#### Team Leadership

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# Intro

- Disclaimer
- Work Experiences
  - AFCERT
    - APT intrusions
    - Insiders
    - DDoS
    - Outages (Network & Weather)
    - IT upgrades



#### U.S. AIR FORCE

## Problem Statement

- Scale of network & threats plus:
  - Lack of focused IT leadership training
  - <u>Critical</u> self-analysis missing in our community
- Solution and results
- Scope of the solution



#### U.S. AIR FORCE

## The Basic Principle



Endstate Outline of the effort / mission

Endstate All team members understand the plan

Endstate All expected tasks completed

Endstate Lesson Learned / Best Practices identified







"If you fail to plan, you are planning to fail." Benjamin Franklin

# Planning

Good leaders are good planners

- Problem: Most people feel very uncomfortable as planners
- We discovered that it is best to have a structured planning format
  - Keeps it standardized
  - Becomes muscle memory
- SUCCESS = Everyone on your team is comfortable with planning
- Our method

# Lead the planning effort/team



- Mission
- Enemy
- Environment
- Effects
- Capabilities
- Plans / Phases
- Contingencies
- Communications

If the plan sucks, you can only blame yourself

## Example Plan





ROC DRILL Timeline	<u>C2</u>
<ul> <li>Access granted</li> <li>APT detected</li> </ul>	
Compromised account located	
<ul> <li>Password reset initiated</li> </ul>	IR Lead
Access lost	in Lead
Services drop	
Main Server Crash	
Tools don't work     Don tost success /failure	Legal Advisor
<ul> <li>Pen test success/failure</li> <li>Customer PII leaked</li> </ul>	Legal Advisor
Customer complaints pour in	
	IT Lead Hunt Lead SOC Lead Pen Test
	Lead
Specific / Anticipated Communications	Comm Plan
	Pri/Sec/Ter Comms
<u># Criteria Authority Communications Action</u>	<ul> <li>Trigger points &amp; procedures to transition to backup Comms</li> </ul>
1.	Brevity
Comp PWD IT Dept "PWD X locked out" IOC added	Call Signs
2.	Collaboration (VTC, Corporate IM, SharePoint)
Access needed IR Lead "Access - System X" IT Dept confirms	Deliverables produced during/after Execution
3.	• Format
	Suspense
4.	

# Lead by briefing the team



- Mission Leader Conveys Plan
  - Cover the whole mission
  - Opportunity for team to ask questions/weigh-in on planning
- Brief includes:
  - Team objectives, tasks & expectations
  - Assessment plan
  - Visual timeline of events
  - Roles/Responsibilities/Resources
  - Assumptions and Contingencies

#### The brief sets the tone for the whole effort

## Lead during execution



- Execute in accordance with established guidelines & procedures
  - Directive Guidance
  - Checklists
  - Company policies
- Everyone should be noting observations throughout
  - Driven by assessment planning
  - Leader can assign focus areas to individuals

#### Deviations OK, but should be debriefed



"Those who cannot remember their mistakes are condemned to repeat them." George Santayana

# Lead the Debrief



- Reconstructing / analyzing an event to avoid repeat mistakes & clone success
- Led by leader; entire team participates & Rank is a non-factor!
- Tied to overall plan/objectives
  - Did we stick to the plan?
  - Was the plan sufficient?
- Structured Flow
  - Repeatable
  - Aids in avoiding pitfalls/bad habits

## Debrief Basics

A.K.A. a Hotwash or AAR

- Busbahnhof vs.
   Postbahnhof
- Institutional learning
- Must be internally focused
  - Salad Gate 2011
  - The Bathtub faucet



# Common Debrief Mistakes

- Not internally focused
- Jumping to Fix Action before identifying the Root Cause
  - Avoid: "I already know what went wrong...Here's simply what we do"
  - You can have suspicions, but always run through the process
- Not owning up to mistakes
  - Leave your ego and self preservation at the door!

