

Production Environment Documentation:

• Hardware:

• Servers:

- Server 1: Dell PowerEdge R740, 2x Intel Xeon Gold 6130, 128GB RAM, 2TB SSD
- Server 2: HP ProLiant DL360 Gen10, 2x Intel Xeon Silver 4110, 64GB RAM, 4x 1TB HDD (RAID 5)

• Network Devices:

- Cisco Catalyst 3850 Series Switch
- Cisco ASA 5506-X Firewall

• Storage:

- NetApp FAS2650, 24TB usable capacity, RAID-DP
- EMC VNX5300, 20TB usable capacity, RAID 5

• Software:

• Operating System:

- Server 1: Windows Server 2019 Datacenter Edition
- Server 2: CentOS Linux 7.5

• Web Server:

- Apache 2.4.41

• Database:

- MySQL 8.0.21

• Application:

- Custom Java-based CRM System, Version 3.2.0

• Configurations:

• Web Server Configuration:

• Virtual Hosts:

- Domain: www.example.com, DocumentRoot: /var/www/html

• Database Configuration:

- InnoDB Buffer Pool Size: 16GB, Max Connections: 200

• Network Settings:

• IP Addresses:

• Server 1:

- LAN: 192.168.1.10
- WAN: 203.0.113.5

• Server 2:

- LAN: 192.168.1.11

• Subnet Mask: 255.255.255.0

• Gateway: 192.168.1.1

• DNS Servers:

- Primary: 8.8.8.8
- Secondary: 8.8.4.4

This documentation provides a detailed overview of the hardware, software, configurations, and network settings in the production environment. It serves as a reference for replicating this environment in a staging environment for testing and validation.

Staging Environment Configuration:

Hardware:

Servers:

- Staging Server 1:
 - Model: Dell PowerEdge R740
 - CPU: 2x Intel Xeon Gold 6130
 - RAM: 128GB
 - Storage: 2TB SSD
- Staging Server 2:
 - Model: HP ProLiant DL360 Gen10
 - CPU: 2x Intel Xeon Silver 4110
 - RAM: 64GB
 - Storage: 4x 1TB HDD (RAID 5)

Network Devices:

- Cisco Catalyst 3850 Series Switch (Replicated)
- Cisco ASA 5506-X Firewall (Replicated)

Storage:

- NetApp FAS2650 (Replicated)
 - Capacity: 24TB usable
 - RAID Configuration: RAID-DP
- EMC VNX5300 (Replicated)
 - Capacity: 20TB usable
 - RAID Configuration: RAID 5

Software:

Operating System:

- Staging Server 1: Windows Server 2019 Datacenter Edition (Matched)
- Staging Server 2: CentOS Linux 7.5 (Matched)

Web Server:

- Apache 2.4.41 (Matched)

Database:

- MySQL 8.0.21 (Matched)

Application:

- Custom Java-based CRM System, Version 3.2.0 (Matched)

Configurations:

Web Server Configuration:

- Virtual Host:
 - Domain: www.example.com
 - DocumentRoot: /var/www/html

Database Configuration:

- InnoDB Buffer Pool Size: 16GB
- Max Connections: 200

Network Settings:

- Staging Server 1:
 - LAN: 192.168.1.20
 - WAN: 203.0.113.15
- Staging Server 2:
 - LAN: 192.168.1.21
- Subnet Mask: 255.255.255.0
- Gateway: 192.168.1.1
- DNS Servers:
 - Primary: 8.8.8.8
 - Secondary: 8.8.4.4

Additional Considerations:

- **Security Measures:**
 - Replicate security measures, including firewall rules, encryption, and access controls, as in the production environment.
- **Load Balancers:**
 - If load balancing is used in production, replicate the same setup in staging.
- **Monitoring Tools:**
 - Install the same monitoring tools used in production for performance tracking.

By mirroring the production environment in this way, you'll create a staging environment suitable for rigorous testing and validation.