
{
  "name": "goFin",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "OR",
    "statements": [
      {
        "left": "1",
        "op": "==",
        "right": "1"
      }
    ],
    "next": "Fin"
  }
},
{
  "name": "Debug#29",
  "operation": "NOP",
  "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"

```

```
},
{
  "name": "send_CEF",
  "operation": "DXL_SEND_EVENT",
  "body_list": [
    {"DXLCommonEvent": {"
      "AgentGUID": "${L::GUID}",
      "Analyzer":
        "${L::internal{analyzer_ipv4}}${L::internal{analyzer_ipv6}}",
      "AnalyzerDATVersion": "",
      "AnalyzerDetectionMethod": "RPZ",
      "AnalyzerHostName": "${E::member_name}",
      "AnalyzerIPV4": "${L::internal{analyzer_ipv4}}",
      "AnalyzerIPV6": "${L::internal{analyzer_ipv6}}",
      "AnalyzerMAC": "",
      "AnalyzerName": "NIOS",
      "AnalyzerVersion": "8.2.1",
      "DetectedUTC": "${L::DetectedUTC}",
      "ServerID":
        "${L::internal{analyzer_ipv4}}${L::internal{analyzer_ipv6}}",
      "SourceIPV4": "${L::internal{source_ipv4}}",
      "SourceIPV6": "${L::internal{source_ipv6}}",
      "SourceMAC": "",
      "SourcePort": "${L::source_port}",
      "SourceProcessName": "",
      "SourceURL": "",
      "SourceUserName": "",
      "TargetFileName": "",
      "TargetHostName": "${E::member_name}",
      "TargetIPV4": "${L::internal{analyzer_ipv4}}",
      "TargetIPV6": "${L::internal{analyzer_ipv6}}",
      "TargetPort": "53",
      "TargetProcessName": "",
      "TargetProtocol": "dns",
      "TargetUserName": "",
      "ThreatActionTaken": "${L::threatActionTaken}",
      "ThreatCategory": "RPZ",
      "ThreatEventID": "${L::eventID}",
      "ThreatHandled": "${L::threatHandled}",
      "ThreatName": "bad domain: ${L::threatName}",
      "ThreatSeverity": "${L::internal{severity}}",
      "ThreatType": "${L::rpz_type}",
```

```
"address\": \"${L::address}\"",
"binding_state\": \"${L::binding_state}\"",
"cltt\": \"${L::cltt}\"",
"ends\": \"${L::ends}\"",
"fingerprint\": \"${L::fingerprint}\"",
"hardware\": \"${L::hardware}\"",
"ipv6_prefix_bits\": \"${L::ipv6_prefix_bits}\"",
"is_invalid_mac\": \"${L::is_invalid_mac}\"",
"network\": \"${L::network}\"",
"network_view\": \"${L::network_view}\"",
"never_ends\": \"${L::never_ends}\"",
"never_starts\": \"${L::never_starts}\"",
"protocol\": \"${L::protocol}\"",
"served_by\": \"${L::served_by}\"",
"server_host_name\": \"${L::server_host_name}\"",
"starts\": \"${L::starts}\"",
"variable\": \"${L::variable}\"",
"client_hostname\": \"${L::client_hostname}\"",
"ipv6_duid\": \"${L::ipv6_duid}\"",
}}"
```

```
],
```

```
"dxi_topic": "/infoblox/outbound/${E::event_type}"
```

```
},
```

```
{
```

```
"name": "Debug#30",
```

```
"operation": "NOP",
```

```
"body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
```

```
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
```

```
},
```

```
{
```

```
"name": "Fin",
```

```
"operation": "NOP",
```

```
"body": ""
```

```
},
```

```
{
```

```
"name": "Debug#31",
```

```
"operation": "NOP",
```

```
"body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
```

```
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}${XC:DEBUG:{R:}}"
```

```
}
```

} 1