# Dinner Party Example

- Objectives
  - 1) Feed guests delicious meal
  - 2) All guests leave happy/have good time
  - 3) Doesn't interfere with baby's routine
- Specified Tasks
  - Make dinner
  - Provide entertainment
  - Clean the house
- Implied Tasks
  - Decide what recipes to use
  - Go to the grocery store
  - Create dinner music playlist
  - Gather party games

- Constraints & Restraints
  - Has to end before baby's bath time
  - Can't serve alcohol to minors
- Assumptions
  - All guests will be omnivores
  - Guests do not have food allergies
- Assessment Criteria
  - Guests plates are cleaned
  - Guests joking and laughing
  - Guests are sad when it's babies bath time and have to leave

# Dinner Party Debrief

#### **Reconstruction**

- 0800 woke up
- 1200 ate lunch
- 1300 wife and I begin cleaning
- 1345 note: cleaning taking too long
- 1400 baby is fussy
- 1400 I start taking care of baby
- 1445 baby falls asleep (finally)
- 1500 left for the grocery store
- 1600 return from store/start cooking
- 1645 noticed missing key ingredients
- 1650 used soy sauce for beef bouillon
- 1715 Set table/prepare entertainment
- 1730 guests begin arriving
- 1830 Dinner served
- 1845 guests hardly touched food
- 1850 subject of food quickly deflected
- 1930 guests only mingling/party dead
- 1945 guests leave earlier than plan'd

- DFP: Why did the guests dislike the food? (Obj 1 & 2)
  - The guests' tastes are subjective
  - I failed to feed them delicious food
    - I failed to prepare the food in accordance with the recipe
      - I did not have all of the ingredients



- I failed to purchase all needed ingredients needed when at the grocery store
  - I didn't know better

IF: create grocery list with required ingredients

Lesson Learned: When preparing for a dinner party, I will remember to buy all of the required ingredients by creating a grocery list to remind me of what ingredients are needed so that the guests will like the food.

# Dinner Party version 2.0

- Objectives
  - 1) Feed guests delicious meal
  - 2) All guests leave happy/have good time
  - 3) Doesn't interfere with baby's routine
- Specified Tasks
  - Make dinner
  - Provide entertainment
  - Clean the house
- Implied Tasks
  - Decide what recipes to use
  - Make a grocery list
  - Go to the grocery store
  - Create dinner music playlist
  - Gather party games

- Constraints & Restraints
  - Has to end before baby's bath time
  - Can't serve alcohol to minors
- Assumptions
  - All guests will be omnivores
  - Guests do not have food allergies
- Assessment Criteria
  - Guests plates are cleaned
  - Guests joking and laughing
  - Guests are sad when it's babies bath time and have to leave

# Dinner Party 2.0 Debrief

#### Reconstruction

- Reconstruction
- 0800 woke up
- 0900 made ingredient/grocery list
- 1200 ate lunch
- 1300 wife and I begin cleaning
- 1500 left for the grocery store
- 1600 return from store/start cooking
- 1715 Set table/prepare entertainment
- 1730 guests begin arriving
- 1830 dinner served
- 1845 conversation is lively/jovial
- 1900 most guests plates empty
- 1900 guests A, C, & D asks for seconds
- 1900 guest B has only eaten salad
- 1900 guest B looks frustrated
- 1915 All guests enjoying party games
- 1930 guest B snacking heavily veggies
- 2045 guests have to be kicked out
- 2100 baby put to bed

- DFP: Why guest B dislike the food? (Obj 1 & 2)
  - I failed to prepare food to her liking
    - I failed to assess guest food preferences or diet restrictions
      - I didn't know better
- I failed to give the guests food options
  - I assumed all guests were omnivores
    - I didn't know better

IF: make a contingency plan for guests that may want/need other food options

LL: When planning for a dinner party, I will not only plan for everyone to like the same type of food by having a contingency plan in place for people who may want/need other food options (e.g. vegetarian) so that every guest enjoys the dinner.

# Dinner Party version 3.0

- Objectives
  - 1) Feed guests delicious meal
  - 2) All guests leave happy/have good time
  - 3) Doesn't interfere with baby's routine
- Specified Tasks
  - Make dinner
  - Provide entertainment
  - Clean the house
- Implied Tasks
  - Decide what recipes to use
    - Include vegetarian recipe
  - Make a grocery list
  - Go to the grocery store
  - Create dinner music playlist
  - Gather party games

- Constraints & Restraints
  - Has to end before baby's bath time
  - Can't serve alcohol to minors
- Assumptions & Contingencies
  - All guests will be omnivores
    - Have vegetarian option
- Assessment Criteria
  - Guests plates are cleaned
  - Guests joking and laughing
  - Guests are sad when it's babies bath time and have to leave

# Challenges

- Corporate anti-bodies to change
- Lack of qualified planners
- Egotism in the debrief

## Takeaways

- PBED may seem daunting at first, but you will get better over time
- Don't fight the process, trust in it
- If you repeat a problem even with implementing an FA, then:
  - You did not find the true root cause or FA was not sufficient
- Archive your previous executions & previous LLs
- It's an operational rhythm... more importantly, it's a lifestyle / culture
- The magic is in the debrief

#### Questions?