



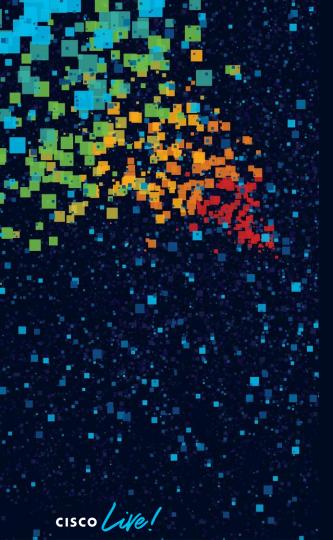
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# Deep Dive- Firepower Migration Tool

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# Agenda

- Why Migration Tool?
- Supported Platforms
- What's new (Roadmap)
- Best Practices
- Support and Troubleshooting
- Demo

# Manual Migration is Complex



Large and complex Source configurations



Errors can occur from manual migration



Downtime due to errors

- 1. Planning
- Network Design
  - Components Identification
  - Test Plan
- Test Plan



- 2. Preparation
- Configuration Migration
- Validation
  - Review & tune
  - Test execution



- 3. Change Window
- Network Deployment
- Validation
- [Rollback/Revert]



# Why Migration Tool?



- Pre- and Post- Migration reports
- Ability to edit the configuration being migrated
- Live running logs, graceful error handling and resume from failure
- Object conflict detection and resolution



- ACL, NAT, Object, Interface, FQDN migration
- App DB support
- Multi Context to Multi Instance
- Selective migration and optimizations such as object re-use
- Auto-mapping of interfaces



- Supports migration of features supported in FMC REST API
- Runs on Windows or Mac through Chrome browser
- CDO integration\* to leverage orchestration benefits
- Programmability\* through tool APIs



# Supported Firewalls



ASA



Checkpoint



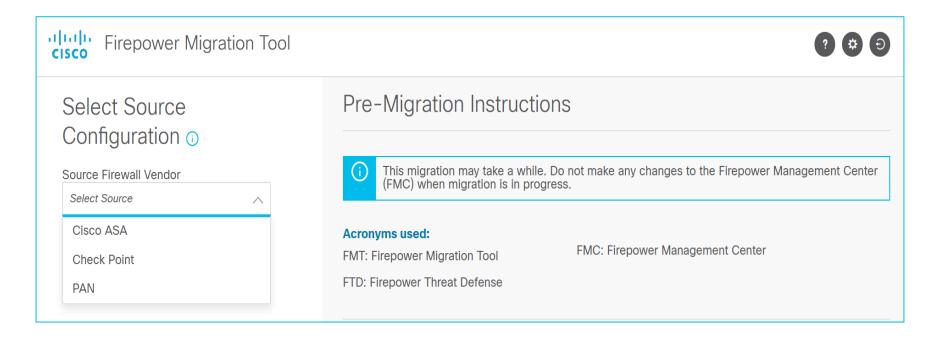
Palo Alto Networks



Fortinet\* (Rule Book)

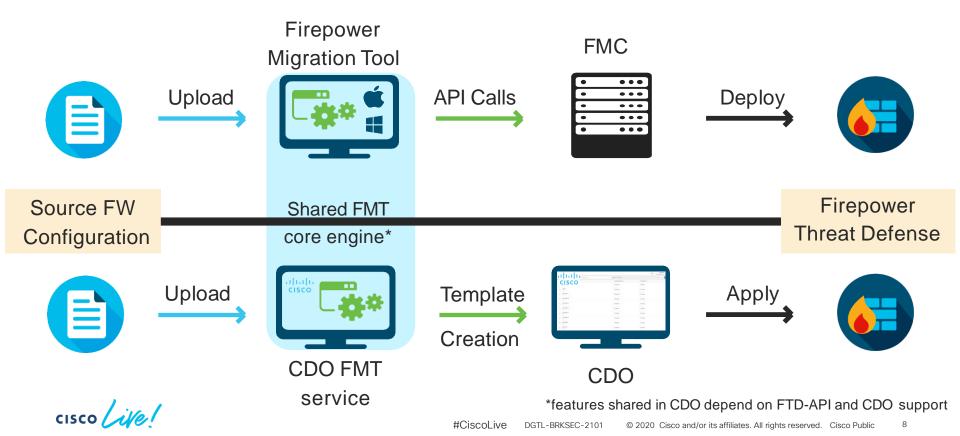


# Supported Firewalls





# Deployment Model



# Roadmap & What's New

#### **CY19**

#### **Key Features**

- Migrations in CDO
- Migrations from CP (r75-r77) to FTD

#### Usability

- Parsing & UI performance enhancements
- CSV download of review & validate tables
- Selective migration of ACL, NAT, object reuse

#### Continued Support for:

- Multi-Context to Multi-Instance
- Enablement of L7 Firewalling capabilities
- Network, Service & FQDN objects and groups

#### **CY20\***

#### **Key Features**

- Further 3<sup>rd</sup> party migrations (PAN, Fortinet,...)
- Version 2.1 released (PAN support)
- FMC to CDO migration

