



Ecosystem Support | Avi Vantage | Knowledge Base

Avi Technical Reference (v20.1)

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Ecosystem Support

Avi Vantage integrates with the following ecosystems:

- Bare Metal (Linux Server Cloud)
- No-Orchestrator Cloud
- VMware vCenter
- VMware NSX-V
- VMware NSX-T
- OpenStack
- Nutanix
- Cisco CSP
- Amazon Web Services
- Microsoft Azure
- Google Cloud Platform
- Oracle Cloud Infrastructure
- IBM SoftLayer
- VMC on AWS
- OpenShift / Kubernetes ? Refer to [Avi Kubernetes Operator](#)

Note: Starting with Avi Vantage 20.1.3, support for NSX-V full access is deprecated. NSX-V full access will be removed in the upcoming releases.

VMware Ecosystems

Avi Vantage Version	VMware vCenter versions
17.2.13, 18.1.4	5.0 and 5.1 are not supported.
18.1.x	5.1, 5.5, 6.0, 6.4, 6.5, 6.7
18.2.x	5.1, 5.5, 6.0, 6.4, 6.5, 6.7, vSphere 7.0 (CVDS) Note: vSphere 7.0 (CVDS) is supported starting with Avi Vantage version 18.2.9
20.1.x	5.1, 5.5, 6.0, 6.4, 6.5, 6.7, 7.0

Avi Vantage only works with the following switches in a vCenter cloud:

- Standard Virtual Switch (vSwitch)
- Distributed Virtual Switch (vDS)

Also, the deployment of the controller and service engine OVA directly on an ESX host (for a no-access or other cloud-connector types) is NOT supported. They must be deployed using the vCenter UI, as the deployment requires Open Virtualization Format (OVF) properties to be configured.

- VMXNET3 network adapter is required for SE to operate in DPDK mode in VMware
- NSX-T v 2.5. and 3.0
- VMware NSX 6.2.4+

NSX-T - Avi Support Matrix

NSX-T Version	Minimum Avi Controller Version
2.5.1+	20.1.1
3.0.0+	20.1.1
3.1.0+	20.1.3

OpenStack Version Support

Avi Vantage Version	OpenStack Version
18.2.3	Queens, Rocky
18.2.6	Stein
20.1.1	Train, Keystone v3 Keystone v2 is not supported
20.1.2	Ussuri

Note:

- [Avi Vantage does not support Neutron DVR mode.](#)
- [Support for Keystone v3 in Avi Heat resources.](#)
- [For more details on OpenStack supported featured, refer to OpenStack Support Matrix user guide.](#)

No-Access Mode

No-Orchestrator: KVM (Red Hat/CentOS- 7.6 and Ubuntu 16.04) with SR-IOV NIC?s only (For more details on Linux KVM with SR-IOV data NIC, refer to [Linux KVM with SR-IOV data NIC](#)).

Bare Metal (Linux Server Cloud)

Bare-Metal Operating Systems

Bare-metal hosts	Minimum Supported Version
OEL 6.9, 7.2, 7.3, 7.4, 7.5 RHEL 7.2, 7.3, 7.4, 7.5 CentOS 7.2, 7.3, 7.4, 7.5	18.1.2
OEL 7.6 RHEL 7.6 CentOS 7.6	18.1.5
OEL 7.7 RHEL 7.7 CentOS 7.7	18.2.6
OEL 7.8 RHEL 7.8 CentoS 7.8	18.2.9, 20.1.1
RHEL 8.1, 8.2, 8.3	20.1.3
Ubuntu 16.04	All Avi Vantage versions

- Bare-metal hosts running these kernels:

