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Administrative information systems

Go to content Network system administrators provide important technical support to the company. Whether it's advanced technology or back-office bank operations, the network often monitors the pace of work and system administrators are critical personnel. If the network is down, operations may stop. Ensuring your pay scale is competitive keeps your administration of network systems consistent and well stocked. While wages earned by the network system administrator depend on region level and education, the average wage for this industry is $69,160, according to the Bureau of Labor Statistics in May 2010. The top 10 percent of salary is over $108,090 and the lowest 10 percent is $42,400. Network system administrators typically have at least a bachelor's degree. For those just starting out, an associate degree or technical certification may be sufficient, according to the BLS. If you achieve certification, starting salaries range from $26,000 to $30,000 annually. The field is dynamic, however, so many network system administrators continue their education throughout their careers by reviewing new types of networks, computers and servers. Network system administrators can also certify specific software or supplier hardware, especially if it makes them more competitive in their field. For some network system administrators, as a rule, those working on large-scale implementations need a master's degree. These positions tend to pay more, starting with the low $70,000s. the area in which you work affects your salary. As of May 2010, the median wage reported by BLS for network system administrators working in system development is about $74,000 annually. Those supporting financial and insurance companies are paid a median salary of about $72,000, and manufacturing network system administrators are paid about $67,000 annually. Health and education are at the lower end, paying a median salary of $64,000 and $59,000 respectively. Network system administrators typically work full-time, with more than 90 percent of positions reported as full-time in May 2010, according to the BLS. In addition, due to the crucial need to maintain the operation of networks, network system administrators can work long days and may need to respond to emergencies after normal working hours. The scope of network system administration is growing faster than the rate of the average labor market, according to BLS. The field is expected to grow 28 percent faster than average between 2010 and 2020. The need for efficient and secure networks is driving much of this growth, and increasingly complex network configurations that require specialized training and attention. About the author Carolyn Williams began to write professionally and edit more than 20 years ago. Her work appears on the Sites. An avid traveler, swimmer and golf enthusiast, Williams has a Bachelor of Arts english at Mills College and a master's in business administration at St. Mary's College in California. When it comes to managing computer systems, whether in office settings, on campus or in a corporate data center, there is a long list of tools and technologies that SysAdmins needs to master. There are numerous certificates can help test knowledge and skills in these areas. In addition to server and client configuration and maintenance, many system administrators need to understand access controls, network services, and application resource requirements. They often work with directory and name services, networks, database services, web apps, and desktop applications, email, and many other issues. The meaning of all these different system administrator roles and related certificates is not an easy task. After studying various credentials, we've dedicated a list of our five favorite system administrator certificates for 2019.The following chart shows the results of an informal job search we've conducted that gives you an idea of the relative frequency at which our top five certificates appear in actual job publications. While all certificates are popular, CompTIA Server+ stands out as a clear favorite. Job board search results (in alphabetical order, certification)* Certification Just Hired really LinkedIn Jobs Linkup Total MCSE: Cloud Platform and Infrastructure (Microsoft) 112 247 253 151 773 Oracle Linux System Administrator (Oracle) 311 377 124 304 1116 RHCE (Red Hat) 507 507 62 5,864 286 2,282 Server+ (CompTIA) 98,111 165 25,399 VCP6.5-DCV (VMware)* 219 275 169 192,855 *When searching for data center credentials , we found most of the job descriptions did not point to a specific version. While employers tend to pay SysAdmins less than some of their IT peers, such as network engineers and data architects, a career in system management is still worth continuing. SimplyHired reports $77,296 as a national average salary for SysAdmins, ranging from $49,746 to $120,102. Indeed.com averages $75,967 for simple