#### Usability

- Integration with Services
- Migration Versatility
- Layer 3 to Layer 7 mapping
- Access rules, CSM object grouping
- NAT, Static routes, IPv6
- Physical interface, port channels
- Bridge groups (transparent mode only)



# Support and Logs

Our goal is to make FMT user friendly and easier to troubleshoot issues

- Key-information right where you need it
- Link to detailed documentation
- Enhanced report storage in sub-folders
- Support Bundle to download logs, DB and configuration
- Telemetry improvements



# Support and Logs

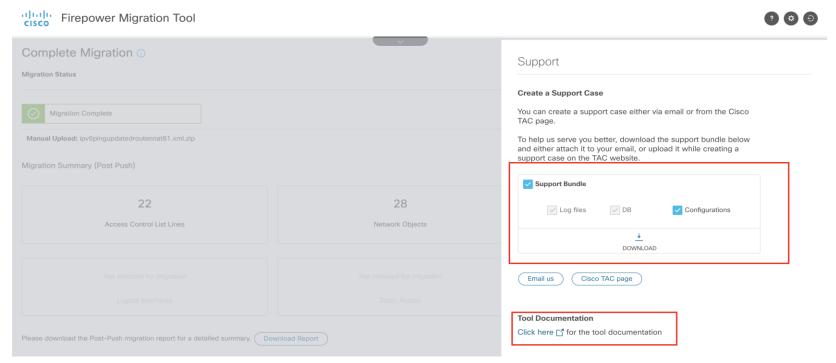
ACE Platform Limit Warning





# Support and Logs

Support Bundle and Documentation Help





### **Best Practices**



Download and Run the latest migration tool.



Review the FMT pre-migration checklist.



Create Separate user accounts on FMC for FMT tool usage with admin access.



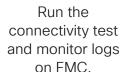
Map the interfaces and follow the onscreen steps to review and validate config.



Review the post migration report.



Deploy the policies on FMC.





## Cisco Success Network



CCO login to the tool after customer allows sharing statistics with Cisco Success Network



Use default login credentials for the tool if CCO is not reachable / if EULA is not agreed to / if the tool is offline



Data is sent automatically after migration succeeds or fails



Internet connectivity is only needed for Cisco Success
Network. Not having
Internet access does not impact the migration

Improves the tool significantly



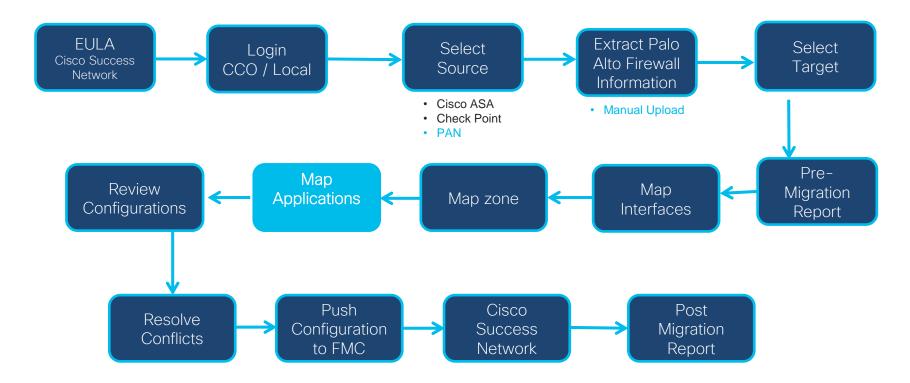
# Troubleshooting Common Errors

- \* Error While Pushing Network Groups: No Data
- object not found when creating object-group network
- § Error while validating: 'NoneType' object has no attribute 'name'
- access-list in bulk [1 1000] Another operation by another user prevented this operation.

  Please retry.
- Object with the same name already exists
- Source file type is wrong/File Upload Errors



# FMT Workflow of Migration from Palo Alto Networks Firewall





# PAN to FTD Application Mapping





# NGFW Migration Service



Migration Verification



Migration Support



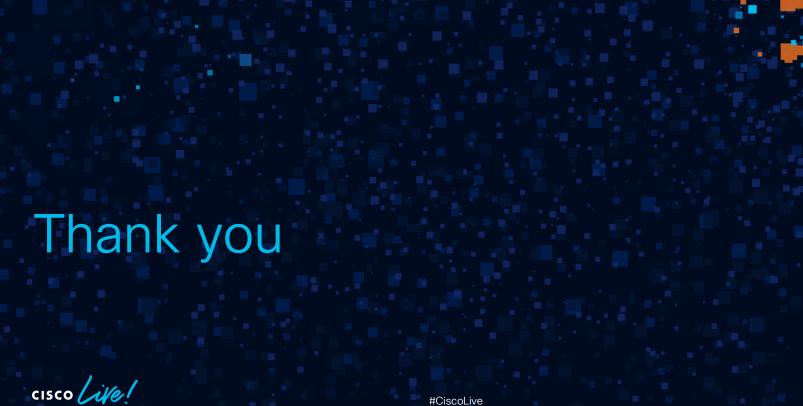
**Knowledge Transfer** 



Design Reviews



# Demo cisco live!



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