

F5OS

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

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Design

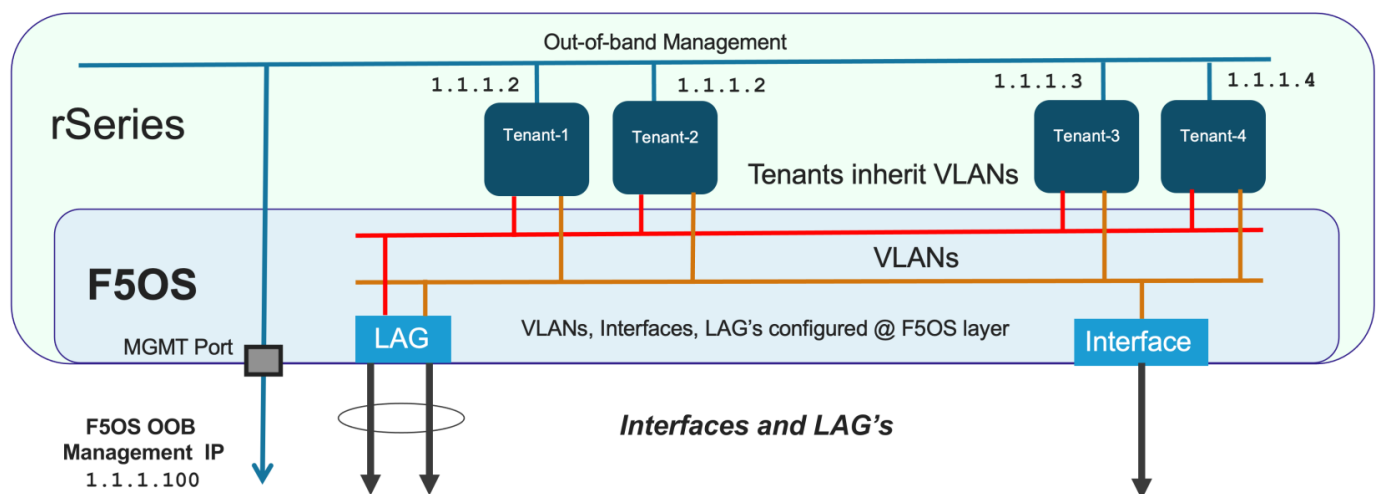
F5OS-A for rSeries Architecture

Documentation about F5OS-A used in rSeries

[Planning for rSeries Guide](#)

Network Architecture

[rSeries Networking](#)



F5OS-C for VELOS

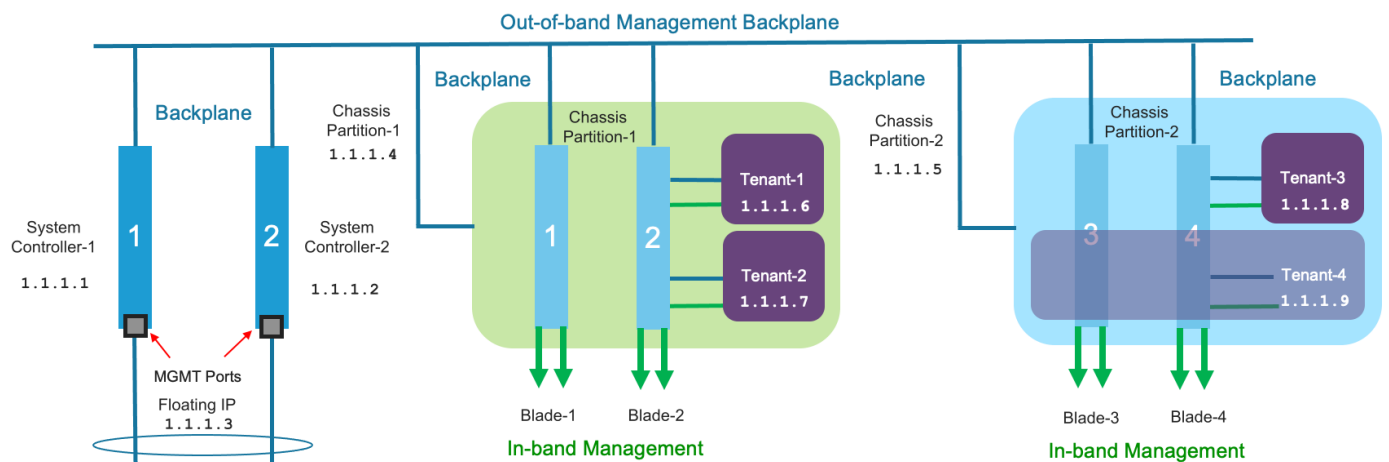
Architecture

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
show system licensing	The output displays licensing information for the F5OS system, including a list of active modules.
show system state	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

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

show components component platform state	<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>
show port-mappings	<p>The output displays information about port mappings and pipelines. For more infos check the documentation: F5OS-A for rSeries Architecture F5OS-C for VELOS Architecture</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
state vendor-partnum   "OPT-0016   "
state vendor-revision  A1
state vendor-serialnum "ABCD      "
state transmitter-technology "850 nm VCSEL"
state media            100GBASE-SR4
state optic-state      QUALIFIED
```

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

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