

# Decoding Panorama Templates

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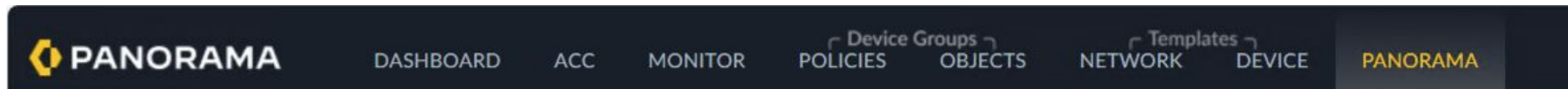
# What we'll learn today

- Why Panorama?
- Templates
- Template Stacks
- Reusability
- Overriding Template Values
- Tips and Best Practices

# Why Panorama?

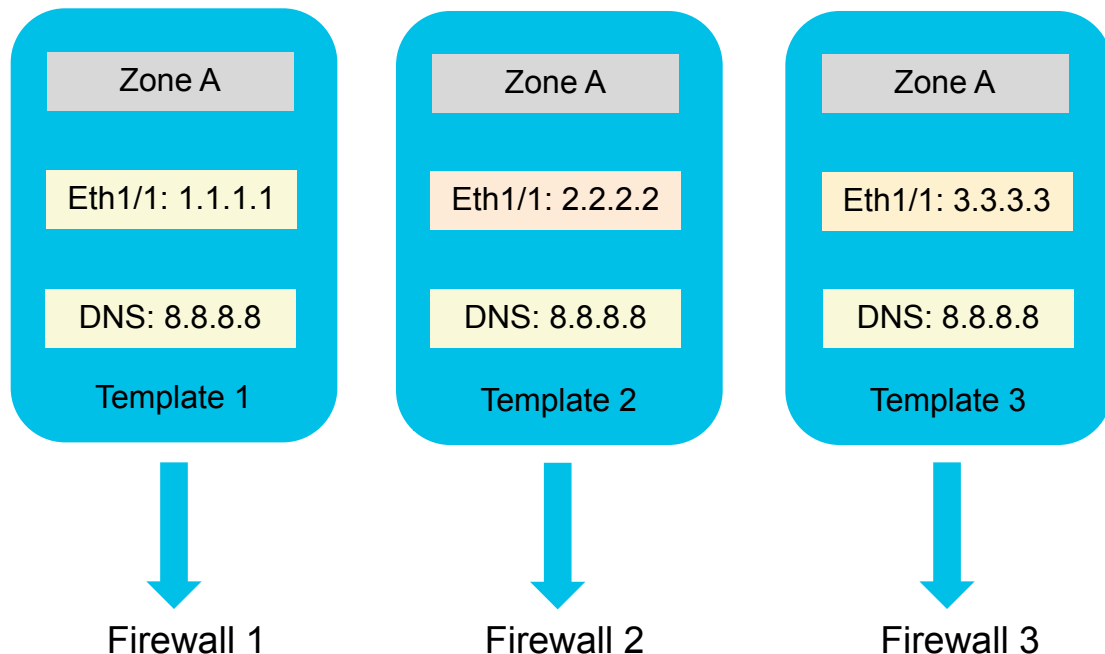
*delivering a consistent security posture at scale*

<b>P</b> Policies	<b>O</b> Objects	<b>N</b> Network	<b>D</b> Device
Shareability / Reusability			



