

## OnePopDnSharedIp Scenario

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The OnePopDnSharedIp scenario illustrates how to configure SAE plug-in agents that have state synchronization enabled to support an SAE plug-in that uses state synchronization. This scenario uses the same centralized and distributed configurations of hosts as the OnePop scenario.

Two realms are configured:

- Shared IP

The resolution process is identical to that for the OnePopShared scenario (see [\[Unresolved xref\]](#)).

- DN realm

This realm uses essentially the same resolution process as the MultiPop DN realm (see [\[Unresolved xref\]](#)). However, some of the constraints differ.

This realm also uses the same agents as the MultiPop DN realm. The names of agents and resolvers are essentially the same as those in the MultiPop configuration, although they do not include a POP identifier. Figure 1 on page 2 illustrates the centralized configuration, and Figure 2 on page 4 illustrates the distributed configuration for the DN realms.

The configuration for the two realms is similar to the configuration for the shared IP and DN realms in the OnePopAllRealms scenario. .

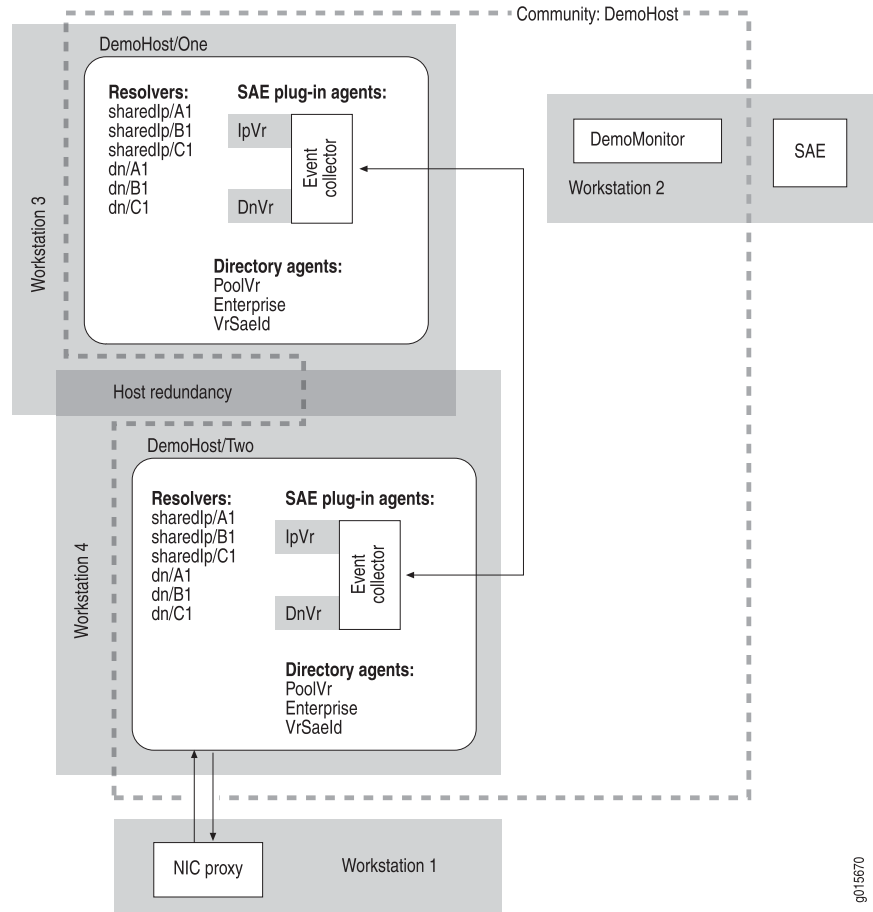
The OnePopAllRealms illustrates SAE plug-in agents configured to use SAE plug-in redundancy rather than SAE plug-in agents.

### Centralized Configuration

Figure 1 on page 2 shows the centralized configuration for the scenario. Host DemoHost supports all resolvers and agents. The two SAE plug-in agents, IpVr and DnVr, share an event collector. Both plug-in agents have state synchronization enabled.

DemoHost is also configured for redundancy. Its redundant hosts (DemoHost/One and DemoHost/Two) perform the host function. The redundant hosts are on different machines, and both hosts support the resolvers and agents assigned to the parent host. The redundant hosts form a community called DemoHost with the monitor DemoMonitor, which tracks them.

**Figure 1: OnePopDnSharedIp Realms Centralized Configuration**



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## Distributed Configuration

Figure 2 on page 4 shows the distributed configuration from the scenario. Host OnePopBO supports two resolvers for each realm and a directory agent that is used by different realms. Host OnePopH1 supports one resolver for each realm and agents that are used by different realms.