Kernel Versions	Avi Versions Supported
supported_base_kernels=['3.10.0', '3.8.13', '4.1.12', '4.4.0' 3.8.13 '3.8.13-118.10.2.el7uek.x86_64', '3.8.13-16.2.1.el6uek.x86_64', '3.8.13-98.7.1.el7uek.x86_64', 3.10.0 , '3.10.0-957.10.1.0.1.el7.x86_64', '3.10.0-957.12.1.el7.x86_64' '4.4.0-21-generic'	17.2

```
supported_base_kernels=['3.10.0', '3.8.13', '4.1.12', '4.4.0']
3.8.13 '3.8.13-35.3.1.el7uek.x86_64',
'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-693.el7.x86_64',
'3.10.0-693.1.1.el7.x86_64',
'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
'3.10.0-862.11.6.el7.x86_64',
'3.10.0-862.9.1.el7.x86_64',
'3.10.0-862.6.3.el7.x86_64',
'3.10.0-862.3.3.el7.x86_64',
'3.10.0-862.2.3.el7.x86_64',
'3.10.0-862.el7.x86_64',
'3.10.0-862-14.4.el7.x86_64',
'3.10.0-957.el7.x86_64',
'3.10.0-957.1.3.el7.x86_64',
'3.10.0-957.10.1.0.1.el7.x86_64',
'3.10.0-957.12.1.el7.x86_64'
4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
'4.1.12-94.2.1.el7uek.x86_64',
4.4.0 '4.4.0-21-generic',
'4.4.0-51-generic',
'4.4.0-59-generic',
'4.4.0-62-generic',
'4.4.0-66-generic',
'4.4.0-70-generic',
'4.4.0-72-generic',
'4.4.0-112-generic']
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18.2.1

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supported_base_kernels=['3.10.0', '3.8.13', '4.1.12', '4.4.0']
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'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-693.el7.x86_64',
'3.10.0-693.1.1.el7.x86_64',
'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
'3.10.0-862.11.6.el7.x86_64',
'3.10.0-862.9.1.el7.x86_64',
'3.10.0-862.6.3.el7.x86_64',
'3.10.0-862.3.3.el7.x86_64',
'3.10.0-862.2.3.el7.x86_64',
'3.10.0-862.el7.x86_64',
'3.10.0-862-14.4.el7.x86_64',
'3.10.0-957.el7.x86_64',
'3.10.0-957.1.3.el7.x86_64',
'3.10.0-957.10.1.0.1.el7.x86_64',
'3.10.0-957.12.1.el7.x86_64'
4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
'4.1.12-94.2.1.el7uek.x86_64',
4.4.0 '4.4.0-21-generic',
'4.4.0-51-generic',
'4.4.0-59-generic',
'4.4.0-62-generic',
'4.4.0-66-generic',
'4.4.0-70-generic',
'4.4.0-72-generic',
'4.4.0-112-generic',
'4.4.0-116-generic',
4.15 '4.15.0-1017-gcp'
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18.2.2

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'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-693.el7.x86_64',
'3.10.0-693.1.1.el7.x86_64',
'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
'3.10.0-862.11.6.el7.x86_64',
'3.10.0-862.9.1.el7.x86_64',
'3.10.0-862.6.3.el7.x86_64',
'3.10.0-862.3.3.el7.x86_64',
'3.10.0-862.2.3.el7.x86_64',
'3.10.0-862.el7.x86_64',
'3.10.0-862-14.4.el7.x86_64',
'3.10.0-957.el7.x86_64',
'3.10.0-957.1.3.el7.x86_64',
'3.10.0-957.5.1.el7.x86_64',
'3.10.0-957.10.1.el7.x86_64',
'3.10.0-957.10.1.0.1.el7.x86_64',
'3.10.0-957.12.1.el7.x86_64'
4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
'4.1.12-94.2.1.el7uek.x86_64',
4.4.0 '4.4.0-21-generic',
'4.4.0-51-generic',
'4.4.0-59-generic',
'4.4.0-62-generic',
'4.4.0-66-generic',
'4.4.0-70-generic',
'4.4.0-72-generic',
'4.4.0-112-generic',
'4.4.0-116-generic',
4.15.0 '4.15.0-1017-gcp',
'4.15.0-1027-gcp']
```