vanilla, and $88,032 for senior system administrators. MCSE: Microsoft Certified Solutions Expert Certified Solutions (MCSE) certification has long governed the hearts and minds of those working on Microsoft-based systems, servers, and clouds. MCSE certifications focus on the latest technologies for business applications, cloud infrastructure, data management and analytics, mobility and productivity. But when it comes to certifying system administration in general, the brightest lights are those that address Windows Server at the enterprise and server admin level. Although these credentials are not all use by your system administrator in their descriptions, they well fall within the roles and responsibilities of system administration of jobs. They also have a high demand for job postings and classified job ads. MCSE: The cloud platform and infrastructure target IT professionals seeking to advance careers such as information security analysts or computer support professionals. Those who receive certification will find that MCSE: Cloud Platform and Infrastructure credentials are designed to test the skills needed to effectively run a data center, including networking, storage, system management, virtualization and identity management. Note: Microsoft Certified Solutions (MCSA) is Microsoft's prevailing mid-range IT certification. It covers most administrative work roles, including desktop and server-level system administration, and more specialized work roles that include SQL Server and Office 365. MCSA: The cloud platform is the gateway certification that is submitted to these MCSE certificates. System administration candidates may also want to look closely at MCSE: Performance credentials that have nearly as many hits on job boards as MCSE: Cloud Platform and Infrastructure cert. MCSE: Performance focuses on Microsoft Exchange, SharePoint or Skype for Business. Because communication systems and services of all kinds are so important for business, these are good areas for beginners and practicing system administrators to specialize in. Microsoft's certification program underwent significant changes in September 2016. Once you earn one of the latest MCSE credentials, you don't have to recertify for three years as you did before. However, by taking an optional exam each calendar year, you add an entry to your transcript indicating your commitment to stay up to date with technology and expand your skill set. MCSE: Cloud Platform and Infrastructure Facts and Figures Certification Name Microsoft Certified Solutions Expert (MCSE): Cloud Platform and Infrastructure Prerequisites & required courses Any of the following MCSAs is required: MCSA: Windows Server 2016 MCSA: MCSA cloud platform: Linux on Azure MCSA: Windows Server 2012 exam count One additional selective exam is required to earn this MCSE. Valid electives include: 70-532 Microsoft Azure Solutions Development 70-533 Implementation of Microsoft Azure Infrastructure Solution (exam retires December 31, 2018) 70-473 Design and implement cloud solutions data platform 70-475 Development and implementation of big data analytics solutions 70-744 Security Assurance Windows Server 2016 70-745 Software implementation Defined DataCenter 70-413 Design and implementation of server infrastructure 70-414 Implementation of advanced server infrastructure 70-537 and exploit hybrid cloud with Microsoft Azure Stack (shortly) candidates are encouraged to check the certification webpage webpage the latest list of qualification exams. Exam cost $165 per U.S. exam URL Self-Study Materials Visit certification website and Microsoft Learning for practical tests, free online learning, official Microsoft classroom curriculum and on-demand course offers, books, online resources and many others. Candidates will find links to learning resources, including practical exams, books, videos and formal training on the exam's web page. Oracle's LinuxAlthough system administrator is known for its products and database solutions, Oracle also has its own enterprise-focused Linux distribution and is designed to support cloud environments. In fact, Oracle Linux is optimized for various Oracle products and platforms, such as Oracle Exadata Database Machine, Oracle Exalytics In-Memory Machine, Oracle Exalogic Elastic Cloud and Oracle Database Appliance.To support Oracle Linux, the company offers Oracle Linux system administrator certification at associate and professional levels. One Oracle Linux certified credential implementation specialist is also offered. We focus on the Oracle Certified Professional (OCP) version in this section. OCP Oracle Linux system administrator certification, currently in version 6 (although version 7 should be coming soon), covers many details. Candidates should be well versed in btrfs file system, control groups, Linux containers, advanced storage administration methods, Oracle cluster management and package management. Certification also tests knowledge of dump analysis, dynamic