Both hosts also have a redundant configuration. The redundant hosts for OnePopBO (OnePopBO/One and OnePopBO/Two) perform the host function. The redundant hosts are on different machines, and both hosts support the resolvers and agents assigned to the parent host.

The redundant hosts for OnePopH1 (OnePopH1/One and OnePopH1/Two) perform the host function. The redundant hosts are on different machines, and both hosts support the resolvers and agents assigned to the parent host.

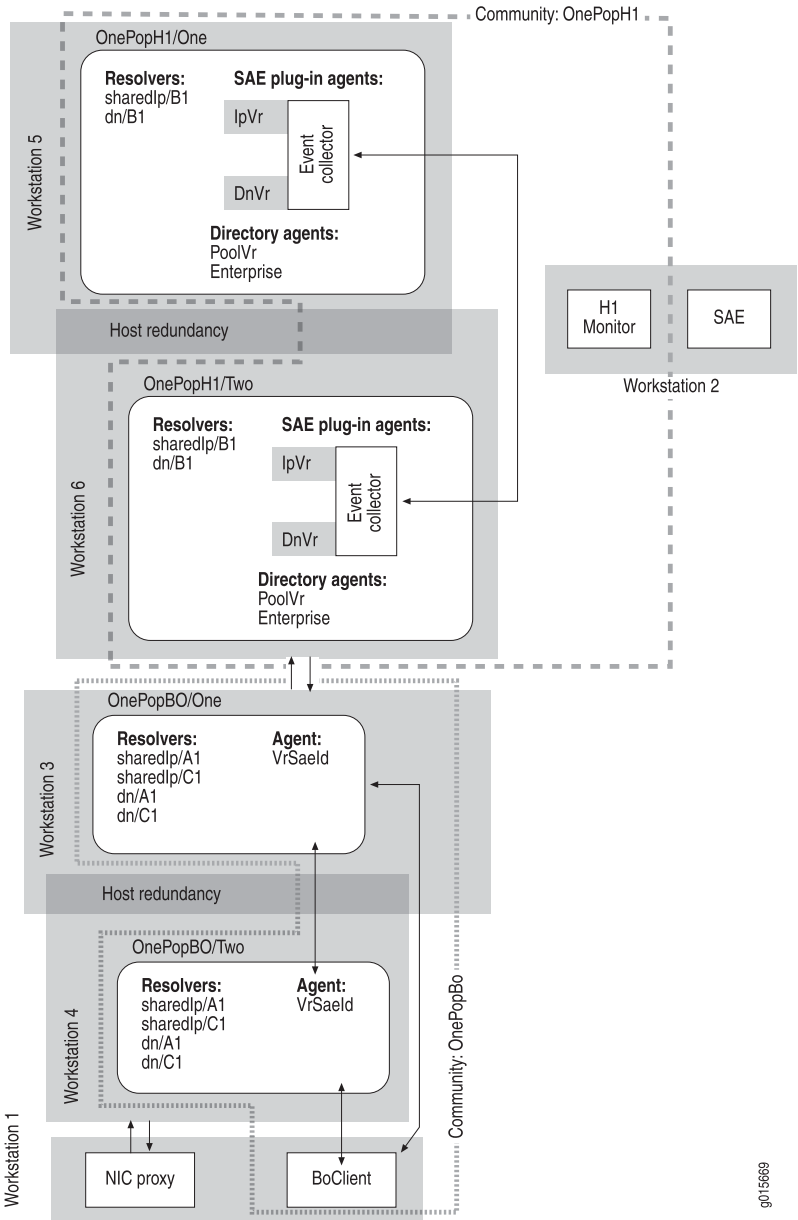
However, host OnePopH1 also supports two SAE plug-in agents, IpVr and DnVr, which share an event collector. These agents have state synchronization enabled.

The redundant hosts OnePopBO/One and OnePopBO/Two are members of a community called OnePopBO. This community supports the monitor, BoClient, which is installed on the machine that supports the NIC proxy. BoClient tracks the connections between the redundant hosts OnePopBO/One and OnePopBO/Two from the point of view of the NIC client (NIC proxy).

Similarly, the redundant hosts OnePopH1/One and OnePopH1/Two are members of a community called OnePopH1. This community has one monitor, H1 Monitor, which is located on the same machine as the SAE and tracks the connections among the redundant hosts in the same community, their primary host, and the other hosts in the configuration.

H1 Monitor comprises the monitor process OnePop, which is installed on the same machine as the SAE. BoClient comprises the monitor process OnePopClient, which is installed on the same machine as the NIC proxy.

Figure 2: OnePopDnSharedIp Realms Distributed Configuration



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