

# F5OS

F5OS that runs on F5 appliance and F5 chassis platforms enabled with a microservices platform layer.

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# Design

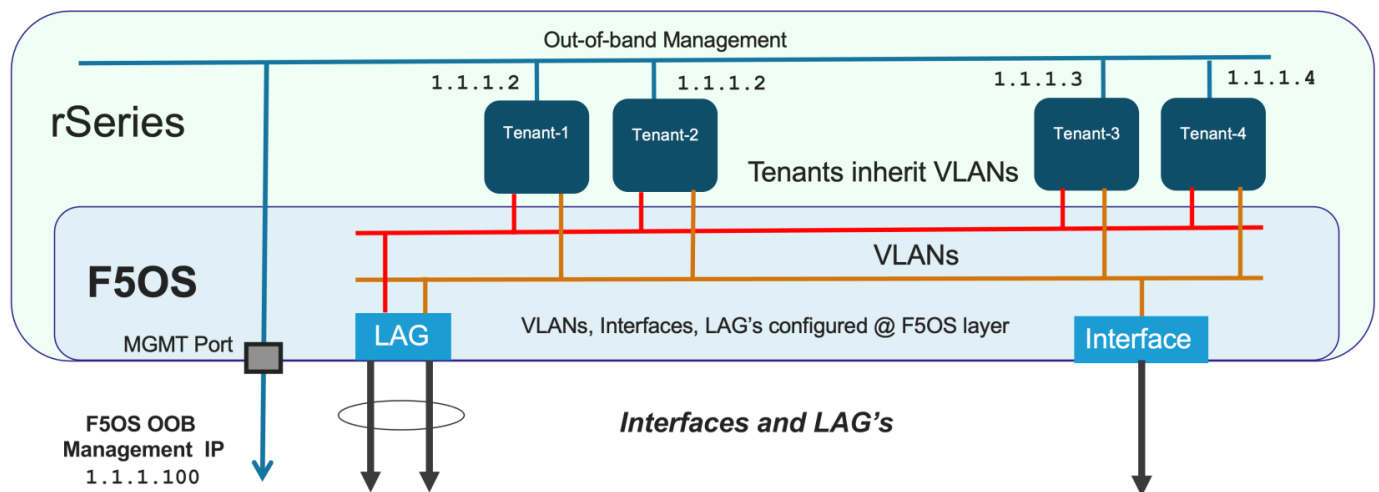
# F5OS-A for rSeries Architecture

## Documentation about F5OS-A used in rSeries

[Planning for rSeries Guide](#)

### Network Architecture

[rSeries Networking](#)



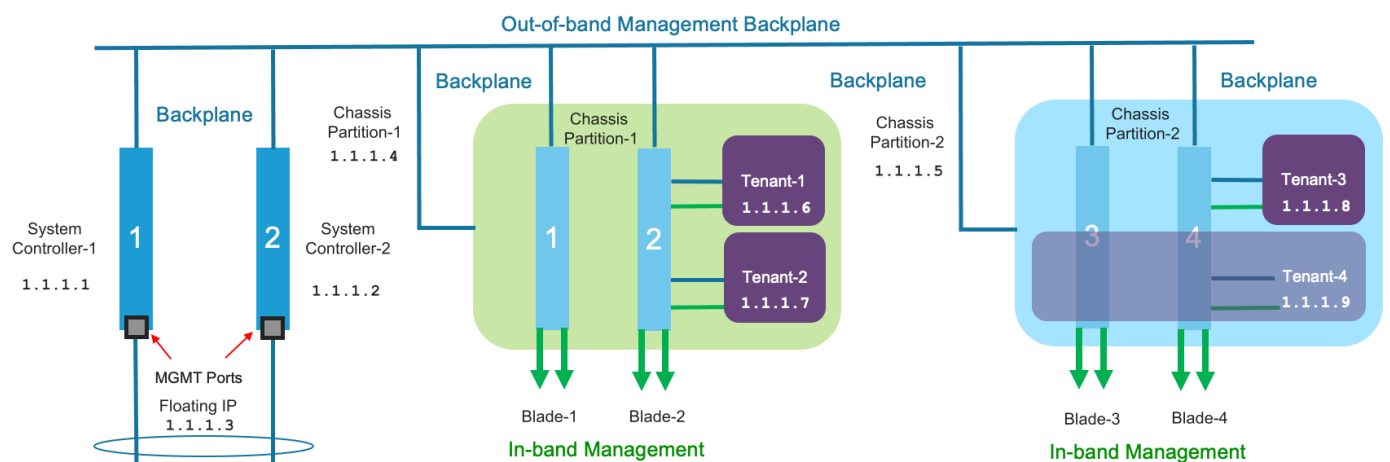
# F5OS-C for VELOS Architecture

## Documentation about F5OS-C used in VELOS

[Planning for VELOS Guide](#)

### Network Architecture

[VELOS Networking](#)



# Operation

# Useful CLI commands F5OS

## CLI commands

[ConfD](#) on F5 is the CLI tool to get and set all config of the F5. You can get the same configuration options like in the F5OS UI.