tracing, network configuration, and security, and many others. Oracle Linux's OCP system administrator certification requires that candidates first obtain Oracle Certified Associate (OCA) Oracle Linux 5 and 6 System Administrator certification and pass one exam. SysAdmins, which support Oracle Solaris, may be interested in certifying the oracle Solaris system administrator that Oracle offers at an associate and professional level. Oracle also offers multiple server certificates for the SPARC and Fujitsu servers. Oracle Linux System Administrator Facts and FiguresRHCE: Red hat certified engineer In the kingdom of linux system administrator certificates, Red Hat certificates are really allocated. Red Hat certificates of more senior level are particularly popular among IT professionals as well as employers who hire them. Those with Red Hat Certified Engineer (RHCE) credentials qualify for positions such as senior Linux administrator, UNIX senior administrator, senior system engineer, infrastructure systems engineer, IT analyst and the like. RHCE is seen as high-level credentials that are not easy to obtain. Candidates first obtain the credentials of Red Hat Certified System Administrator (RHCSA), and then transfer three and hour, practical, performance-based exam, which is intense and demanding. Those earning RHCE can go on to earn Red Hat Certified Architect (RHCA) in infrastructure credentials. The current RHCE exam is based on Red Hat Enterprise Linux (RHEL) 7. RHCE certification is valid for three years from the date of certification achievement. To maintain certification, the credential holder must pass any RHCA exam or pass the RHCE certification exam again before the end of the three-year period. Note: In October 2018, IBM announced that it was buying Red Hat for a princely sum of $34 billion. It's too early to say what impact this could have on Red Hat certification proposals, if any. RHCE Facts and Figures Certification Name Red Hat Certified Engineer (RHCE) Prerequisites & Required Red Hat Certified System Administrator (RHCSA) certification courses (not to be on the same version of Red Hat Enterprise Linux). RHCSA requires one exam: EX200 — Red Hat Certified System Administrator (RHCSA). Note: Courses recommended but not required Number of exams One exam: EX300 - Red Hat Certified Engineer (RHCE) exam, 3.5 hours Exam cost $400 (RHCE exam only) URL Self-study materials Red Hat Training offers several learning options including class, virtual, online, video and private on-site. Red Hat's training subscription offers online and video courses, including cloud labs, in basic and standard subscriptions. Prices vary depending on geography. U.S. candidates can expect to pay $5,500 (or 19 training units) for a baseline and $7,000 (or 24 training units) for a standard level. CompTIA Server+CompTIA offers a long list of entry-level certificates such as A+ for hardware technicians, Network+ for network administrators and Security+ for security professionals, all of whom are highly regarded in the computing industry. CompTIA Server+ certification is no exception. Companies such as Intel, HP, Dell, Lenovo, Xerox and Microsoft, as well as the U.S. Department of Defense, recommend or require that their server technicians earn CompTIA Server+. The Server+ certification exam focuses on basic server-related topics that are neutral, including server hardware, operating systems, storage systems, networks, IT environment (documentation, diagrams, and best practices), security recovery and disaster recovery, virtualization, and troubleshooting. Server+ credentials, as well as sufficient experience, are a great asset for individuals seeking the position of server or network administrator, system engineer, or website administrator. You can also see it as a stepping stone to more targeted certification, such as Microsoft Certified Associate (MCSA) or Red Hat Certified System Administrator (RHCSA). Server+ certification requires one exam, exam, CompTIA recommends that candidates have at least 18 months of experience and A+ certification before taking the exam. CompTIA Server+ Facts and Figures Certification Name CompTIA Server+ Required Courses Required: None recommended: CompTIA A+ certification plus 18 to 24 months of ZLB experience One exam: SK0-004 (90 minutes, 100 multiple-choice questions, 750 on the scale of 100-900 needed to pass) Exam cost $319. Buy vouchers through CompTIA Marketplace. Exam administered by Pearson VUE. URL URLs for self-study of materials Links to practical issues, exam goals, e-books and other educational resources available on the certification web page. Packages of exam training manuals, including e-books and CertMaster practices, are available on the CompTIA market. VCP6-DCV: VMware Certified Professional 6 – Data Center VirtualizationSpeaking VMware certificate family must have credentials for HR professionals interested in virtualization. Offering a comprehensive certification program that covers all skill