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{
  "version": "3.0",
  "name": "ServiceNow_Security_Events",
  "comment": "Create an incident by a DNS security events",
  "type": "REST_EVENT",
  "event_type": [
    "RPZ",
    "TUNNEL"
  ],
  "action_type": "Incidents",
  "content_type": "application/json",
  "vendor_identifier": "ServiceNow",
  "quoting": "XMLA",
  "instance_variables": [
    {
      "name": "Severity",
      "type": "INT",
      "value": "3"
    }
  ],
  "steps": [
    {
      "name": "assignTimeValue",
      "operation": "NOP",
      "body_list": [
        "${XC:COPY:{L:ServiceNowAddDate}:
{UT:TIME}}${XC:FORMAT:TRUNCATE:{L:ServiceNowAddDate}:{10t}}"
      ]
    },
    {
      "name": "check for IPv6",
      "operation": "CONDITION",
      "condition": {
        "statements": [
          {
            "left": "${E::source_ip}",
            "op": "=~",
            "right": ":"
          }
        ]
      },
      "condition_type": "AND",
      "next": "Get IPv6Fixed _ref"
    }
  ]
}

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    }
  },
  {
    "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=${E:U:source_ip}
&network_view=default&_return_fields=extattrs"
    },
    "wapi": "v2.7"
  },
  {
    "name": "Debug#15",
    "operation": "NOP",
    "body": "${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"
  }
},
{
  "name": "Debug#16",

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    "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=${E:U:source_ip}
&network_view=default&_return_fields=extattrs"
    },
    "wapi": "v2.7"
  },
  {
    "name": "Debug#17",
    "operation": "NOP",
    "body": "${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",
      "else_stop": true
    }
  },
  {
    "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:

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{UT:}}${XC:DEBUG:{R:}}"
  },
  {
    "name": "Get IPv6Fixed _ref",
    "operation": "GET",
    "transport": {
      "path": "ipv6fixedaddress?ipv6addr=${E:U:source_ip}
&network_view=default&_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:}}"
  },
  {
    "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",

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    "operation": "GET",
    "transport": {
        "path": "record:host?ipv6addr=${E:U:source_ip}
&network_view=default&_return_fields=extattrs"
    },
    "wapi": "v2.7"
},
{
    "name": "Debug#22",
    "operation": "NOP",
    "body": "${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": [

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    {
      "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": "Assign location variable",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "OR",
    "statements": [
      {
        "left": "${P:A:PARSE[0]{extattrs}{ServiceNow_Location}
{value}}",
        "op": "==",
        "right": ""
      }
    ],
    "eval": "${XC:ASSIGN:{L:Location}:{S:Unknown}}",
    "else_eval": "${XC:COPY:{L:Location}:{P:PARSE[0]{extattrs}
{ServiceNow_Location}{value}}}"
  }
},
{
  "name": "jump if no Obj_ref",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "OR",
    "statements": [
      {
        "left": "${L:A:Obj_ref}",

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        "op": "==",
        "right": ""
    }
],
"next": "check rpz or tunnel to assign query name"
}
},
{
    "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": "stop if no extattrs",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "OR",
        "statements": [
            {
                "left": "${P:A:PARSE[0]{extattrs}
{ServiceNow_Add_Incident}{value}}",
                "op": "==",
                "right": ""
            }
        ],
        "stop": true
    }
},
{
    "name": "assignRecordValues",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "OR",
        "statements": [
            {
                "left": "${P:A:PARSE[0]{extattrs}
{ServiceNow_LastIncidentSentAt}{value}}",
                "op": "==",
                "right": ""
            }
        ]
    }
}
}
}