18.2.3

```
supported_base_kernels=['3.10.0', '3.8.13', '4.1.12', '4.4.0']
3.8.13 '3.8.13-35.3.1.el7uek.x86_64',
'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-693.el7.x86_64',
'3.10.0-693.1.1.el7.x86_64',
'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
'3.10.0-862.11.6.el7.x86_64',
'3.10.0-862.9.1.el7.x86_64',
'3.10.0-862.6.3.el7.x86_64',
'3.10.0-862.3.3.el7.x86_64',
'3.10.0-862.2.3.el7.x86_64',
'3.10.0-862.el7.x86_64',
'3.10.0-862-14.4.el7.x86_64',
'3.10.0-957.el7.x86_64',
'3.10.0-957.1.3.el7.x86_64',
'3.10.0-957.5.1.el7.x86_64',
'3.10.0-957.10.1.el7.x86_64',
'3.10.0-957.10.1.0.1.el7.x86_64',
'3.10.0-957.12.1.el7.x86_64'
4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
'4.1.12-94.2.1.el7uek.x86_64',
4.4.0 '4.4.0-21-generic',
'4.4.0-51-generic',
'4.4.0-59-generic',
'4.4.0-62-generic',
'4.4.0-66-generic',
'4.4.0-70-generic',
'4.4.0-72-generic',
'4.4.0-112-generic',
'4.4.0-116-generic',
4.15.0 '4.15.0-1017-gcp',
'4.15.0-1027-gcp'
```

