ACIOT - APPLICATION CENTRIC INFRASTRUCTURE ADMINISTRATION, OPERATIONS AND TROUBLESHOOTING

Course Code: 100481

Develop essential skills for administrating and troubleshooting an Application Centric Infrastructure Fabric to include Tenants, VRFs, Bridge Domains, Subnets, EPGs, VMM Integration and Application Profiles for Application connectivity and Routed External L3 connectivity. Identify faults and apply best-practice Application Centric Infrastructure troubleshooting tools. Newly updated to Application Policy Infrastructure Controller version 4.

Some of the characteristic challenges that you may experience with a classic data center include time-consuming application deployment, error-prone switch-by-switch configuration, and problematic application performance monitoring. Application Centric Infrastructure Application Centric Infrastructure helps resolve these typical data center issues by significantly reducing customer application deployment time and improving IT alignment with business objectives and policy requirements.

In this course, you will practice developing essential skills for administrating and troubleshooting a Application Centric Infrastructure Fabric. You will discover how data center components corresponding to Application Centric Infrastructure Fabric components, and you will gain a deeper knowledge of the operation of a Tenants, EPGs, Bridge

Domains, VRFs, AEPs, and many other features of Application Centric Infrastructure through the process of configuring and administrating an Application Centric Infrastructure Fabric. Hands-on labs will guide you through steps to set up switches, group devices by application, apply policies at an application level, and give application level visibility for troubleshooting.

You will use best-practice Application Centric Infrastructure troubleshooting tools, such as Visore, API Inspector, Troubleshooting Wizard, Faults/Events/Audit Logs and various CLI commands in line with the OSI model, an established troubleshooting methodology, all to identify problems that impact fabric-wide connectivity. You will use the Application Policy Infrastructure Controller CLI and

GUI to expose misconfigurations that trigger fault messages and practice applying GUI and CLI tools to resolve various troubleshooting scenarios.

By the end of this class, you will have a strong fundamental understanding to enable you to administer, configure and troubleshoot Application Centric Infrastructure in your production environment.

What You'll Learn

- Discover Application Centric Infrastructure Fabric Components
- Create a Tenant
- Create Tenant components; VRFs, BDs, ANPs, EPGs
- Create Fabric Access Policies and Profiles
- Create an Application Profile
- Create a VMM domain
- Create Contracts and Filters
- Confirm functionality of a fabric
- Apply a basic troubleshooting methodology
- Use CLI troubleshooting tools to discover misconfigurations
- View Faults/Events/Audit Logs in the Application Policy Infrastructure Controller GUI
- Use Visore to query MOs
- Use best-practice troubleshooting tools to troubleshoot Port, Interface, VLAN, L3 OUT, Contracts, Filters and Faults

Who Needs to Attend

- Team leads
- Administrators in a technical role
- Field engineers
- Support engineers
- Server administrators
- Network administrators
- Storage administrators
- Network Operators
- Technical Managers
- Security engineers

Prerequisites

No required prerequisite courses.   Ideally basic understanding of routing and switching as well as a fundamental understanding of server virtualization with virtual machines.

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