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{
  "version": "2.0",
  "name": "ForeScout Assets Mgmt",
  "comment": "Assets Management",
  "type": "REST_EVENT",
  "event_type": [
    "LEASE",
    "FIXED_ADDRESS_IPV4",
    "HOST_ADDRESS_IPV4"
  ],
  "transport": {
    "path": "/fsapi/niCore/Hosts"
  },
  "action_type": "Assets Management",
  "content_type": "application/xml",
  "vendor_identifier": "ForeScout",
  "quoting": "XML",
  "steps": [
    {
      "name": "DebugOnStart",
      "operation": "NOP",
      "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}"
    },
    {
      "name": "assignSyncTime",
      "operation": "NOP",
      "body_list": [
        "${XC:COPY:{L:SyncDate}:
{UT:TIME}}${XC:FORMAT:TRUNCATE:{L:SyncDate}:{16t}}"
      ]
    },
    {
      "name": "stop_if_just_changed",
      "operation": "CONDITION",
      "condition": {
        "condition_type": "AND",
        "statements": [
          {
            "left": "${E:A:values{extattrs}{FS_SyncedAt}{value}}",
            "op": "==",

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        "right": "${L::SyncDate}"
    },
    {
        "left": "${E:A:operation_type}",
        "op": "==",
        "right": "MODIFY"
    }
],
"stop": true
}
},
{
    "name": "check_for_not_Lease",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${E::event_type}",
                "op": "!=",
                "right": "LEASE"
            },
            {
                "left": "${E:A:values{extattrs}{FS_Sync}{value}}",
                "op": "==",
                "right": "true"
            }
        ],
        "eval": "${XC:ASSIGN:{L:Sync}:{S:true}}${XC:COPY:{L:Site}:
{E:values{extattrs}{FS_Site}{value}}}${XC:COPY:{L:RemediateOnEvent}:
{E:values{extattrs}{FS_RemediateOnEvent}{value}}}${XC:COPY:
{L:Obj_ref}:{E:values{_ref}}}${XC:COPY:{L:IP}:
{E:values{ipv4addr}}}${XC:COPY:{L:NV}:
{E:values{network_view}}}${XC:ASSIGN:{L:Obj_Ref_Add}:{S:}}",
        "else_eval": "${XC:ASSIGN:{L:Sync}:{S:false}}"
    }
},
{
    "name": "check_MAC",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",

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{E:hardware}}"
    }
  },
  {
    "name": "stop_if_no_sync",
    "operation": "CONDITION",
    "condition": {
      "condition_type": "AND",
      "statements": [
        {
          "left": "${L::Sync}",
          "op": "==",
          "right": "false"
        }
      ],
      "stop": true
    }
  },
  {
    "name": "Goto for delete action",
    "operation": "CONDITION",
    "condition": {
      "statements": [
        {
          "left": "${E:A:operation_type}",
          "op": "==",
          "right": "DELETE"
        }
      ],
      "condition_type": "AND",
      "next": "DebugDelete"
    }
  },
  {
    "name": "check_for_Lease_go_for_Data",
    "operation": "CONDITION",
    "condition": {
      "condition_type": "AND",
      "statements": [
        {
          "left": "${E::event_type}",
          "op": "!=",

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        "right": "LEASE"
    }
  ],
  "next": "Get Discovery Data"
}
},
{
  "name": "Create Obj_Ref for Lease",
  "operation": "SERIALIZE",
  "serializations": [
    {
      "destination": "L:Obj_Ref",
      "content": "lease"
    },
    {
      "destination": "L:Obj_Ref_Add",
      "content": "&address=${L:A:IP}"
    }
  ]
},
{
  "name": "Get Discovery Data",
  "operation": "GET",
  "transport": {
    "path": "${L:A:Obj_Ref}?_return_fields=discovered_data
${L:A:Obj_Ref_Add}"
  },
  "wapi": "v2.6"
},
{
  "name": "check_mac",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P:A:discovered_data{mac_address}}",
        "op": "!=",
        "right": ""
      },
      {
        "left": "${L:A:MAC}",

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        "op": "==",
        "right": "000000000000"
    }
],
    "eval": "${XC:COPY:{L:MAC}:
{P:discovered_data{mac_address}}}"
}
},
{
    "name": "check_discoverer",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${P::discovered_data{discoverer}}",
                "op": "!=",
                "right": ""
            }
        ],
        "eval": "${XC:COPY:{L:discoverer}:
{P:discovered_data{discoverer}}}",
        "else_eval": "${XC:ASSIGN:{L:discoverer}:{S.:}}"}
},
{
    "name": "check_discovered_name",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${P::discovered_data{discovered_name}}",
                "op": "!=",
                "right": ""
            }
        ],
        "eval": "${XC:COPY:{L:discovered_name}:
{P:discovered_data{discovered_name}}}",
        "else_eval": "${XC:ASSIGN:{L:discovered_name}:{S.:}}"}
}
},

