System administrator

Upkeep обслуживание, ремонт, поддержание

Reliable безотказный

Outlook перспективы

Healthy процветающий

Outage перебой, сбой

Scripting сценарии

Recover восстановить

Implement определение
effectively implement – эффективно осуществлять
implement the plan – осуществить задуманное
implement the resolution – выполнить резолюцию

grasp понимание

intrusion внедрение

puppet
A movable model of a person or animal that is typically moved
either by strings controlled from above or by a hand inside it.

Shell оболочка

A sysadmin must have…

Must is a modal verb
MUST

1. To express obligation or duty
This also refers to laws and regulations.

I must memorize all of these rules about modal verbs.
You must wear a seatbelt at all times.

2. To emphasize the necessity of something

emphasize
['emfəsaɪz]
гл.; = emphasise
1) придавать особое значение; подчёркивать, акцентировать
She emphasized its importance to me. — Она подчеркнула, как это важно для меня.

Humans must have drinking water at least every two days.
You must give up smoking, it's bad for you.
We must have a special permit to camp in the national park.
You must study the last two chapters before the test.
Plants must have light and water to grow.
You must drive carefully.

3. Deduction - Sure that something is true (Certainty)
Deduction
логический вывод (процедура получения умозаключения), дедукция; вывод, заключение
illogical deduction — нелогичный вывод
logical deduction — логичный вывод
a deduction about — заключение о
to make a deduction — делать вывод, заключение

We use this when we don't know but we are certain that it is true (based on evidence).

Look at all of that snow. It must be really cold outside.
The ground was wet this morning. It must have rained last night.
Dinosaurs were very big, they must have eaten a lot.
It's five in the morning and you still haven't gone to bed?
You must be tired!
Jack must be home. I heard a noise coming from his room.

4. Expresses positive logical assumptions (Must + have + past participle)
assumption допущение

That must have been my mother calling me last night, nobody else has my number.
He must have won the lottery with the new house and car he has just bought.
She must have been at home - her car was there.

5. A strong recommendation
Something that is highly recommended (stronger than using should)
We really must get together for dinner sometimes.
You must see the new Peter Jackson movie, it's fantastic.
The ice cream here is delicious. You must try some.

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A system administrator, or sysadmin, is a person who is responsible for the upkeep, configuration, and reliable operation of computer systems; especially multi-user computers, such as servers.

The role of the systems administrator is strong and the job's outlook is healthy, with the Bureau of Labor Statistics predicting growth of about 11.7 percent between 2012 and 2022. That should create approximately 42,900 new positions.

The person who is responsible for setting up and maintaining the system or server is called as the system administrator. System administrators may be members of an information technology department. Most of the following discussion also applies to network and Windows system admins.

Duties of a system administrator

The duties of a system administrator are wide-ranging, and vary widely from one organization to another. Sysadmins are usually charged with installing, supporting, and maintaining servers or other computer systems, and planning for and responding to service outages and other problems.

Other duties may include scripting or light programming, project management for systems-related projects.

The system administrator is responsible for following things:
User administration (setup and maintaining account)
Maintaining system
Verify that peripherals are working properly
Quickly arrange repair for hardware in occasion of hardware failure
Monitor system performance
Create file systems
Install software
Create a backup and recover policy

Monitor network communication
Update system as soon as new version of OS and application software comes out
Implement the policies for the use of the computer system and network

Setup security policies for users. A sysadmin must have a strong grasp of computer security (e.g. firewalls and intrusion detection

systems)
Documentation in form of internal wiki
Password and identity management

Cloud computing and sysadmin
Cloud computing is nothing but a large number of computers connected through the Internet/Wan. Cloud computing is now part of technology and sysadmin must lean:
Automation software such as puppet, chef, etc.
Cloud infrastructure such as AWS, Openstack etc.
Network services in cloud such as Content delivery networks (Akamai, CloudFront etc) and DNS servers.
Source control
Designing best practices for backups, and whole infrastructure.

What is so special about the system administrator account?
The root account has full (unrestricted) access, so he/she can do anything with system. For example, root can remove critical system files. In addition, there is no way you can recover file except using tape backup or disk based backup systems.
Many tasks for system administration can be automated using Perl/Python or shell scripts. For example:

Create new users
Resetting user passwords
Lock/unlock user accounts
Monitor server security
Monitor special services etc
Most important skill to a system administrator
Problem solving, period. This can some time lead into all sorts of constraints and stress. When workstation or server goes down, you are called to solve the problem. You should able to quickly and correctly diagnose the problem. You must figure out what is wrong and how best it can be fixed in small amount of time.

System administrators are not…
Cookie cutting software engineers.
Developers.

What is The Role Of the System Administrator?

Can you explain the role of the system administrator?

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