# Templates: A History

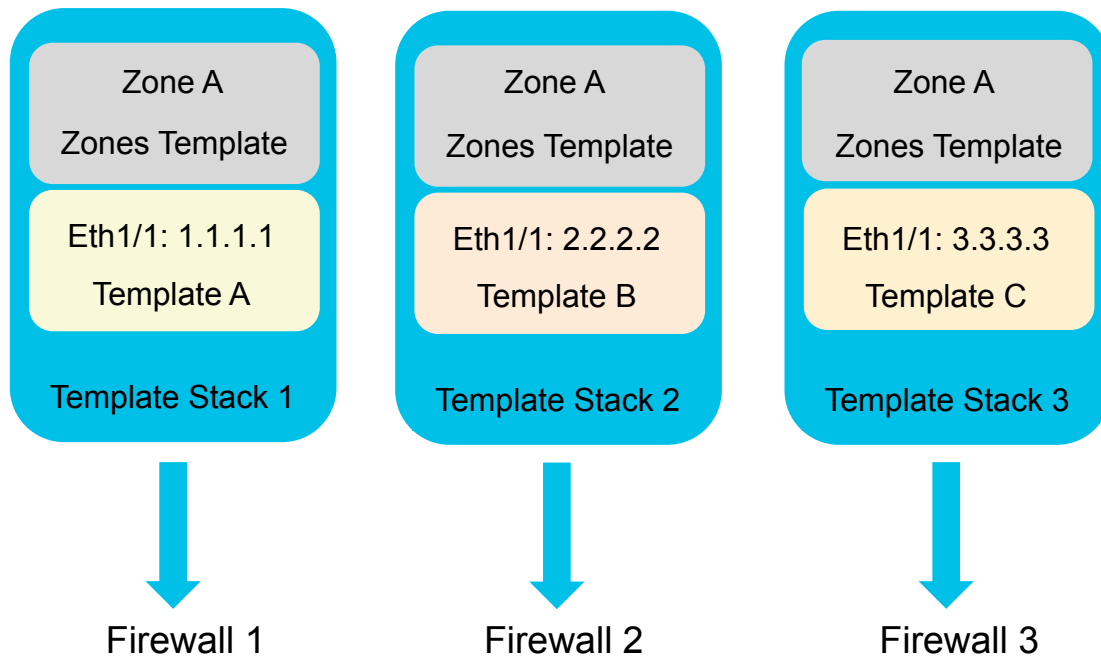
**Problem:** As the configuration and number of managed firewalls increases, there is a proliferation of templates.



- 1 Template per firewall, or
- Override locally on firewall

# Template Stacks

**Template Stacks** helped with some reusability, but again, as the configuration and number of managed firewalls increases, there is a proliferation of templates and template stacks.



- 1 template stack per firewall, or
- Override locally on firewall

## Template Stacks

**Problem:** If there are multiple templates with inter-dependent config, there was no way to add the dependencies at the template stack level.

Template A	Admin A	Admin Role 1
Template B	Admin B	
Template Stack AB	Admin A Admin B	Admin Role 1

# Template Stacks

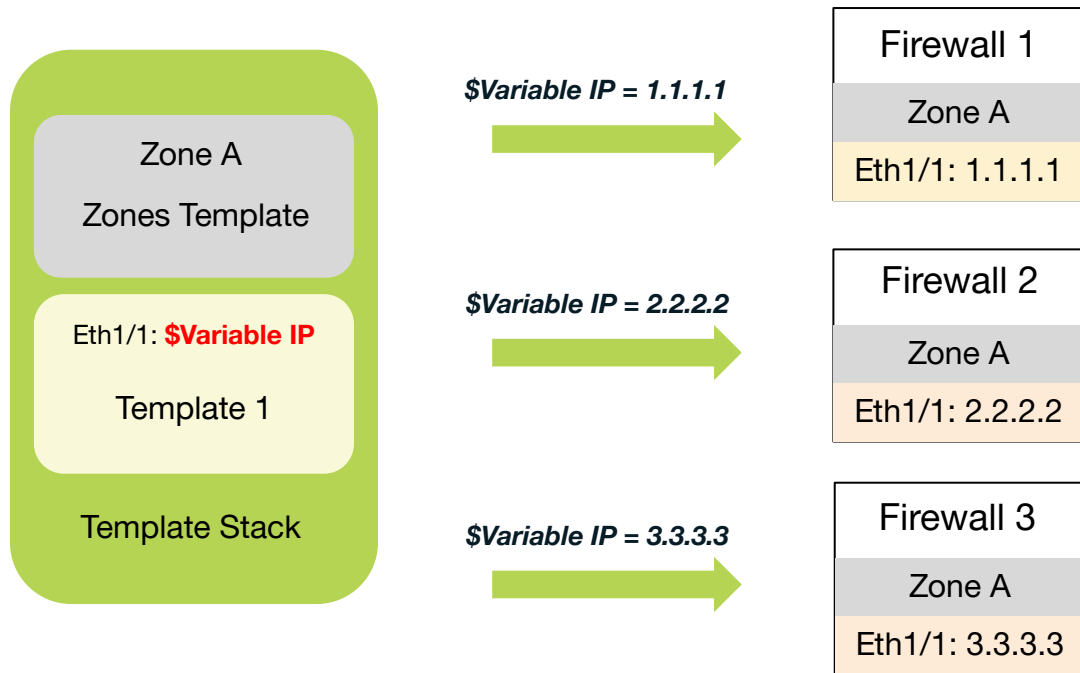
**Config Object Reusability** helped to solve this problem through 2 changes in default behaviour;