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{
  "name": "check_v_switch",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P::discovered_data{v_switch}}",
        "op": "!=",
        "right": ""
      }
    ],
    "eval": "${XC:COPY:{L:v_switch}:
{P:discovered_data{v_switch}}}",
    "else_eval": "${XC:ASSIGN:{L:v_switch}:{S.:}}"
  }
},
{
  "name": "check_v_host",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P::discovered_data{v_host}}",
        "op": "!=",
        "right": ""
      }
    ],
    "eval": "${XC:COPY:{L:v_host}:{P:discovered_data{v_host}}}",
    "else_eval": "${XC:ASSIGN:{L:v_host}:{S.:}}"
  }
},
{
  "name": "check_v_datacenter",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P::discovered_data{v_datacenter}}",
        "op": "!=",

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        "right": ""
    }
],
    "eval": "${XC:COPY:{L:v_datacenter}:
{P:discovered_data{v_datacenter}}}",
    "else_eval": "${XC:ASSIGN:{L:v_datacenter}:{S.:}}"
}
},
{
    "name": "check_v_entity_name",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${P::discovered_data{v_entity_name}}",
                "op": "!=",
                "right": ""
            }
        ],
        "eval": "${XC:COPY:{L:v_entity_name}:
{P:discovered_data{v_entity_name}}}",
        "else_eval": "${XC:ASSIGN:{L:v_entity_name}:{S.:}}"
    }
},
{
    "name": "check_v_adapter",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${P::discovered_data{v_adapter}}",
                "op": "!=",
                "right": ""
            }
        ],
        "eval": "${XC:COPY:{L:v_adapter}:
{P:discovered_data{v_adapter}}}",
        "else_eval": "${XC:ASSIGN:{L:v_adapter}:{S.:}}"
    }
},

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{
  "name": "check_v_entity_type",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P::discovered_data{v_entity_type}}",
        "op": "!=",
        "right": ""
      }
    ],
    "eval": "${XC:COPY:{L:v_entity_type}:
{P:discovered_data{v_entity_type}}}",
    "else_eval": "${XC:ASSIGN:{L:v_entity_type}:{S:..}}"}
},
{
  "name": "check_network_component_ip",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P::discovered_data{network_component_ip}}",
        "op": "!=",
        "right": ""
      }
    ],
    "eval": "${XC:COPY:{L:network_component_ip}:
{P:discovered_data{network_component_ip}}}",
    "else_eval": "${XC:ASSIGN:{L:network_component_ip}:{S:..}}"}
},
{
  "name": "check_network_component_name",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P::discovered_data{network_component_name}}",

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        "op": "!=",
        "right": ""
    }
],
    "eval": "${XC:COPY:{L:network_component_name}:
{P:discovered_data{network_component_name}}}",
    "else_eval": "${XC:ASSIGN:{L:network_component_name}:
{S:}}}"
}
},
{
    "name": "check_network_component_port_name",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left":
"${P::discovered_data{network_component_port_name}}",
                "op": "!=",
                "right": ""
            }
        ],
        "eval": "${XC:COPY:{L:network_component_port_name}:
{P:discovered_data{network_component_port_name}}}",
        "else_eval": "${XC:ASSIGN:
{L:network_component_port_name}:{S:}}}"
    }
},
{
    "name": "check_network_component_port_description",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left":
"${P::discovered_data{network_component_port_description}}",
                "op": "!=",
                "right": ""
            }
        ],

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        "eval": "${XC:COPY:{L:network_component_port_description}:
{P:discovered_data{network_component_port_description}}}",
        "else_eval": "${XC:ASSIGN:
{L:network_component_port_description}:{S:.}}"
    }
},
{
    "name": "check_device_vendor",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${P::discovered_data{device_vendor}}",
                "op": "!=",
                "right": ""
            }
        ],
        "eval": "${XC:COPY:{L:device_vendor}:
{P:discovered_data{device_vendor}}}",
        "else_eval": "${XC:ASSIGN:{L:device_vendor}:{S:.}}"
    }
},
{
    "name": "check_device_model",
    "operation": "CONDITION",
    "condition": {
        "condition_type": "AND",
        "statements": [
            {
                "left": "${P::discovered_data{device_model}}",
                "op": "!=",
                "right": ""
            }
        ],
        "eval": "${XC:COPY:{L:device_model}:
{P:discovered_data{device_model}}}",
        "else_eval": "${XC:ASSIGN:{L:device_model}:{S:.}}"
    }
},
{
    "name": "check_device_type",