18.2.4


```
supported_base_kernels=['3.10.0', '3.8.13', '4.1.12', '4.4.0']
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'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-693.el7.x86_64',
'3.10.0-693.1.1.el7.x86_64',
'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
'3.10.0-862.11.6.el7.x86_64',
'3.10.0-862.9.1.el7.x86_64',
'3.10.0-862.6.3.el7.x86_64',
'3.10.0-862.3.3.el7.x86_64',
'3.10.0-862.2.3.el7.x86_64',
'3.10.0-862.el7.x86_64',
'3.10.0-862.14.4.el7.x86_64',
'3.10.0-862.29.1.el7.x86_64',
'3.10.0-957.el7.x86_64',
'3.10.0-957.1.3.el7.x86_64',
'3.10.0-957.5.1.el7.x86_64',
'3.10.0-957.10.1.el7.x86_64',
'3.10.0-957.10.1.0.1.el7.x86_64',
'3.10.0-957.12.1.el7.x86_64',
'3.10.0-957.12.2.0.1.el7.x86_64',
4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
'4.1.12-94.2.1.el7uek.x86_64',
4.4.0 '4.4.0-21-generic',
'4.4.0-51-generic',
'4.4.0-59-generic',
'4.4.0-62-generic',
'4.4.0-66-generic',
'4.4.0-70-generic',
'4.4.0-72-generic',
'4.4.0-112-generic',
'4.4.0-116-generic',
'4.4.0-137-generic',
'4.4.0-146-generic',
4.15.0 '4.15.0-1017-gcp',
'4.15.0-1027-gcp'
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18.2.5

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supported_base_kernels=['3.10.0', '3.8.13', '4.1.12', '4.4.0']
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'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
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'3.10.0-862.9.1.el7.x86_64',
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'3.10.0-862.2.3.el7.x86_64',
'3.10.0-862.el7.x86_64',
'3.10.0-862.14.4.el7.x86_64',
'3.10.0-862.29.1.el7.x86_64',
'3.10.0-957.el7.x86_64',
'3.10.0-957.1.3.el7.x86_64',
'3.10.0-957.5.1.el7.x86_64',
'3.10.0-957.10.1.el7.x86_64',
'3.10.0-957.10.1.0.1.el7.x86_64',
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4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
'4.1.12-94.2.1.el7uek.x86_64',
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'4.4.0-66-generic',
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'4.4.0-112-generic',
'4.4.0-116-generic',
'4.4.0-137-generic',
'4.4.0-146-generic',
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18.2.6

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'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-693.el7.x86_64',
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'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
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'3.10.0-862.2.3.el7.x86_64',
'3.10.0-862.el7.x86_64',
'3.10.0-862.14.4.el7.x86_64',
'3.10.0-862.29.1.el7.x86_64',
'3.10.0-957.el7.x86_64',
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'3.10.0-957.12.2.0.1.el7.x86_64',
'3.10.0-1062.el7.x86_64',
4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
'4.1.12-94.2.1.el7uek.x86_64',
4.4.0 '4.4.0-21-generic',
'4.4.0-51-generic',
'4.4.0-59-generic',
'4.4.0-62-generic',
'4.4.0-66-generic',
'4.4.0-70-generic',
'4.4.0-72-generic',
'4.4.0-112-generic',
'4.4.0-116-generic',
'4.4.0-137-generic',
'4.4.0-146-generic',
4.15.0 '4.15.0-1017-gcp',
'4.15.0-1027-gcp'

supported_base_kernels=['3.10.0', '3.8.13', '4.1.12', '4.4.0', '4.14.35']
3.8.13 '3.8.13-35.3.1.el7uek.x86_64',
'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0
'3.10.0-327.28.2.el7.x86_64',

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18.2.7

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'3.10.0-693.el7.x86_64',
'3.10.0-693.1.1.el7.x86_64',
'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
'3.10.0-862.11.6.el7.x86_64',
'3.10.0-862.9.1.el7.x86_64',