Use "su admin" to start an interactive shell when you are logged in as root via ssh.

## Useful CLI command line troubleshooting tools

Command	Description
<b>show system licensing</b>	The output displays licensing information for the F5OS system, including a list of active modules.
<b>show system state</b>	The output displays the state about the F5OS system, like hostname, date/time, mac address...

show system image

Shows System Image information.  
Example:

```
appliance-1# show system image

IN
VERSION OS      STATUS  DATE      SIZE
USE      TYPE
-----
1.5.1-12283  ready   2023-08-14  926.15MB
true

VERSION                                IN
SERVICE      STATUS  DATE      SIZE
USE      TYPE
-----
1.5.1-12283  ready   2023-08-14  4.55GB
true
1.5.0-5781   ready   2023-08-14  4.55GB
false

VERSION ISO  STATUS  DATE      SIZE                                IN
USE      TYPE
-----
1.5.1-12283  ready   2023-08-14  6.05GB
false
```

<b>show components component platform state</b>	<p>Displays hardware info, serial-no, part-no, memory, temperature and more of the platform. Example:</p> <pre>appliance-1# show components component platform state state description      r5600 state serial-no        f5-wdbb-iodf state part-no          "203-0411-05 REV B" state empty            false state tpm-integrity-status Valid state memory available 9573109760 state memory free      4797321216 state memory used-percent 93 state memory platform-total 16107667456 state memory platform-used 5998272512 state temperature current 21.4 state temperature average 22.2 state temperature minimum 21.2 state temperature maximum 23.5</pre>
<b>show port-mappings</b>	<p>The output displays information about port mappings and pipelines. For more infos check the documentation: <a href="#">F5OS-A for rSeries Architecture</a> <a href="#">F5OS-C for VELOS Architecture</a></p>



**show portgroups**

shows the installed optics in each portgroup.  
Example:

```
appliance-1# show portgroups
portgroups portgroup 1
state vendor-name      "F5 NETWORKS INC."
state vendor-oui        009065
state vendor-partnum    "OPT-0031      "
state vendor-revision   A0
state vendor-serialnum  "ABCD          "
state transmitter-technology "850 nm
VCSEL"
state media              100GBASE-SR4
state optic-state        QUALIFIED
portgroups portgroup 2
state vendor-name      "F5 NETWORKS INC."
state vendor-oui        009065
state vendor-partnum    "OPT-0031      "
state vendor-revision   A0
state vendor-serialnum  "ABCD          "
state transmitter-technology "850 nm
VCSEL"
state media              100GBASE-SR4
state optic-state        QUALIFIED
portgroups portgroup 3
state vendor-name      "F5 NETWORKS INC."
state vendor-oui        009065
state vendor-partnum    "OPT-0016      "
state vendor-revision   A1
state vendor-serialnum  "ABCD          "
state transmitter-technology "850 nm"
state media              10GBASE-SR
state optic-state        QUALIFIED
portgroups portgroup 4
state vendor-name      "F5 NETWORKS INC."
state vendor-oui        009065
state vendor-partnum    "OPT-0053      "
state vendor-revision   A1
state vendor-serialnum  "ABCD          "
state transmitter-technology ""
state media              25GBASE-SR
state optic-state        QUALIFIED
portgroups portgroup 5
state vendor-name      "F5 NETWORKS INC."
state vendor-oui        009065
```

<b>system diagnostics tcpdump interface 0/0.0</b>	tcpdump on any interface on host level. Also see: <a href="https://techdocs.f5.com/en-us/f5os-a-1-3-0/f5-rseries-systems-supportability/overview-tcpdump.html">https://techdocs.f5.com/en-us/f5os-a-1-3-0/f5-rseries-systems-supportability/overview-tcpdump.html</a>
<b>virtctl console &lt;tenant_name&gt;-&lt;tenant_instance_ID&gt;</b>	Will connect to the console of a tenant. See here: <a href="#">K33373310: Accessing an F5 rSeries tenant console</a>

# Migration to F5OS Tenant with Archive File

## tmsh load sys ucs options

- [K14906: Overview of the UCS "no-platform-check" tmsh option](#)
- [K82540512: Overview of the UCS archive 'platform-migrate' option](#)

**Important:** In versions prior to 13.1.0 and 12.1.3, although you can bypass the platform check, F5 does not currently have a supported method for migrating UCS files between dissimilar BIG-IP platforms. For example, performing a ConfigSync between different hardware platform types or between hardware and a virtual edition. In 13.1.0 and later, and 12.1.3 and later, refer to [K82540512: Overview of the UCS archive platform-migrate option](#).

Operation

# K000139994: F5OS operations guide for F5 VELOS and rSeries systems

F5 has released a F5OS Operations Guide, you can find it here:

<https://my.f5.com/manage/s/article/K000139994>

# Troubleshooting

# Links & Tools