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"operation": "CONDITION",
"condition": {
  "condition_type": "AND",
  "statements": [
    {
      "left": "${P::discovered_data{device_type}}",
      "op": "!=",
      "right": ""
    }
  ],
  "eval": "${XC:COPY:{L:device_type}:
{P:discovered_data{device_type}}}",
  "else_eval": "${XC:ASSIGN:{L:device_type}:{S:.}}"
}
},
{
  "name": "DebugDiscovery",
  "operation": "NOP",
  "body": "${XC:DEBUG:{P:}}${XC:DEBUG:{L:}}"
},
{
  "name": "Get User Data",
  "operation": "GET",
  "transport": {
    "path": "networkuser?user_status=ACTIVE&address=${L:A:IP}"
  },
  "wapi": "v2.6"
},
{
  "name": "check_user_response",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${P:L:PARSE}",
        "op": "==",
        "right": "0"
      }
    ],
    "next": "check_username"
  }
}

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},
{
  "name": "Pop User from the list",
  "operation": "VARIABLEOP",
  "variable_ops": [
    {
      "operation": "UNSHIFT",
      "type": "DICTIONARY",
      "destination": "L:user",
      "source": "P:PARSE"
    }
  ]
},
{
  "name": "check_username",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${L::user{name}}",
        "op": "!=",
        "right": ""
      }
    ],
    "eval": "${XC:COPY:{L:username}:{L:user{name}}}${XC:COPY:
{L:domainname}:{L:user{domainname}}}",
    "else_eval": "${XC:ASSIGN:{L:username}:{S:.}}${XC:ASSIGN:
{L:domainname}:{S:.}}"
  }
},
{
  "name": "DebugUserData",
  "operation": "NOP",
  "body": "${XC:DEBUG:{P:}}${XC:DEBUG:{L:}}"
},
{
  "name": "Create_FS_Asset",
  "operation": "POST",
  "body_list": [
    "<?xml version=\"1.0\" encoding=\"UTF-8\"?>",
    "<FSAPI TYPE=\"request\" API_VERSION=\"1.0\">",