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    ],
    "eval": "${XC:ASSIGN:{L:ServiceNowAddDateRecorded}:
{S:NONE}}",
    "else_eval": "${XC:COPY:{L:ServiceNowAddDateRecorded}:
{P:PARSE[0]{extattrs}{ServiceNow_LastIncidentSentAt}
{value}}}${XC:FORMAT:TRUNCATE:{L:ServiceNowAddDateRecorded}:
{10t}}"
  }
},
{
  "name": "check If Scan Happened today",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "OR",
    "statements": [
      {
        "left": "${P:A:PARSE[0]{extattrs}
{ServiceNow_Add_Incident}{value}}",
        "op": "==",
        "right": "false"
      },
      {
        "left": "${L:A:ServiceNowAddDateRecorded}",
        "op": "==",
        "right": "${L:A:ServiceNowAddDate}"
      }
    ]
  },
  "stop": true
}
},
{
  "name": "check rpz or tunnel to assign query name",
  "operation": "CONDITION",
  "condition": {
    "statements": [
      {
        "left": "${E::event_type}",
        "op": "==",
        "right": "RPZ"
      }
    ]
  },
  "condition_type": "AND",

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    "eval": "${XC:COPY:{L:query_name}:{E:query_name}}",
    "else_eval": "${XC:COPY:{L:query_name}:{E:domain_name}}"}
  },
  {
    "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": "set threatActionTaken threatHandled",
    "operation": "CONDITION",
    "condition": {
      "statements": [
        {
          "left": "${E::rpz_policy}",
          "op": "==",
          "right": "PASSTHRU"
        }
      ],
      "condition_type": "AND",
      "eval": "${XC:ASSIGN:{L:threatActionTaken}:{S:Recorded}}",
      "else_eval": "${XC:ASSIGN:{L:threatActionTaken}:{S:Blocked}}"}
  },
  {
    "name": "Create an incident",
    "operation": "POST",
    "parse": "JSON",
    "transport": {
      "path": "/api/now/v2/table/incident"
    },
    "body_list": [
      "{",
      "\"category\": \"Network Security\",",
      "\"subcategory\": \"DNS ${E:A:event_type}\",",
      "\"description\": \"Client ${E:A:source_ip} accessed restricted
domain ${L:A:query_name} and this was ${L:A:threatActionTaken} by
Infoblox appliance with IP:${E:A:member_ip}\",",
      "\"short_description\": \"Client ${E:A:source_ip} accessed

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restricted domain ${L:A:query_name} and this was
${L:A:threatActionTaken} by Infoblox appliance with IP:
${E:A:member_ip}\",",
    "\"severity\": \"${I:A:Severity}\"",
    "\"u_Location\": \"${L:A:Location}\"",
    "\"sys_created_by\": \"NIO Outbound API\"",
    "\""
]
},
{
    "name": "Debug",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{R:}}${XC:DEBUG:{RH:}}${XC:DEBUG:{UT:}}"
},
{
    "name": "Incident creation error check",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${R:A:RC}",
                "op": "!=",
                "right": "201"
            }
        ],
        "error": true
    }
},
{
    "name": "Get the incident",
    "operation": "GET",
    "parse": "JSON",
    "transport": {
        "path": "/api/now/v2/table/incident?number=
${P:U:result{number}}"
    }
},
{
    "name": "Debug Incident",

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    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{R:}}${XC:DEBUG:{RH:}}${XC:DEBUG:{UT:}}"
  },
  {
    "name": "set time incedent was created to a variable",
    "operation": "NOP",
    "body_list": [
      "${XC:COPY:{L:TimeIncidentCreated}:{P:result[0]
{sys_created_on}}}"
    ]
  },
  {
    "name": "jump if no Obj_ref2",
    "operation": "CONDITION",
    "condition": {
      "condition_type": "OR",
      "statements": [
        {
          "left": "${L:A:Obj_ref}",
          "op": "==",
          "right": ""
        }
      ],
      "next": "done"
    }
  },
  {
    "name": "Update timestamp and system ID",
    "operation": "PUT",
    "transport": {
      "path": "${L:A:Obj_ref}"
    },
    "wapi": "v2.7",
    "wapi_quoting": "JSON",
    "body_list": [
      {"extattrs+\":{\\\"ServiceNow_LastIncidentSentAt\\\": { \\\"value\\\":
\\\"${L:A:TimeIncidentCreated}\\\"},\\\"ServiceNow_Event_ID\\\": { \\\"value\\\":
\\\"${P:A:result[0]{number}\\\"}}}"
    ]
  },

```

```
{
  "name": "done",
  "operation": "NOP",
  "body": ""
}
]
```