# Example Janus Device with VM farm

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Revision: 1.0

Introduction

When Janus protected resources across the network need to access VMs within a VM farm, Janus devices at the farm are required. This example details access to a single Janus protected resource VM within the farm using a network switch. This is not the only method to route select traffic through the Janus device but is simple and uses limited switch resources.
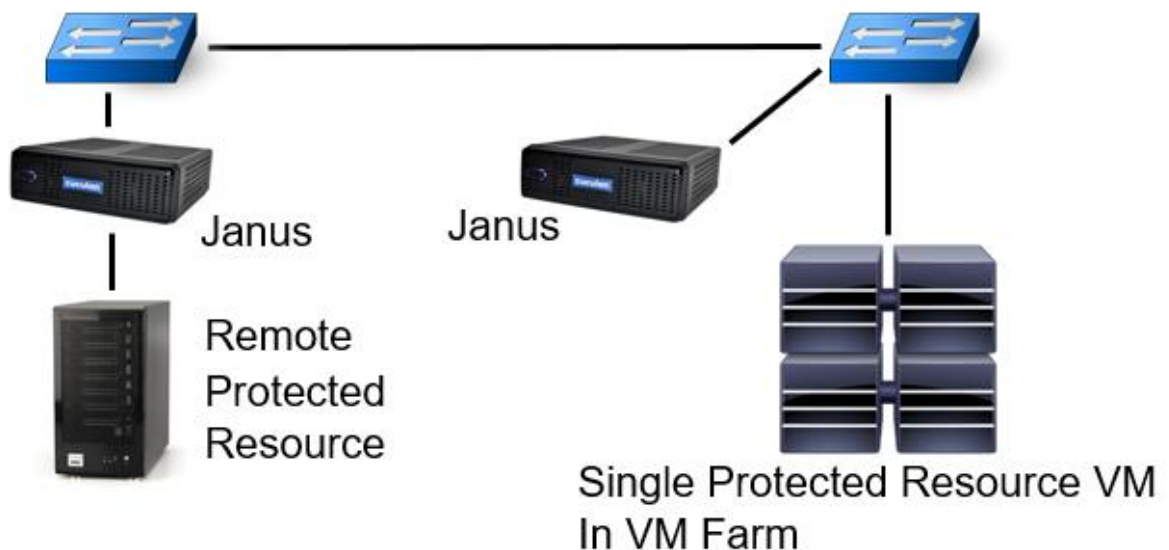
Notes

- Switch type Cisco SG500X-24
- VLAN 40 remote devices
- VLAN 41 protected resource server in VM farm
- VLAN 42-45 example of other servers in VM farm
- Switch port 21 General network, VLAN mode general, VLAN 1, 40,42-45
- Switch port 22 VM farm, VLAN mode general, VLAN 1, 41,42-45
- Switch port 23 WAN Janus, VLAN mode access, VLAN 40
- Switch port 24 LAN Janus, VLAN mode access, VLAN 41

CLI configuration

```
SG500Xae74ce# configure terminal
SG500Xae74ce(config)# vlan database
SG500Xae74ce(config-vlan)# vlan 40-45
```

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```
SG500Xae74ce(config-vlan)# end

SG500Xae74ce# configure terminal
SG500Xae74ce(config-if)# interface gi1/1/21
SG500Xae74ce(config-if)# switchport mode general
SG500Xae74ce(config-if)# switchport general allowed vlan add 40,42-45 tagged

SG500Xae74ce(config-if)# interface gi1/1/22
SG500Xae74ce(config-if)# switchport mode general
SG500Xae74ce(config-if)# switchport general allowed vlan add 41,42-45 tagged

SG500Xae74ce(config-if)# interface gi1/1/23
SG500Xae74ce(config-if)# switchport mode access
SG500Xae74ce(config-if)# switchport access vlan 40
SG500Xae74ce(config-if)# spanning-tree bpdu filtering

SG500Xae74ce(config-if)# interface gi1/1/24
SG500Xae74ce(config-if)# switchport mode access
SG500Xae74ce(config-if)# switchport access vlan 41
SG500Xae74ce(config-if)# spanning-tree bpdu filtering
SG500Xae74ce(config-if)# end

SG500Xae74ce# copy running-config startup-config
```

Operational Considerations

- The protected resource VM requires a change in VLAN ID. In this example the VLAN change is from 40 to 41 at the virtual switch within the farm
- Management of Janus devices require connection by the Windows management computer to the general network using VLAN 40
- The remote protected resources with Janus devices require an access port to the local switch. The local switch handles VLAN 40 tagging
- If Janus failover is required, 2 Janus devices are needed for each protected resource with appropriate switch resources. This configuration is not detailed in this example