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'3.10.0-1127.13.1.0.1.el7.x86_64',
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3.10.0-1127.18.2.el7.x86_64,

4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
'4.1.12-94.2.1.el7uek.x86_64',
4.14.35 '4.14.35-1902.10.8.el7uek.x86_64',
4.4.0 '4.4.0-21-generic',
'4.4.0-51-generic',
'4.4.0-59-generic',
'4.4.0-62-generic',
'4.4.0-66-generic',
'4.4.0-70-generic',
'4.4.0-72-generic',
'4.4.0-112-generic',
'4.4.0-116-generic',
'4.4.0-137-generic',
'4.4.0-146-generic',
'4.4.0-178-generic', 4.15.0 '4.15.0-1017-gcp',
'4.15.0-1027-gcp'

supported_base_kernels=['3.10.0', '3.8.13', '4.1.12', '4.4.0', '4.14.35']
3.8.13 '3.8.13-35.3.1.el7uek.x86_64',

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18.2.8

- '3.8.13-118.10.2.el7uek.x86_64',
- '3.8.13-16.2.1.el6uek.x86_64',
- '3.8.13-98.7.1.el7uek.x86_64',
- 3.10.0 '3.10.0-327.28.2.el7.x86_64',
- '3.10.0-514.6.1.el7.x86_64',
- '3.10.0-514.16.1.el7.x86_64',
- '3.10.0-514.6.1.el7.x86_64',
- '3.10.0-693.el7.x86_64',
- '3.10.0-693.1.1.el7.x86_64',
- '3.10.0-693.2.2.el7.x86_64',
- '3.10.0-862.3.2.el7.x86_64',
- '3.10.0-862.11.6.el7.x86_64',
- '3.10.0-862.9.1.el7.x86_64',
- '3.10.0-862.6.3.el7.x86_64',
- '3.10.0-862.3.3.el7.x86_64',
- '3.10.0-862.2.3.el7.x86_64',
- '3.10.0-862.el7.x86_64',
- '3.10.0-862.14.4.el7.x86_64',
- '3.10.0-862.29.1.el7.x86_64',
- '3.10.0-957.el7.x86_64',
- '3.10.0-957.1.3.el7.x86_64',
- '3.10.0-957.5.1.el7.x86_64',
- '3.10.0-957.10.1.el7.x86_64',
- '3.10.0-957.10.1.0.1.el7.x86_64',
- '3.10.0-957.12.1.el7.x86_64',
- '3.10.0-957.12.2.0.1.el7.x86_64',
- '3.10.0-957.21.3.el7',
- '3.10.0-957.21.2.el7',
- '3.10.0-1062.el7.x86_64',
- '3.10.0-1062.9.1.el7.x86_64',
- '3.10.0-1062.9.1.0.1.el7.x86_64',
- '3.10.0-1062.12.1.el7.x86_64',
- '3.10.0-1062.18.1.el7.x86_64',
- '3.10.0-1127.0.0.0.1.el7.x86_64',
- '3.10.0-1127.13.1.0.1.el7.x86_64',
- 3.10.0-1127.18.2.el7.x86_64,
- 3.10.0-1127.19.1.el7.x86_64,
- '3.10.0-1127.19.1.0.1.el7.x86_64',
- '3.10.0-1127.19.1.0.2.el7.x86_64'
- 4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
- '4.1.12-94.2.1.el7uek.x86_64',
- 4.14.35 '4.14.35-1902.10.8.el7uek.x86_64',
- 4.4.0 '4.4.0-21-generic',
- '4.4.0-51-generic',
- '4.4.0-59-generic',
- '4.4.0-62-generic',
- '4.4.0-66-generic',
- '4.4.0-70-generic',
- '4.4.0-72-generic',
- '4.4.0-112-generic',
- '4.4.0-116-generic',

18.2.9

'4.4.0-137-generic',
'4.4.0-146-generic',
'4.4.0-178-generic',
4.15.0 '4.15.0-1017-gcp',
'4.15.0-1027-gcp'

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'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-693.el7.x86_64',
'3.10.0-693.1.1.el7.x86_64',
'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
'3.10.0-862.11.6.el7.x86_64',
'3.10.0-862.9.1.el7.x86_64',
'3.10.0-862.6.3.el7.x86_64',
'3.10.0-862.3.3.el7.x86_64',
'3.10.0-862.2.3.el7.x86_64',
'3.10.0-862.el7.x86_64',
'3.10.0-862.14.4.el7.x86_64',
'3.10.0-862.29.1.el7.x86_64',
'3.10.0-957.el7.x86_64',
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'3.10.0-957.5.1.el7.x86_64',
'3.10.0-957.10.1.el7.x86_64',
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'3.10.0-957.10.1.0.1.el7.x86_64',
'3.10.0-957.12.2.0.1.el7.x86_64',
'3.10.0-1062.el7.x86_64',
'3.10.0-1062.9.1.el7.x86_64',
'3.10.0-1062.9.1.0.1.el7.x86_64',
'3.10.0-1062.12.1.el7.x86_64',
'3.10.0-1062.18.1.el7.x86_64',
'3.10.0-1127.0.0.0.1.el7.x86_64',
4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
'4.1.12-94.2.1.el7uek.x86_64',
4.14.35 '4.14.35-1902.10.8.el7uek.x86_64',
4.4.0 '4.4.0-21-generic',
'4.4.0-51-generic',
'4.4.0-59-generic',
'4.4.0-62-generic',