- 1) Firewalls can only be associated with Template Stacks
- 2) Allow Edit of Template Stacks, thereby overriding default Template values.

Template A	Admin A	Admin Role 1
Template B	Admin B	
Template Stack AB	Admin A Admin B	Admin Role 1 Admin Role 1

# Template Variables

**Variables** further help to reduce the number of templates and stacks required through overriding.



**Without variables:**  
4 Templates and 3  
Template Stacks

V/S

**With variables:**  
2 Template and 1  
Template Stack



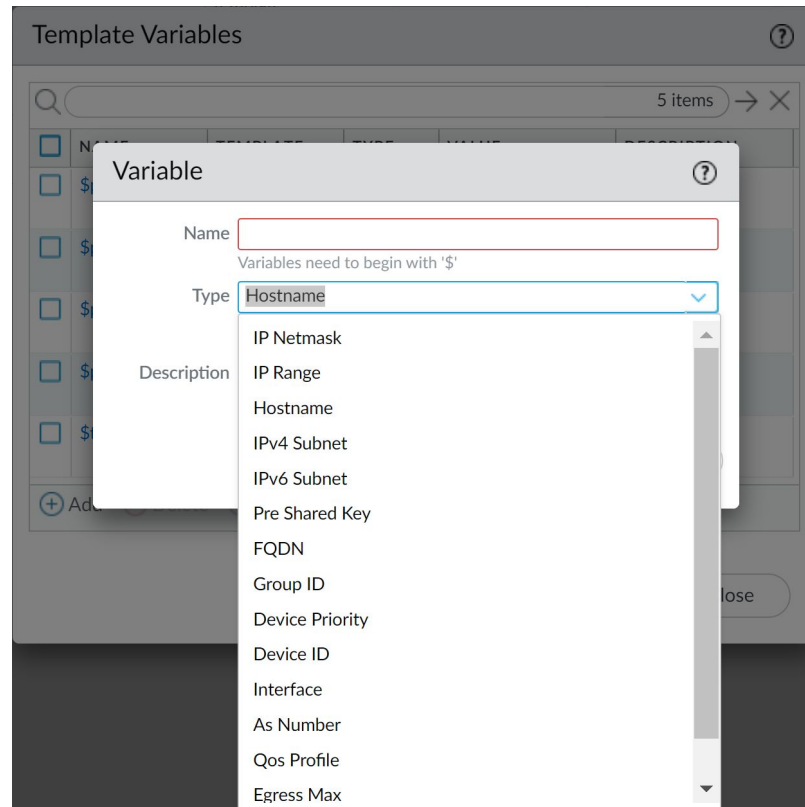
# Template Variables

Variables can be configured at the below levels;

- Template
- Template Stack (allows bulk import)

They can be modified at the below levels;

- Template
- Template Stack
- Device



# Template Overriding

A value or variable assigned to any configuration at the Template level can be overridden at any of the below levels, depending on the use-case;

- Template Stack
- Template Stack Variable
- Device level Variable
- Device Level ( not recommended )

# Questions?

# Thank You

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