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```
"<TRANSACTION TYPE= \"update\">",
"<OPTIONS CREATE_NEW_HOST= \"true\"/>",
"<HOST_KEY NAME= \"ip\" VALUE= \"${L:A:IP}\"/>",
"<PROPERTIES>",
"<PROPERTY NAME= \"IB_MAC\"><VALUE>${L:A:MAC}</
VALUE></PROPERTY>",
"<PROPERTY NAME= \"IB_Comment\"><VALUE>Added via IB
OutboundAPI at ${L:A:SyncDate}</VALUE></PROPERTY>",
"<TABLE_PROPERTY NAME= \"IB_Location\"><ROW>",
"<CPROPERTY NAME= \"Site\"><CVALUE>${L::Site}</
CVALUE></CPROPERTY>",
"<CPROPERTY NAME= \"Discoverer\"><CVALUE>
${L::discoverer}</CVALUE></CPROPERTY>",
"<CPROPERTY NAME= \"Discovered name\"><CVALUE>
${L::discovered_name}</CVALUE></CPROPERTY>",
"<CPROPERTY NAME= \"Virtual Machine Name\"><CVALUE>
${L::v_entity_name}</CVALUE></CPROPERTY>",
"<CPROPERTY NAME= \"Virtual Datacenter\"><CVALUE>
${L::v_datacenter}</CVALUE></CPROPERTY>",
"<CPROPERTY NAME= \"Virtual Host\"><CVALUE>${L::v_host}
</CVALUE></CPROPERTY>",
"<CPROPERTY NAME= \"Attached Device Address
\"><CVALUE>${L::network_component_ip}</CVALUE></CPROPERTY>",
"<CPROPERTY NAME= \"Attached Device Name\"><CVALUE>
${L::network_component_name}${L::v_switch}</CVALUE></
CPROPERTY>",
"<CPROPERTY NAME= \"Attached Device Port\"><CVALUE>
${L::v_adapter} ${L::network_component_port_name}</CVALUE></
CPROPERTY>",
"<CPROPERTY NAME= \"Device Vendor\"><CVALUE>
${L::device_vendor}</CVALUE></CPROPERTY>",
"<CPROPERTY NAME= \"Device Model\"><CVALUE>
${L::device_model}</CVALUE></CPROPERTY>",
"<CPROPERTY NAME= \"Device Type\"><CVALUE>
${L::device_type} ${L::v_entity_type}</CVALUE></CPROPERTY>",
"</ROW></TABLE_PROPERTY>",
"<TABLE_PROPERTY NAME= \"IB_User\"><ROW>",
"<CPROPERTY NAME= \"Username\"><CVALUE>
${L::username}</CVALUE></CPROPERTY>",
"<CPROPERTY NAME= \"Domain\"><CVALUE>
${L::domainname}</CVALUE></CPROPERTY>",
"</ROW></TABLE_PROPERTY>",
```

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    "</PROPERTIES>",
    "</TRANSACTION>",
    "</FSAPI>"
  ],
  "parse": "XMLA"
},
{
  "name": "Check add/modify",
  "operation": "CONDITION",
  "condition": {
    "statements": [
      {
        "left": "${P:A:PARSE{FSAPI}{STATUS}{CODE}}",
        "op": "!=",
        "right": "FSAPI_OK"
      }
    ],
    "condition_type": "OR",
    "error": true
  }
},
{
  "name": "stop_if_Lease",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [
      {
        "left": "${E::event_type}",
        "op": "==",
        "right": "LEASE"
      }
    ],
    "stop": true
  }
},
{
  "name": "next_if_Fixed",
  "operation": "CONDITION",
  "condition": {
    "condition_type": "AND",
    "statements": [

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        {
            "left": "${E::event_type}",
            "op": "==",
            "right": "FIXED_ADDRESS_IPV4"
        }
    ],
    "next": "Update Sync Time"
}
},
{
    "name": "Get HostIPv4 _ref",
    "operation": "GET",
    "transport": {
        "path": "record:host?ipv4addr=${L:U:IP}&network_view=
${L:U:NV}"
    },
    "wapi": "v2.6"
},
{
    "name": "Get_Objref",
    "operation": "CONDITION",
    "condition": {
        "statements": [
            {
                "left": "${P:A:PARSE[0]{_ref}}",
                "op": "!=",
                "right": ""
            }
        ],
        "condition_type": "AND",
        "eval": "${XC:COPY:{L:Obj_ref}:{P:PARSE[0]{_ref}}}"
    }
},
{
    "name": "Update Sync Time",
    "operation": "PUT",
    "transport": {
        "path": "${L:A:Obj_ref}"
    },
    "wapi": "v2.6",
    "wapi_quoting": "JSON",
    "body_list": [

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        "{",
        "\"extattrs+\":{\"FS_SyncedAt\": { \"value\":
\"${L:A:SyncDate}\"}}",
        "}"
    ]
},
{
    "name": "Stop Create/Modify",
    "operation": "CONDITION",
    "condition": {
        "statements": [
            {
                "left": "1",
                "op": "==",
                "right": "1"
            }
        ],
        "condition_type": "AND",
        "stop": true
    }
},
{
    "name": "DebugDelete",
    "operation": "NOP",
    "body": "${XC:DEBUG:{H:}}${XC:DEBUG:{E:}}${XC:DEBUG:
{I:}}${XC:DEBUG:{L:}}${XC:DEBUG:{S:}}${XC:DEBUG:{P:}}${XC:DEBUG:
{UT:}}"
},
{
    "name": "Delete_FS_Asset",
    "operation": "POST",
    "body_list": [
        "<?xml version=\"1.0\" encoding=\"UTF-8\"?>",
        "<FSAPI TYPE=\"request\" API_VERSION=\"1.0\">",
        "<TRANSACTION TYPE=\"update\">",
        "<OPTIONS CREATE_NEW_HOST=\"true\"/>",
        "<HOST_KEY NAME=\"ip\" VALUE=\"${L:A:IP}\"/>",
        "<PROPERTIES>",
        "<PROPERTY NAME=\"IB_Delete\"><VALUE>Delete</
VALUE></PROPERTY>",
        "</PROPERTIES>",
        "</TRANSACTION>",
    ]
}

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```
    "</FSAPI>"
  ],
  "parse": "XMLA"
},
{
  "name": "check delete",
  "operation": "CONDITION",
  "condition": {
    "statements": [
      {
        "left": "${P:A:PARSE{FSAPI}{STATUS}{CODE}}",
        "op": "!=",
        "right": "FSAPI_OK"
      }
    ],
    "condition_type": "OR",
    "error": true
  }
}
]
```