



# MAC Masquerade

Avi Technical Reference (v20.1)

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# MAC Masquerade

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Avi Vantage supports MAC masquerade for use in conjunction with [Avi SE IP routing](#) to accelerate [legacy HA SE](#) failover in Linux server clouds. As of 17.2.4, feature support is extended to VMware no-access clouds. The delay in failover that otherwise may occur is attributed to back-end servers clinging to the MAC address of the interface of the previously active SE while they wait to learn the new MAC address from the newly active SE.

For such cases, MAC masquerade facilitates the use of a virtual MAC. Back-end servers are made to learn the virtual MAC for reachability of SE through the floating IP. Upon failover, just as the floating interface IP moves from the failed SE to the new active SE, so does the virtual MAC, enabling back-end servers to reach the correct SE as soon as the floating IP is moved to the new active SE.

Refer to the following table for compatibility details of this feature:

```
<td width="30%"> VMware read or write </td>
<td width="70%"> Atleast one virtual service must be configured </td>
```

```
<td> VMware no-access </td>
<td> IP routing must be enabled </td>
```

```
<td> Linux server cloud </td>
<td> IP routing must be enabled </td>
```

Note: Below are the security settings needed for front-end and back-end port groups for MAC masquerade in a VMware no-access deployment.

The screenshot shows the 'PG-616 - Edit Settings' window with the 'Security' tab selected. The settings are as follows:

Setting	Value
Promiscuous mode:	Accept
MAC address changes:	Reject
Forged transmits:	Accept

## CLI Interface

Mac Masquerade feature is configurable via Network Service. Refer to [Network Service](#) configuration page for more details.

The following command-line interface enables the feature under `serviceenginegroup` configuration:

```
[admin:10-140-1-4]: > configure serviceenginegroup Default-Group
[admin:10-140-1-4]: serviceenginegroup> enable_vmac
```

```
Overwriting the previously entered value for enable_vmac
[admin:10-140-1-4]: serviceenginegroup> save
[admin:10-140-1-4]: >
```

To disable the feature, use the no-form of the CLI:

```
[admin:10-140-1-4]: > configure serviceenginegroup Default-Group
[admin:10-140-1-4]: serviceenginegroup> no enable_vmac
[admin:10-140-1-4]: serviceenginegroup> save
[admin:10-140-1-4]: >
```

Starting with Avi Vantage version 18.2.5, Mac Masquerade feature is configurable via Network Service. Refer to [Network Service](#) configuration page for more details.