Composing HPE Synergy Resources (TDC 200) HQ7G8S

This course will focus on Composing resources from a deployed HPE Synergy environment. Participants will work with a configured HPE Synergy environment. Topics focus on firmware management best practices, HPE OneView monitoring tools, and composing HPE Synergy resources with Ansible Playbooks. The day will consist of 30% lecture and 70% hands on lab exercises.

Audience
HPE Synergy Administrators, Architects, Engineers interested in techniques for firmware management, monitoring and composing HPE Synergy resources.

Course Objectives
- Plan for Monitoring Ecosystem available tools for organization, which tool for each team.
- Composability using Ansible Playbooks with deployed HPE Synergy environment.
- Work with Composable Firmware Management to plan and update HPE Synergy environment.

Prerequisites
H0LN3S HPE Synergy Administration or equivalent knowledge.

Course Outline
- Monitoring Ecosystem
  - HPE OneView Dashboard, HPE Global Dashboard
  - HPE OneView for Microsoft|VMware
  - HPE ILO, HPE ILO Accelerator Pack
  - HPE Remote Support, HPE InfoSight
Course data sheet

- **Composability tools**
  - Composable vs Wire Once an Deploy, Blade Rip and Replace
  - What's on GitHUB, Basics with PowerShell
  - Composing with Ansible Playbooks

- **Composable Firmware Management**
  - Staging Firmware and drivers
  - Custom SPP in OneView
  - Firmware Dashboard, Reports
  - Firmware updates
  - Compliance and validation

**Labs:**

- **Lab 1: Monitoring Ecosystem**
  - HPE OneView Dashboard, HPE Global Dashboard
  - HPE InfoSight

- **Lab 2: Composability tools**
  - What's on GitHUB, Basics with PowerShell
  - Composing HPE Synergy resources with Ansible Playbooks
  - Playbook exercises:
    - Server Profile (SP) from Server Profile Template (SPT)
    - Deploy SP with hardware
    - Create basic SPT, set SPT boot mode, Boot, C
    - Power off/on hardware
    - Set SPT connections
    - Deploy SP with connections
    - Set SPT with firmware
    - Set Local storage
    - Set SPT with SAN storage
    - Set SPT BIOS values

- **Lab 3: Firmware Management**
  - Staging Firmware and drivers
  - Create Custom SPP in OneView
  - Review Firmware Dashboard, Reports
  - Firmware updates checking Compliance and validation

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