'4.4.0-66-generic',
'4.4.0-70-generic',
'4.4.0-72-generic',
'4.4.0-112-generic',
'4.4.0-116-generic',
'4.4.0-137-generic',
'4.4.0-146-generic',
'4.4.0-178-generic',
4.15.0 '4.15.0-1017-gcp',
'4.15.0-1027-gcp'
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18.2.10

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'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-693.el7.x86_64',
'3.10.0-693.1.1.el7.x86_64',
'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
'3.10.0-862.11.6.el7.x86_64',
'3.10.0-862.9.1.el7.x86_64',
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'3.10.0-862.2.3.el7.x86_64',
'3.10.0-862.el7.x86_64',
'3.10.0-862.14.4.el7.x86_64',
'3.10.0-862.29.1.el7.x86_64',
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'3.10.0-957.5.1.el7.x86_64',
'3.10.0-957.10.1.el7.x86_64',
'3.10.0-957.10.1.0.1.el7.x86_64',
'3.10.0-957.12.1.el7.x86_64',
'3.10.0-957.12.2.0.1.el7.x86_64',
'3.10.0-1062.el7.x86_64',
'3.10.0-1062.9.1.el7.x86_64',
'3.10.0-1062.9.1.0.1.el7.x86_64',
'3.10.0-1062.12.1.el7.x86_64',
'3.10.0-1062.18.1.el7.x86_64',
'3.10.0-1062.26.1.el7.x86_64',
'3.10.0-1127.0.0.0.1.el7.x86_64'
'3.10.0-1127.8.2.0.1.el7.x86_64',
'3.10.0-1127.13.1.0.1.el7.x86_64',
'3.10.0-1127.18.2.el7.x86_64',
'3.10.0-1127.19.1.el7.x86_64',
'3.10.0-1127.19.1.0.1.el7.x86_64',
'3.10.0-1127.19.1.0.2.el7.x86_64'
'3.10.0-1136.el7.x86_64',
'3.10.0-1160.el7.x86_64',
'3.10.0-1160.2.1.el7.x86_64',
'3.10.0-1160.2.2.el7.x86_64',
'3.10.0-1160.2.2.0.1.el7.x86_64',
'3.10.0-1160.6.1.el7.x86_64'
4.1.12 '4.1.12-61.1.18.el7uek.x86_64',
'4.1.12-94.2.1.el7uek.x86_64',
4.14.35 '4.14.35-1902.10.8.el7uek.x86_64',
4.4.0 '4.4.0-21-generic',

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18.2.11


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'4.4.0-72-generic',
'4.4.0-112-generic',
'4.4.0-116-generic',
'4.4.0-137-generic',
'4.4.0-146-generic',
'4.4.0-178-generic',
4.15.0 '4.15.0-1017-gcp',
'4.15.0-1027-gcp'

supported_base_kernels=['3.10.0', '3.8.13', '4.1.12', '4.4.0', '4.14.35']
3.8.13 '3.8.13-35.3.1.el7uek.x86_64',
'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
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'3.10.0-693.1.1.el7.x86_64',
'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
'3.10.0-862.11.6.el7.x86_64',
'3.10.0-862.9.1.el7.x86_64',
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'3.10.0-862.3.3.el7.x86_64',
'3.10.0-862.2.3.el7.x86_64',
'3.10.0-862.el7.x86_64',
'3.10.0-862.14.4.el7.x86_64',
'3.10.0-862.29.1.el7.x86_64',
'3.10.0-957.el7.x86_64',
'3.10.0-957.1.3.el7.x86_64',
'3.10.0-957.5.1.el7.x86_64',
'3.10.0-957.10.1.el7.x86_64',
'3.10.0-957.10.1.0.1.el7.x86_64',
'3.10.0-957.12.1.el7.x86_64',
'3.10.0-957.12.2.0.1.el7.x86_64',
'3.10.0-957.21.3.el7',
'3.10.0-957.21.2.el7',
'3.10.0-1062.el7.x86_64',
'3.10.0-1062.9.1.el7.x86_64',
'3.10.0-1062.9.1.0.1.el7.x86_64',
'3.10.0-1062.12.1.el7.x86_64',
'3.10.0-1062.18.1.el7.x86_64',
'3.10.0-1127.0.0.0.1.el7.x86_64',
'3.10.0-1127.8.2.0.1.el7.x86_64'
'3.10.0-1127.10.1.el7'

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20.1.1

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'3.10.0-1127.19.1.el7.x86_64',  
'3.10.0-1127.19.1.0.1.el7.x86_64',  
'3.10.0-1127.19.1.0.2.el7.x86_64'  
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'3.10.0-1160.2.2.el7.x86_64',  
'3.10.0-1160.2.2.0.1.el7.x86_64',  
'3.10.0-1160.6.1.el7.x86_64'  
4.1.12 '4.1.12-61.1.18.el7uek.x86_64',  
'4.1.12-94.2.1.el7uek.x86_64',  
4.14.35 '4.14.35-1902.10.8.el7uek.x86_64',  
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'4.4.0-51-generic',  
