VMware Validated Design Update 5.0

- Updated BOM
  - Cloud Builder 1.0
  - vSphere 6.7 U1
  - vSAN 6.7 U1
  - NSX 6.4.4
  - vRLCM 2.0.0 patch 2
  - vROps 7
  - vRLi 4.7
  - vRA 7.5
    - Windows Server 2016 Support
    - External DB Support for Microsoft SQL Server 2017
  - vRB 7.5
  - SRM 8.1.1
    - Windows Server 2016 Support
- Cloud Builder Process
  - Deploy Appliance
  - Prep
    - Login to appliance using winSCP
      - admin username
      - upload bundle location
        - /mnt/hgfs
      - CertGenVVD location
        - /opt/vmware/vvd/certificates
    - Mount bundle Process
      - Login Using SSH
      - run /opt/vmware/vvd/cloud-builder/install/reconfigure.sh
  - Deploy
    - Login to web portal
      - https://<fqdn>
      - admin username
    - Upload prepared config file using GUI
    - Generate JSON files
      - Management
      - Workload
    - Validate Files
      - Logs : /opt/vmware/sddc-support/cloud_admin_tools/logs/JsonGenerator.log
      - Logs : /opt/vmware/sddc-support/cloud_admin_tools/logs/PlatformAudit.log
      - Web portal
        - upload JSON Files
        - Click validate
    - Run deploy process
      - Management cluster
        - Select validated file
      - Logs
        - opt/vmware/bringup/logs/vcf-bringup-debug.log
        - /opt/vmware/bringup/logs/vcf-bringup.log
  - Post Deploy Tasks
    - Base VI
      - Host profiles
      - dFW lock down
      - PSC DNS records
    - vRealize
      - OPS
      - vRA
- Overview
  - Faster greenfield to SDDC
    - Latest supported BOM
    - Uses a VVD Software Bundle
      - Single download
      - Import to Cloud builder
      - Deploy
      - Lifecycle
        - VUM
        - vRSLCM
  - Automated deployment approach
    - Uses Cloud Builder Virtual Appliance and JSON
    - Prepare Input parameter spreadsheet files for region
      - Pre-configured with design versions
        - Can be changed for specfic deployment
      - Uses Excel spreadsheet
      - Used to convert to JSON in Cloud Builder
- Planning
  - Design Thoughts
    - Review VVD use cases
      - Select the relevent use case for business requirement
    - Use Supported servers
      - Ready nodes
      - Sizing
        - Number of regions
        - Management Cluster per region
          - 4 vSAN Ready Nodes
        - Number of Workload domains
          - Uses Min 4 Supported servers
          - Consolidated
            - Compute
            - Edge
          - Compute only
    - VVD is based on vSAN
      - Workload domains can use any supported storage solution if required
        - Capacity
        - IOPS
        - Latency
  - External Requirements for planning pre-deployment
    - Windows Jump Box
      - External network
      - Management network
    - Services
      - Active directory
        - Service Accounts
        - Domain config
      - DHCP
        - VXLAN VTEPs range
      - DNS
        - Forward / Reverse
        - Long / Short name
      - NTP
        - CNAME
      - SMTP / Mail Relay
        - Status and alerts
        - Open relay Config in design
        - Limited from known endpoints
      - sFTP
        - NSX Back Up
      - Certificate Authority
      - NFS
        - Secondary Storage only
        - Management domain
          - Logs
          - Backups
    - Networking
      - IGMP Snooping
      - Jumbo Frames
      - BGP AS
      - Logical vLANS for traffic types

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