**Project #1 – Server Installation (Chp1 & 2)**

Windows Server 2012 R2 is available in Four Editions. Define the Editions and their features below:

|  |  |  |
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| **Editions** | **Supported Features** | **Unsupported Features** |
| **Datacenter** | Hyper-V, Unlimited VMs, 4TB of RAM, 64 CPUs, 64 Cluster Nodes |  |
| **Standard** | Same as Data Center | Limited to 2 VMs |
| **Essentials** | No CALs | Less than 25 Users |
| **Foundation** | No CALs | OEM Only, Less than 25 Users No Hyper-V |

**Define the 11 Server Roles in 2012 & Brief Description**

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| --- | --- |
| **Role** | **Description** |
| Active Directory  Certificate Services | Creates and manages user certificates |
| AD Domain Services | Enables the domain controller role of the server |
| DHCP | Controls network configuration for connected devices. |
| DNS | Controls hostname resolution for internet computers |
| File & Storage Servieces | Controls shared storage between host and guest OSs |
| Hyper-V | A hypervisor that hosts and controls virtual machines. |
| Network Policy & Access Services | Controls access policies including authentication and authorization |
| Print Services | Hosts printers and directs clients based on recognizable names. |
| Server Update | Manage, automate and distribute server updates. |
| Deployment | Expedite the process of installing uniformly configured windows installations across an organization |
| Web Server IIS | Host internal and external web sites. |

**Name the 7 Features in Server 2012 & Brief Description**

|  |  |
| --- | --- |
| **Features** | **Brief Description** |
| Failover Clustering | Cluster computer w/ backups to prevent outages in the event of failure |
| Group Policy | Minimalized GUI Includes Server manager, MMC and limited Control Panel |
| Network Load Balancing | Manage servers as a virtual cluster. |
| BitLocker Encryption | Full volume encryption services. |
| Remote Assistance | Allows server to offer and accept requests for assistance. |
| SMTP | Simple Mail Transfer Protocol series |
| Backup Server | Allows for backup and recovery through CLI or Snap-In console |

**Describe the following Server 2012 Installation Options**

|  |  |
| --- | --- |
| **Option** | **Description** |
| Server Core | Command line or “Headless” server installation, most secure and stable. |
| Minimal Server Interface | Some GUI tools, no GUI shell, IE unavailable, more secure |
| Server with a GUI | Full suite of GUI tools provides easiest administration. More security patches and greater usage of hardware resources. |

List the 4 Tasks you should perform immediately following Server Core Installation:

1. Name the computer
2. Set Date/Time and Time Zone
3. Assign a static IP
4. Join server to the domain

Please upload your completed assignment in moodle to receive credit.