



ASA Deep Dive



Multi-Context



Creating Virtual Firewalls

- ▶ ASA supports Single or Multiple mode.
- ▶ In single mode you cannot create virtual firewalls.
- ▶ In multiple mode you can create virtual firewalls.
- ▶ Each virtual firewall is called a context.
- ▶ Number of context that you can create depends on the license.
- ▶ By default there are two built-in contexts. - System and Admin.
- ▶ System context is used to manage the physical resources of the physical ASA.
- ▶ System context is also used to allocate interfaces to virtual firewalls and also used for creating virtual firewalls.
- ▶ Admin context is used to create or manage system context remotely.
- ▶ Before you create virtual firewalls, you must create an admin context.

Creating Virtual Firewalls

▶ Considerations before you create virtual firewalls:

- License check.
- Ensure every interface of every context has a unique IP address.
- Ensure every context is assigned s unique interface.
- If a unique interface cannot be assigned, then ensure every interface of every context has a unique MAC address.

Creating Virtual Firewalls

- ▶ Moving from single to multiple mode:
 - `ASA(config)# mode multiple`
- ▶ Creating Admin Context:
 - `ASA(config)#admin-context admin`
- ▶ Creating Custom Context:
 - `ASA(config)#context Customer1`
- ▶ Allocating interfaces to Context:
 - `ASA(config-ctx)#allocate-interface G0/0`
- ▶ Defining storage place in flash for virtual firewalls.
 - `ASA(config-ctx)#config-url flash:admin.cfg`
- ▶ Configuring Custom Firewalls
 - `ASA(config)#changeto context Customer1`