levels, VMware credentials are recognized worldwide as the best in the class. The latest incarnation of the VMware vSphere product is version 6.5. VMware currently offers two credentials that target vSphere V6.5 users: VMware Certified Professional 6.5 - Virtualization Data Center and VMware Certified Advanced Professional 6.5 - Data Virtualization Center (Design and Deployment). A certified design expert, VMware (VCDX-DCV), is expected to be available soon. Although version 6.5 is the latest version of the vSphere product, interested candidates can still certify on vSphere V. 6. Certified VMware Professional 6 - Data Center Virtualization (VCP6-DCV) is one of VMware's most popular credentials with more than 100,000 certified credential holders. VCP6-DCV trains credential holders for more advanced certifications, including certified advanced professional VMware (VCAP6-DCV) and pinnacle certificate certified by design expert VMware (VCDX-DCV). For this article, we decided to focus on the requirements for VCP6.5 -DCV because it is based on the latest version of vSphere. Training is required for non-credential holders seeking to obtain VCP6-DCV. VMware offers a variety of learning options to meet the prerequisites of learning: self-driving pace (on demand), live online and live in a classroom, some of which include virtual labs. Those with valid VCP5-DCV or VCP6-DCV credentials only need to pass a delta exam to obtain credentials. VCP6.5-DCV Facts and Figures Certification Name VMware Certified Professional 6.5 - Data Virtualization Center (VCP6.5-DCV) Prerequisites & Required Path 1 courses (non-VCP credentials Get vSphere 6.5 experience, attend the required training course, pass either vSphere 6 or 6.5 6.5 exam and pass the current VCP6.5-DCV Path 2 exam (active VCP5-DCV or VCP6-DCV owners credentials): Get the vSphere 6.5 experience, pass the VCP6.5-DCV or VCP6.5-DCV Delta exam. Training is recommended, but not necessary. Path 3 (Expired VCP-DCV): Get vSphere 6.5 experience, complete the required training course, take the vSphere 6 or 6.5 Foundations exam and take the current VCP6.5-DCV Path 4 exam (active VCP 6, 6.5, or 7 exam in another track): Gain experience vSphere 6.5 and take the VCP6.5-DCV exam. Training is recommended, but not necessary. For a list of current approved training courses, see the VCP6.5-DCV webpage. Number of exams One or two exams depending on the certification path. Foundation exams: basic exam vSphere 6, 2V0-620, 115 minutes, 65 questions vSphere 6.5 Exam Basics, 2V0-602, 105 minutes, 70 questions VMware certified professional 6.5 – Data Center Virtualization Exams: VMware Certified Professional 6.5 – Virtualization Data Center, 2V0-622, 105 minutes, 70 Questions VMware Certified Professional 6.5 – Delta Virtualization Center Date Center, 2V0-622D, 106 Minutes, 70 Questions Exam Cost vSphere Foundations Exam (V6 or V6.5), $125 VMware Certified Professional 6.5 - Exam Believe Data Center Virtualization, $250 VMware Certified Professional 6.5 – Delta Exam Virtualization Center Date Center, $250 URL VCP6.5-DCV: Self-Learning Materials Links to Exam Guidance, Learning and Practice Exam (if Available) appear on each (see tab How to Prepare). The VMware training area offers exam prep subscriptions. Numerous VCP6-DCV training materials are available through Amazon.com. MeasureUp offers VCP6-DCV practical tests and practical laboratories. Beyond the Top 5: More SysAdmin CertificationsBeyond five system administrator certificates presented in this article, there are many other certification programs that can assist in further career and professional development of HR professionals working in system management. It makes sense to explore the myriad programs available to providers available to those who work with systems from companies such as Brocade, Dell EMC, HPE, IBM, NetApp, Symantec, etc. Many of them play in key areas of specialty systems such as storage, security or virtualization, while others offer a wide range of platforms for these and other technological areas. Here are some examples: IBM Certified System Administrator (and Secondary Administrator) to deploy WebSphere, AIX, DB2, Connectivity, Sametime, Lotus Notes, Informix, IBM i, and more NetApp Certified Data Administrator (NCDA) targeting professionals who manage NetApp storage controllers running the ONTAP operating system Certified System Administrator aimed at professionals who are adept at setting up, configuring, and ServiceNow System Management Similarly, neutral supplier certification programs also offer a variety of interesting and potentially valuable credentials. For example, LPIC LPI certificates, which have been in our top five lists for several years, are well known and widely recognized in IT stores and operations that depend on Linux servers to handle their workloads. It's best to think of our top five certificates as a good place to start, while also realizing that there are plenty of other options to consider as well. Well.