'4.4.0-59-generic',  
'4.4.0-62-generic',  
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'4.4.0-116-generic',  
'4.4.0-137-generic',  
'4.4.0-146-generic',  
'4.4.0-178-generic',  
4.15.0 '4.15.0-1017-gcp',  
'4.15.0-1027-gcp'  
supported_base_kernels=['3.8.13', '3.10.0', '4.1.12', '4.4.0', '4.14.35']  
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'3.8.13-118.10.2.el7uek.x86_64',  
'3.8.13-16.2.1.el6uek.x86_64',  
'3.8.13-98.7.1.el7uek.x86_64',  
3.10.0 '3.10.0-327.28.2.el7.x86_64',  
'3.10.0-514.6.1.el7.x86_64',  
'3.10.0-514.16.1.el7.x86_64',  
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'3.10.0-693.2.2.el7.x86_64',  
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'3.10.0-1127.10.1.el7.x86_64',
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'3.10.0-1127.19.1.el7.x86_64',
'3.10.0-1127.19.1.0.1.el7.x86_64',
'3.10.0-1127.19.1.0.2.el7.x86_64',
'3.10.0-1136.el7.x86_64',
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'4.1.12-94.2.1.el7uek.x86_64',
4.14.35 '4.14.35-1902.10.8.el7uek.x86_64',
4.4.0 '4.4.0-21-generic',
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'4.4.0-59-generic',
'4.4.0-62-generic',
'4.4.0-66-generic',
'4.4.0-70-generic',
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'4.4.0-112-generic',
'4.4.0-116-generic',
'4.4.0-137-generic',
'4.4.0-146-generic',
'4.4.0-178-generic',
4.15.0 '4.15.0-1017-gcp',
'4.15.0-1027-gcp'

supported_base_kernels=['3.8.13', '3.10.0', '4.1.12', '4.4.0', '4.14.35']
3.8.13 '3.8.13-35.3.1.el7uek.x86_64',
'3.8.13-118.10.2.el7uek.x86_64',
'3.8.13-16.2.1.el6uek.x86_64',
'3.8.13-98.7.1.el7uek.x86_64',
3.10.0 '3.10.0-327.28.2.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-514.16.1.el7.x86_64',
'3.10.0-514.6.1.el7.x86_64',
'3.10.0-693.el7.x86_64',
'3.10.0-693.1.1.el7.x86_64',
'3.10.0-693.2.2.el7.x86_64',
'3.10.0-862.3.2.el7.x86_64',
'3.10.0-862.11.6.el7.x86_64',
'3.10.0-862.9.1.el7.x86_64',

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'3.10.0-862.6.3.el7.x86_64',
 '3.10.0-862.3.3.el7.x86_64',
 '3.10.0-862.2.3.el7.x86_64',
 '3.10.0-862.el7.x86_64',
 '3.10.0-862.14.4.el7.x86_64',
 '3.10.0-862.29.1.el7.x86_64',
 '3.10.0-957.el7.x86_64',
 '3.10.0-957.1.3.el7.x86_64',
 '3.10.0-957.5.1.el7.x86_64',
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 '3.10.0-1127.8.2.0.1.el7.x86_64',
 '3.10.0-1127.10.1.el7.x86_64',
 '3.10.0-1127.13.1.0.1.el7.x86_64',
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20.1.4

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Bare-Metal NICs

- For non-DPDK mode, Avi supports any server NIC.
- For DPDK mode (recommended), Avi Networks has qualified:
 - Intel NICs
 - 82599, X520, X540, X550, X552, X710, and XL710 ? all 18.2.x releases
 - XXV710 ? starting with 18.2.2
 - Mellanox NICs
 - ConnectX-4 25G and ConnectX-4 40G ? all 18.2.x releases
 - MCX4121A-ACAT ConnectX-4 Lx EN 25G NICs ? all 18.2.x releases
 - Broadcom BCM574XX NetXtreme-E family ? starting with Avi Vantage version 18.2.8

IPAM / DNS

- Avi DNS
- AWS Route 53
- Infoblox
- Microsoft Azure

Hardware Security Module (HSM)

- HSM ? SafeNet Network HSM Client Software Release 5.4.1 for 64-bit Linux
- AWS CloudHSM v2

Document Revision History

Date	Change Summary
December 23, 2020	Updated the NSX-T-Avi Support Matrix
December 23, 2020	Updated kernel versions for 20.1.1, 18.2.11
December 23, 2020	Added kernel versions for 20.1.3
January 11, 2021	Moved OpenStack related content to Openstack Support Matrix guide.
January 11, 2021	Added 20.1.2 kernel versions.
February 15, 2021	Added 20.1.4 kernel versions.